



CMP 8.20

SOAP Web Services Semantics Guide

Version 1.0

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Version Control

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Terms Used in this Document

For definitions and explanations of the terms, abbreviations and acronyms used in this document, please see the *CMP Glossary* document.

1.0 SOAP Web Services Technical Overview

The purpose of this overview is to explain the MDS Simple Object Access Protocol (SOAP) web services platform in terms of technology, and to describe web services validation, error handling, authentication and audit logs.



In addition to the SOAP consumer web services, there is also a set of Product Catalogue web services (known as RESTful web services) which expose CMP configuration data. For more information, see the *RESTful Web Services API Guide*.

This section is not an API programming reference; it is aimed at development managers and developers interested in accessing Converged Monetisation Platform (CMP) functionality from external client software.

For supplemental information relating to the CMP web service schema that cannot be captured in the schema definitions (WSDLs), see the [Web Services Interface Semantics](#) section.

1.1 MDS Global Web Services

Web services provide a standard response/request mechanism for data interchange between computer systems that is independent of programming language and runtime environment. MDS Global web services enable client systems to manage their customer's telecommunications requirements while also supplying those customers with the capability to manage their own requirements, via a series of e-services.

The Converged Monetisation Platform (CMP) application is integrated with client systems by using a number of CMP consumer web services that can be called from internal and external web-based applications belonging to the client, such as an online shop or from inside retail outlets.

CMP web services reflect many of the customer care activities that can be performed manually in CMP. Generally, each CMP web service is analogous to a CMP screen or wizard process - creating a new agreement or processing a payment, for example.

In addition to consumer web services, MDS Global also provides a set Product Catalogue web services - RESTful web services - which expose CMP configuration data.

MDS Global web services are described using Web Services Definition Language (WSDL). The service operations are defined in terms of the data sent and received, and any checked faults encountered during the operation. The service descriptions must be bound to a web service port and a communication protocol. The service definitions are

separate from the binding. This allows re-use of the web service definition to use a transport protocol other than HTTP. The binding WSDL imports the service definition WSDL.

MDS Global web services are usually made available to the customer in the form of a zip file containing the WSDL files and associated XML schemas. There are three types of files:

- Data Type definitions
 - MDS Global web services are defined in XML Schema Definitions (XSDs), which are divided into two sets:
 - Services XSDs

The first set of schemas divide the API into each operation of the web services and any API-specific data types. Service schemas use the naming convention `webservice>service.xsd`.
 - Data type XSDs

The second set of XSDs are referenced by the service XSDs and model the payload data types, which map to CMP concepts. The services and data type XSDs share the same directory structure.
- Abstract definitions

The web service definition WSDL exists alongside the binding WSDL and defines each operation in terms of the following:

 - The web service operations that exist in the web service port
 - The messages (request and response) used by the web service operations
 - The data types that describe the message content
- Specific service bindings

DS web service binding WSDL files are identified using the naming convention `<webservice>service.wsdl`.

1. 1. 1 MDS Global Web Services WSDLs

This documentation describes every available CMP Product web service within the following WSDLs:

- Account Service
- Address Service
- Agreement Service
- Billing Service
- Composite Service
- Corporate Service
- Features Service
- Financials Service
- Group Service

- Network Provisioning Status
- Notification Service
- Order Service
- Payment Service
- Porting Service
- Product Catalogue Service
- Rewards Service
- Search Service
- Security Service
- Service Service
- Structure Service
- Subscription Service
- Workflow Service

1.2 Validation

Validation of web service requests is complex and covers the following:

- Correctness of request structure
- Completeness of request structure (provision of mandatory fields)
- Parameter type and length checking
- Static business logic rules (consistency of data)
- Setup-specific business rules

1.2.1 Optional Schema-Level Request Validation

MDS Global web services can have their requests pre-validated for semantic correctness by a separate servlet sitting on the web services server. The validation servlet parses the incoming request (SOAP/XML) against a collection of known schemas. The servlet is optional and can be bypassed, though it is useful during development and testing of the web services client. However, the error message content returned by servlet can be technical and does not describe or elaborate exactly why a request is invalid. The validation servlet performs only semantic checking of the request. A request satisfying the validation servlet can fail for business logic reasons later.

1.2.2 Basic Field Validation

All MDS Global web services perform basic field type and length checking where possible. This is done mostly in the CMP services layer, although complex operations such as order processing can perform multiple invocations in the services layer to pre-validate the data.

1.2.3 Data Type Validation

The Java API for XML Web Services - or JAX-WS - is a Java programming language API for creating web services, particularly Simple Object Access Protocol (SOAP) web

services, such as the MDS Global web services. By default, JAX-WS does not perform data type validation against incoming requests. To minimise server overhead, data type validation is not enabled for CMP web services. It is assumed that all data type validation is performed on the calling client prior to the request being made. CMP web services performs only business rules validation. Data type validation can be performed using the supplied WSDLs and associated XSDs. Supplying invalid data in the request can result in data loss or corruption in cases where business rules validation is not performed, for example for optional date fields.

1. 2. 4 Business Logic Validation

There are two types of business logic rules:

- Static rules that ensure consistency with the CMP data model
- Setup-based rules that can change depending on CMP configuration

In general, CMP web services attempt to validate against both types before processing the request but the multiple ways in which setup can alter business logic means that this is not always possible. In these cases, an appropriate error messages detailing the processing fault is generated.

1. 3 Error Handling

Web services faults are classified into the following four groups:

- Validation fault
- System fault
- Service unavailable fault
- Security fault

MDS Global web service fault types are defined in the WSDL and declared as faults in the operation binding. From this, Java exceptions are derived (when using the Axis toolkit). All MDS Global web services can throw any of the fault types.

1. 3. 1 Validation Fault

Validation faults are passed back to the client through the SOAP fault mechanism and indicate to the client that there is a problem with the request data. This typically covers the following:

- Incomplete requests - for example, mandatory data omitted
- Excessive field lengths
- Static business rules - for example, Account must exist for an order
- Setup-based rules - for example, Subscription Serial#1 mandatory
- Third party processing faults due to invalid data - for example, as a card payment rejection

Validation faults accumulated during request processing are grouped together into a single message as much as possible, containing sub-faults detailing the named field and an explanation. This provides the best chance of a user, having modified the submitted data, to have the request processed successfully. However, this is not always possible in cases where a CMP process fails during execution due to some setup rule being broken.

1. 3. 2 System Fault

A system fault usually indicates that either the program has exited abnormally, or a runtime exception has occurred in the Services layer.

1. 3. 3 Service Unavailable Fault

A service unavailable fault is a type of system fault but specifically relates to unavailable resource, such as an inability to contact the CMP services layer.

1. 3. 4 Security Fault

Security faults can occur for three reasons:

- The supplied credentials are rejected by the authentication mechanism - a security fault detailing that there is a problem with the credentials, or a missing username or password is returned.
- An authenticated user attempts to access an unlicensed web service or web service group - individual Web Service operations are placed into licensed groups, and a license grants access to a selection of groups. Any problems encountered, including tamper detection, results in a security fault being returned with a descriptive error text.
- An authenticated user accessing a licensed operation may encounter an error if the CMP account does not have sufficient privileges to complete the operation. Most consumers of MDS Global web services operate under a special account set up specifically for access to web services. This does not have to be the case however, and there is no restriction for the security credentials to be the same as the CMP access credentials.

1. 4 Authentication and Security

1. 4. 1 HTTP Basic Authentication

Authentication, in a web service call, is about validating that the web service request has come from a valid source.

HTTP Basic Authentication involves embedding a username and password (base 64 encoded) as an HTTP header in the request. It is easy to implement on the client side and

when combined with HTTPS or a VPN, is sufficiently secure for the typical scenarios where CMP web services are deployed.

1.5 Web Services Audit Logs

CMP Web Services functionality includes an audit logs feature, which:

- Accepts all data in the SOAP header that is contained with the web service request and records this data to the audit log file.
- Makes the recorded data available to those MDS clients currently using web services.

All types of information received from SOAP headers are contained within the same log file.

The SOAP headers in the web services request are written to the log without modification as key-value pairs. This assumes the use of a flat set of headers - name/value pairs, regardless of the source of the SOAP header and the volume of data provided.

The message text of the log is updated so that the data is output as key-value pairs - for example, operation=<Web Service name>, username=<user name>.

Control for this functionality is accessed via the `logger.properties` file, which also controls the output of a line for every request to `WebServices-Usage-Tracking.log`. Standard `log4j` setup is used to set the logging level that controls what messages are output. Changing this logging level allows the audit log functionality to be switched on or off. For this audit, INFO level log messages are used. Audit logs are created continually while this feature is switched on.

This `logger.properties` file can also be used to configure the maximum size of the audit log file. The audit log continues to fill up until it reaches the maximum file size, at which point it becomes a completed log. This can be accessed by the client as per standard functionality.

The configuration for `log4j` uses the `RollingFileAppender`, which allows the maximum size of the current log file and the maximum number of log files to be specified. Once that maximum number of files is reached, the earliest files are overwritten.

If files need to be held for longer periods, move any completed files to an archive location, where they can be stored more efficiently, for example in a compressed archive format.

1.6 Web Services Support for NTP

Traditionally, CMP is operated with the system clock manually updated twice a year to reflect the move in or out of British Summer Time, or BST. In this case, throughout the year, the time zone is set to Universal Time Coordinated (UTC), also known as zero hour or 'zulu' time. As a result, regardless of the time of year, web service responses have

dates/times suffixed with **Z** to indicate zero hour/zulu time, as shown in the following example:

```

<NetworkCode>MATRIX</NetworkCode>
<ConnectedDate>2017-03-24Z</ConnectedDate>
<ConnectionReason>CR</ConnectionReason>
<AddressNumber>85</AddressNumber>
<Parent>>false</Parent>
<LastConnectionEvent>563</LastConnectionEvent>
<SuspendedFromInvoicing>>false</SuspendedFromInvoicing>
<LastAmendedDate>2017-03-24T12:36:20Z</LastAmendedDate>

```

Alternatively, CMP can be operated with a Network Time Protocol (NTP) source controlling the system clock. To do this, use the **GMT2** time zone setting on the server. This tracks United Kingdom time, automatically switching between Greenwich Mean Time (GMT) and BST at 02:00 on the appropriate days. In this case, web service responses have dates/times suffixed with **+1:00** during BST to indicate the 1 hour offset, as shown in the following example:

```

<NetworkCode>MATRIX</NetworkCode>
<ConnectedDate>2017-03-27+01:00</ConnectedDate>
<ConnectionReason>CR</ConnectionReason>
<AddressNumber>85</AddressNumber>
<Parent>>false</Parent>
<LastConnectionEvent>572</LastConnectionEvent>
<SuspendedFromInvoicing>>false</SuspendedFromInvoicing>
<LastAmendedDate>2017-03-27T09:13:20+01:00</LastAmendedDate>
</SubscriptionBasic>

```

The times supplied reflect the actual time - that is, there is no need to add the offset for the time to reflect the time of the related activity.

2.0 SOAP Web Services Interface Semantics

This section provides supplemental information relating to the CMP web service schema that cannot be captured in the schema definitions (WSDLs).

For information about the structure of the web services, refer to the schema definitions.

Each web service is described in the form of an overview followed by a list of the elements that appear in the request and response.

2.1 Request and Response

Tables are used to document each request and response. The following describes the columns used on the request and response tables:

Column	Description
Name	The element name - for example UpdateRecurringPaymentDetails. Elements where the content type is Container/Container Choice are shown in a separate section.
Description	A description of the element.
Content Type	Specifies the data type and maximum length of the value associated with the element. For example, String10. Elements that are a holder for other elements have a content type of Container. Elements that are a holder for a choice of other elements will have a content type of Container Choice. Elements where the value to be supplied is to be one of a predefined set, will have a content type of Choice.
Required?	Possible values are: Mandatory, Optional and Conditional.

The CMP database does not store null values; it replaces null with spaces.

Consequently, if you set three fields on a Create request and then perform the corresponding Query, you may get nine fields returned - and six of those could be empty strings.

The tables below define - by examples - the expected behaviour for different data types.

If you have a Create request setting the values as defined in the second column, a subsequent related query returns the value in the third column:

Type	Create Request	Query Response	Information
String	'abc'	'abc'	
String	'xyz '	'xyz'	Spaces are trimmed.
String	' '	"	Spaces are trimmed.
String	"	"	
String	Not provided	"	The null becomes empty string.
Number	123	123	
Number	0	0	
Number	Not provided	0	
Boolean	true	true	
Boolean	false	false	
Boolean	Not Provided	false	Default for Booleans is false.
Date	2008-05-14	2008-05-14	Format is YYYY-MM-DDZ
Date	Not Provided	Not Provided	Dates will not have a default. They do in the database but this should be replaced by null.
dateTime	2008-05-14 10:01:02	2008-05-14 10:01:02	Format is YYYY-MM-DDThh:mm:ssZ
dateTime	Not Provided	Not Provided	Datetimes do have a default. They do in the database but this should be replaced by null.

This does not take account of derived default data.

If you have an update request setting the values as defined in the second column, a subsequent related query will return the value in the third column:

Type	Update Request	Query Response	Information
String	'abc'	'abc'	
String	"	'	
String	Not provided	unchanged	The value is not changed in the data-base.
Number	123	123	
Number	0	0	
Number	Not provided	unchanged	The value is not changed in the data-base.
Boolean	true	true	
Boolean	false	false	
Boolean	Not provided	unchanged	The value is not changed in the data-base.
Date	2008-05-14	2008-05-14	
Date	CLEAR_FIELD	Not Provided	Dates can be set to null
Date	Not provided	unchanged	The value is not changed in the data-base.
dateTime	2008-05-14 10:01:02	2008-05-14 10:01:02	
dateTime	CLEAR_FIELD	Not Provided	Datetimes can be set to null.
dateTime	Not provided	unchanged	The value is not changed in the data-base

This does not take account of derived default data.



This document is updated to 8.18 of CMP. If you are not currently on this release of CMP, please contact your MDS Account Manager to check that you have the correct version of the document.

2.2 Account Service

The information in this section corresponds to the CMP web services as specified in the [accountservice.wsdl](#).

The following web services are included:

- [Add Registered Card](#)
- [Cancel Registered Card](#)
- [Create Account](#)
- [Create Account Serial Number](#)
- [Query Account](#)
- [Update Account Details](#)
- [Update Account Serial Number](#)
- [Update Recurring Payment Details](#)

2.2.1 AddRegisteredCard

 The AddRegisteredCard SOAP web service has been deprecated.

The AddRegisteredCard web service enables an external client system to store new card details in the CMP database for future use and customer convenience.

2.2.1.1 AddRegisteredCard Request

The AddRegisteredCard tag instructs the Account Service to add a token representing a registered credit card. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The Account Number automatically allocated upon Account creation in CMP.	Mandatory
AddRegisteredCardData	Container	Choice of: - SubscriptionNumber - NetworkSerialNumber See AddRegisteredCardData Container for details.	Optional
RegisterOnly	Container	Contains: RegisterOnlyType See RegisterOnly Request Container for details.	Optional
Card	Container	Contains: - PaymentType - PaymentCardToken Container See Card Container for details	Mandatory
CancelExistingCard	Boolean	This flag indicates whether or not to cancel the existing card when registering a new card.	Optional
CancellationReason	String	The valid cancellation reason depends on what card is being cancelled, e.g. Credit Card/Debit Card etc.	Optional
AuditRecord	Container	Contains: - UserID - Program See AuditRecord Request Container for details	Optional

AddRegisteredCardData Request Container

The AddRegisteredCardData request container contains the following elements:

Element Name	Content Type	Description	Required?
SubscriptionNumber	Integer8	This indicates the unique system generated subscription number.	Optional
NetworkSerialNumber	String25	Network Serial Number associated with CMP Subscription Number.	Optional

RegisterOnly Container

Element Name	Content Type	Description	Required?
RegisterOnlyType	String1	Choice of: "1" = Yes: - The card is added with a status of 'One Off Payment' and the payment type on the account is not updated. Even if this is the first card being added to the account, it is not with a status of 'Active' and the payment type of the account remains unchanged. "0" = No: - If the account has no active card already, the new card is added with the status 'Active' and the payment type of the account is updated to CARD. - If the account already has an active card, the new card is added with status 'One Off Payment' and the payment type of the account is not updated.	Optional

Card Request Container

The Card request container has the following elements:

Element Name	Content Type	Description	Required?
PaymentType	String6	The type of credit / debit card used (for example VISA).	Mandatory
PaymentCardToken	Container	Contains: • CardReference • CardNumber • NameOnCard • StartYear • StartMonth • ExpiryYear • ExpiryMonth See PaymentCardToken Request Container for details	Mandatory

PaymentCardToken Request Container

The PaymentCardToken request container has the following elements:

Element Name	Content Type	Description	Required?
CardReference	VARCHAR (100)	The tokenised string representing the card.	Mandatory*
CardNumber	String4	The last four digits of card number.	Mandatory
NameOnCard	String20	The name of the cardholder exactly as displayed on the card.	Optional
StartYear	String2	The year from which the card becomes valid, as shown on the card.	Optional
StartMonth	String2	The month from which the card becomes valid, as shown on the card.	Optional
ExpiryYear	String2	The year that the card expires, as shown on the card.	Mandatory*
ExpiryMonth	String2	The month that the card expires, as shown on the card.	Mandatory*

* Mandatory if the system property `GENERIC.PAYMENTS - PAYMENT.INTEGRATION` is set to `true`.

AuditRecord Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The program name should be hard coded in the calling application to uniquely identify that application.	Mandatory

AddRegisteredCard Sample Request

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/account/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:AddRegisteredCard>
      <def:Request>
        <ExternalReference>ReqId:2304876</ExternalReference>
        <AddRegisteredCardData>
          <AccountNumber>4968973</AccountNumber>
        </AddRegisteredCardData>
        <Card>
          <PaymentType>VISA</PaymentType>
          <PaymentCardToken>
            <CardReference>token15.31.01.10.14</CardReference>
            <CardNumber>1531</CardNumber>
            <NameOnCard>joe</NameOnCard>
            <StartYear>2012</StartYear>
            <StartMonth>02</StartMonth>
            <ExpiryYear>2016</ExpiryYear>
            <ExpiryMonth>01</ExpiryMonth>
          </PaymentCardToken>
        </Card>
        <!--Optional:-->
        <AuditRecord>
          <UserID>USERID20</UserID>
          <Program>WEBAPP-3</Program>
        </AuditRecord>
      </def:Request>
    </def:AddRegisteredCard>
  </soapenv:Body>
</soapenv:Envelope>

```

2.2.1.2 AddRegisteredCard Response

AddRegisteredCard response is the response to the [AddRegisteredCard Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

Sample AddRegisteredCard Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <ns2:AddRegisteredCardResponse xmlns:ns2="http://mdsuk.com/ws/dise3g/account/definition" xmlns:ns3="http://mdsuk.com/ws/dise3g/workflow/definition" xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
      <ns2:Result>
        <ExternalReference> ReqId:2304876</ExternalReference>
      </ns2:Result>
    </ns2:AddRegisteredCardResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

2.2.2 Cancel Registered Card



The CancelRegisteredCard SOAP web service has been deprecated.

This service cancels an existing registered card.

2.2.2.1 CancelRegisteredCardRequest

The Cancel Registered Card request has the following elements:

Element Name	Content Type	Description	Required?
CardReference	VARCHAR (100)	The tokenised string representing the card.	Mandatory
CancellationReason	String	The valid cancellation reason depends on what card is being cancelled, e.g. Credit Card/Debit Card etc.	Optional

2.2.2.2 CancelRegisteredCardRequest Response

The CancelRegisteredCardRequest response is the response to the CancelRegisteredCardRequest Request. This contains the following elements:

Element Name	Content Type	Description	Required
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.2.3 CreateAccount

The CreateAccount web service enables an external client system to create an account within CMP either as a single entity, or as part of an existing CMP Corporate structure.

The request includes the following:

- Account address information
- Payment Type and Payment Terms
- Bank account and credit card details (if appropriate)

The user must pass in a valid CMP Company Number. Standard CMP rules associated with creating an Account govern which values are mandatory or optional.

To attach the new Account to an existing Corporate structure, a valid Corporate Code must be passed in as part of the web service request.

The web service returns a response containing the newly created Account Number.

Submission of invalid data for the above criteria results in an error message.

2.2.3.1 CreateAccount Request

The CreateAccount tag instructs the Account Service to create an Account. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountData	Container	See Create AccountData Request Container for details.	Mandatory

AccountData Request Container

The AccountData request container contains the following elements:

Element Name	Content Type	Description	Required?
CompanyNumber	String3	The valid company number to be assigned to the account. Value must already be set up in CMP.	Mandatory
Address	Container	Choice of: • PersonalAddress • BusinessAddress See UpdateAddress Request for details.	Mandatory
PaymentType	String6	If not supplied, the value that is defaulted in comes from the Company Maintenance, Default Payment Type field. A list of valid payment types is configured in CMP setup. The payment type drives what the valid payment terms are. The list of payment types presented are governed by whether the redirect payment feature is being used. The default is to use this feature. The PaymentType field determines the required payment details to be supplied. Each payment type is associated via setup with a payment method. Example payment methods are: • Direct Debit • Credit Card • Debit Card • Cheque A payment type with a payment method of Cheque is referred to as a manual payment. In this case payments are taken outside of CMP and can be recorded in CMP or a third party accounting system at a later point. There is no extra payment information required to be supplied when setting up the account for manual payments. A payment type has a payment method of Direct Debit is referred to as an automated payment mechanism whereby CMP will pull payments via direct debit from a users bank account. The bank account information must be supplied to CMP in this scenario. The following fields are then required:	Optional

Element Name	Content Type	Description	Required?
		• BankAccountNumber • BankSortCode • BankName	
PaymentTerm	String3	If not supplied, the value that is defaulted in comes from the Account Default Parm's Maint. The field is ADVPaymentTermsAR. If there is a default payment term specified in the default payment terms for the payment type that is used instead. The payment terms that are valid depend on the PaymentType and CompanyNumber that were provided.	Optional
AccountType	String3	Account Types indicate the type of Account to which Subscriptions belong, for example, 001 = VIP, 002 = Bad Debt. This is a classification of the Account. If not supplied, the value that is defaulted in comes from the Account Default Parm's Maint. The field is ADVSalesPersonCode. Value must be a valid Account Type.	Optional
SubLedgerCode	String6	This references an extra level of detail in the General Ledger and links to the external financials software. The main use of this code is to enable direct debits to be claimed from the bank account. If not supplied, the value that is defaulted in comes from the Subledger field in Account Default Parm's Maint. Value must be a valid Sub Ledger Code.	Optional
CreditLimit	Integer9	Relates to a set limit for invoiced but unpaid charges. It can also be used in conjunction with usage limits which applies to unbilled units. Exceeding the limit can trigger an automated procedure. When unpaid charges reach a set amount a recovery procedure commences.	Optional
HardwareCreditLimit	Integer9	This is the maximum amount of an order that is permitted. It is only used if the Hardware Credit Limit toolbox feature is switched on.	Optional

Element Name	Content Type	Description	Required?
AccountPassword	String20	Password as specified by the user / customer.	Optional
AccountPin	Integer4	A randomly generated number will be supplied.	Optional
AccountUsage	String - Enumeration	This indicator controls what the Account can be used for. If no value is supplied then this defaults to SubscriptionAndSales/Both. Valid values are Subscription, SubscriptionAndSales and Sales. These appear in the CMP GUI as - Subscription = Subscription - SubscriptionAndSales = Both - Sales = Sales Order Subscriptions cannot be added to an account when usage is Sales (usually referred to as a Hardware account). It is possible to add Subscriptions to a Subscription or to a SubscriptionAndSales (Both).	Optional
BankAccountNumber	String20	Only applicable if SEPA* is switched off . This optional field becomes mandatory and valid ONLY if the payment method associated with the Payment Type is Direct Debit. Setup can configure the valid lengths of the bank account number.	Optional
BankSortCode	String20	Only applicable if SEPA* is switched off. This optional field becomes mandatory and valid ONLY when the payment type has a payment method of Direct Debit.	Optional
BankName	String30	Only applicable if SEPA* is switched off. If this is supplied it is stored as supplied and not validated. If it is not supplied then the sort code is used to retrieve the bank name from the CMP bank header table. For SEPA*, the request will be rejected if the Bank Name is included in the request. It will always retrieve the bank name from the CMP bank header table using the BIC.	Optional

Element Name	Content Type	Description	Required?
ControlDigit	String2	Usually only supplied when the Payment Type has a payment method of Direct Debit.	Optional
NameOfPayer	String30	This becomes mandatory when the Payment Type has a payment method of Direct Debit. Use the following format for this field: "First name space last name"	Optional
DateMandateReceived	Date	This is the date that the DD mandate was received. For electronic forms of DD Mandate this should be set to the current date. For paper mandates, it's the date that the mandate was received by the relevant back office individual. YYYY-MM-DDZ Usually only supplied when the Payment Type has a payment method of Direct Debit.	Optional
DDSetupMethodCode	String6	Usually only supplied when the Payment Type has a payment method of Direct Debit.	Optional
CorporateCode	String6	The Corporate to which the Account will be added. If not specified, the account will not be associated with any corporate. If required an Account can be standalone or it can form part of a larger corporate structure.	Optional
EmailAddress	String	This adds an e mail address with the default email address type. The default e mail address type is defined in setup.	Optional
AccountSerialNumbers	Container	A container for one or more Account Serial Numbers. It is possible to configure up to 999 different serial numbers via setup. See Create AccountSerialNumber Request Container for details.	Optional
PaymentCardToken	Container	See Payment Card Token Request Container for details.	Optional
MandateReference	String35	Only applicable and mandatory if SEPA* is switched on.	Mandatory for SEPA only

Element Name	Content Type	Description	Required?
MandateSignatureDate	Date	Only applicable if SEPA* is switched on.	Optional



*SEPA is turned on via setting the System Property parameter group DIRECT.DEBIT.PAYMENT.SCHEME to have a value of SEPA. The default is to use BACS.

Address Request Container

The Address request container instructs the Address Service to update an Account with an address. This request contains the following elements:

Element Name	Content Type	Description	Required?
AddressData	Container - Choice	Choice of: - PersonalAddress - BusinessAddress	Mandatory

Personal Address Errors

For Personal Addresses, if multiple mandatory fields are not supplied the following error (the details depend on the fields not supplied) is returned:

<Error>

<MessageId>MISSING_ADDRESS_FIELD</MessageId>

<MessageText>Please complete the Title,Middle Name,Surname,Address Line 1,Address Line 2,Address Line 3,

Address Line 4,Address Line 5,Postcode,Daytime Telephone,Evening Telephone,Fax Number,

Address Type,Address Category,Occupation,Id Number,Date Of Birth,Date Of Residence,

Gender field(s)</MessageText>

<ExtraInfo>Title,Middle Name,Surname,Address Line 1,Address Line 2,Address Line 3,Address Line 4,Address Line 5,Postcode,Daytime Telephone,Evening Telephone,Fax Number,

Address Type,Address Category,Occupation,Id Number,Date Of Birth,Date Of Residence,

Gender</ExtraInfo>

</Error>

Business Address Errors

For Business Addresses, if multiple mandatory fields are not supplied the following error (the details of course depends on the fields not supplied, the complete list is shown here) is returned:

```
<Error>
<MessageId>MISSING_ADDRESS_FIELD</MessageId>
<MessageText>Please complete the Title,Fore-
name,MiddleName,Surname,Address Line 1,Address Line 2,
Address Line 3,Address Line 4,Address Line 5,Postcode,Company
Telephone,Contact Telephone,
Fax Number,Address Type,Address Category,Date Of Incor-
poration,Date Of Residence,Job Title,
Company Name,Company Registration,Industrial Classification field
(s)</MessageText>
<ExtraInfo>Title,Forename,MiddleName,Surname,Address Line 1,Ad-
dress Line 2,
Address Line 3,Address Line 4,Address Line 5,Postcode,Company
Telephone,Contact Telephone,
Fax Number,Address Type,Address Category,Date Of Incor-
poration,Date Of Residence,Job Title,
Company Name,Company Registration,Industrial Classification </Ex-
traInfo
</Error>
```

PersonalAddress Request Container

The PersonalAddress request container has the following elements:

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Optional
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Separated or BLANK.	Optional
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the available Customer Types configured in CMP.	Optional
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional
Occupation	String10	The customer's current occupation. Con-	Optional

Element Name	Content Type	Description	Required?
		figurable CMP list.	
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list. If the ID type used is SALESPERSN, the Salesperson ID is entered as the ID Number. If this number does not match an existing Salesperson ID number in the CMP database, a new record for the salesperson is created in the salesForce database table .	Optional
IDNumber	String30	The unique ID from the proof of identity. If a salesperson ID number is used, the ID must be numbers only in the range 0 - 99999999.	Mandatory if the IDType specified is SALESPERSN. Otherwise optional.
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via CMP back office setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Request Container

The BusinessAddress request container has the following elements:

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Optional
Address3	String40	Line three of the company's address.	Optional
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides. Configurable CMP list.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional
DateOfIncorporation	Date	The date the company register at the address specified in the format YYYY-MM-DD.	Optional
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact surname name.	Optional
JobTitle	String30	Company's contact job title.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via CMP back office setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

AccountSerialNumbers Request Container

The AccountSerialNumber request container contains the following elements:

Element Name	Content Type	Description	Required?
SerialNumberId	Range 1-999	The Managed Serial Number identification number. Must be a valid ID number in CMP configuration.	Mandatory
SerialNumberValue	String25	The actual network serial number value, for example mobile phone number. The default value that can be set up only applies to the CMP GUI. Each serial number field can be configured via set up with the applicable allowed values, field type, and min and max allowable values.	Mandatory

PaymentCardToken Request Container

The PaymentCardToken request container contains the following elements:

Element Name	Content Type	Description	Required?
CardReference	VARCHAR (100)	The tokenised string representing the card.	Mandatory
CardNumber	String4	The last four digits of card number.	Optional
NameOnCard	String20	The name of the cardholder exactly as displayed on the card.	Optional
StartYear	String2	The year from which the card becomes valid, as shown on the card.	Optional
StartMonth	String2	The month from which the card becomes valid, as shown on the card.	Optional
ExpiryYear	String2	The year that the card expires, as shown on the card.	Mandatory
ExpiryMonth	String2	The month that the card expires, as shown on the card.	Mandatory

Sample Create Account Request

```
<soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/" xmlns:de-
f="http://mdsuk.com/ws/dise3g/account/definition">
<soapenv:Header/>
<soapenv:Body>
<def:CreateAccount>
<def:AccountData>
<!--You may enter the following 2 items in any order-->
<!--Optional:-->
<ExternalReference>REQ1</ExternalReference>
<AccountData>
<!--You may enter the following 34 items in any order-->
<CompanyNumber>001</CompanyNumber>
<Address>
<!--You have a CHOICE of the next 2 items at this level-->
<PersonalAddress>
<!--You may enter the following 23 items in any order-->
<Title>Mr</Title>
<!--Optional:-->
<Forename>J</Forename>
<!--Optional:-->
<MiddleName>B</MiddleName>
<Surname>Blogs</Surname>
<Address1>High Street</Address1>
<!--Optional:-->
<Address2>London</Address2>
<Postcode>WA2 0XU</Postcode>
<!--Optional:-->
<DateOfBirth>1977-02-01</DateOfBirth>
<!--Optional:-->
<Gender>Male</Gender>
<!--Optional:-->
<MaritalStatus>Single</MaritalStatus>
<TelephoneNumber>18547851245</TelephoneNumber>
<!--Optional:-->
<EveningTelephoneNumber>78946513</EveningTelephoneNumber>
<!--Optional:-->
<FaxNumber>789465154</FaxNumber>
</PersonalAddress>
</Address>
<!--Optional:-->
<PaymentType>DD</PaymentType>
<AccountPIN>8514</AccountPIN>
```



```

<!--Optional:-->
<AccountUsage>Subscription</AccountUsage>
<!--Optional:-->
<BankAccountNumber>28705459</BankAccountNumber>
<!--Optional:-->
<BankSortCode>557023</BankSortCode>
<!--Optional:-->
<BankName>Loyds</BankName>
<!--Optional:-->
<NameOfPayer>John Ryan</NameOfPayer>
<!--Optional:-->
<DateMandateReceived>2014-02-02</DateMandateReceived>
<!--Optional:-->
<DDSetupMethodCode>DDIP</DDSetupMethodCode>
<EmailAddress>joe.bloggs@mdscem.com</EmailAddress>
</AccountData>
</def:AccountData>
</def>CreateAccount>
</soapenv:Body>
</soapenv:Envelope>

```

2.2.3.2 CreateAccount Response

The CreateAccount response is the response to the CreateAccount request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The number automatically allocated to the account upon creation in CMP.	Mandatory



The CreateAccount response returns a failure response if a Hardware Credit Limit is required and has not been provided.

Sample CreateAccount Response

```

<soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>

```

```

<ns2:CreateAccountResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/account/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/workflow/definition"
xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
<ns2:Result>
<ExternalReference>REQ1</ExternalReference>
<AccountNumber>10</AccountNumber>
</ns2:Result>
</ns2:CreateAccountResponse>
</soapenv:Body>
</soapenv:Envelope>

```

Failure Scenarios

Bank account validation failure scenarios are in place for the CreateAccount web service.

Examples are given below:

Fault-Response-CMP-Setup

```

<Details>
  <MessageId>mds.dise3g.validation</MessageId>
  <MessageText>Validation errors in the data submitted for the
request</MessageText>
</Details>
<Errors>
  <Error>
<MessageId>EXTERNAL_VALIDATION_CONFIG_ERROR</MessageId>
<MessageText>Failed to perform external Bank Validation - CMP
Setup error. Either the web service Endpoint Address or the WSDL
Location URL must be set.</MessageText>
<ExtraInfo>Either the web service Endpoint Address or the WSDL
Location URL must be set.</ExtraInfo>
  </Error>
</Errors>

```

Fault-Response-Timeout

```

<Details>
  <MessageId>mds.dise3g.validation</MessageId>
  <MessageText>Validation errors in the data submitted for the
request</MessageText>
</Details>
<Errors>
  <Error>
<MessageId>EXTERNAL_VALIDATION_SYSTEM_ERROR</MessageId>

```

```

<MessageText>Failed to perform external Bank Validation.
javax.xml.ws.soap.SOAPFaultException: java.net.Socket-
etTimeoutException: Socket operation timed out before it could be
completed</MessageText>
<ExtraInfo>javax.xml.ws.soap.SOAPFaultException: java.net.Socket-
etTimeoutException: Socket operation timed out before it could be
completed</ExtraInfo>
  </Error>
</Errors>

```

Fault-Response-Multiple-Third-Party-Faults

```

<Details>
  <MessageId>mds.dise3g.validation</MessageId>
  <MessageText>Validation errors in the data submitted for the
request</MessageText>
</Details>
<Errors>
  <Error>
    <MessageId>EXTERNAL_VALIDATION_REJECTION</MessageId>
    <MessageText>Rejected by external Bank Validation - [B-VA0001]
Invalid Sort Code (Bank Wizard) [E1][B-VA0002] Invalid Account
Number (Bank Wizard) [E4] Orig Invalid Account Num-
ber</MessageText>
    <ExtraInfo>[B-VA0001] Invalid Sort Code (Bank Wizard) [E1][B-
VA0002] Invalid Account Number (Bank Wizard) [E4] Orig Invalid
Account Number</ExtraInfo>
  </Error>
</Errors>

```

Fault-Response-Negative-Validation-Result

```

<Details>
  <MessageId>mds.dise3g.validation</MessageId>
  <MessageText>Validation errors in the data submitted for the
request</MessageText>
</Details>
<Errors>
  <Error>
    <MessageId>EXTERNAL_VALIDATION_REJECTION</MessageId>
    <MessageText>Rejected by external Bank Validation - [B-VA0002]
Invalid Account Number (Bank Wizard) [E4]</MessageText>
    <ExtraInfo>[B-VA0002] Invalid Account Number (Bank Wizard)
[E4]</ExtraInfo>
  </Error>
</Errors>

```

Fault-Response-No-Connection

```
<Details>
  <MessageId>mds.dise3g.validation</MessageId>
  <MessageText>Validation errors in the data submitted for the
request</MessageText>
</Details>
<Errors>
  <Error>
<MessageId>EXTERNAL_VALIDATION_SYSTEM_ERROR</MessageId>
<MessageText>Failed to perform external Bank Validation.
javax.xml.ws.soap.SOAPFaultException: java.net.ConnectException:
A remote host refused an attempted connect oper-
ation.</MessageText>
<ExtraInfo>javax.xml.ws.soap.SOAPFaultException: java.net.Con-
nectException: A remote host refused an attempted connect oper-
ation.</ExtraInfo>
  </Error>
</Errors>
```

Fault-Response-Precheck

```
<Details>
  <MessageId>mds.dise3g.validation</MessageId>
  <MessageText>Validation errors in the data submitted for the
request</MessageText>
</Details>
<Errors>
  <Error>
<MessageId>EXTERNAL_VALIDATION_PRECHECK_ERROR</MessageId>
<MessageText>Failed to perform external Bank Validation - check
request data. ValidateBankDetailsRequest: bankCode exceeds max
length 6</MessageText>
<ExtraInfo>ValidateBankDetailsRequest: bankCode exceeds max
length 6</ExtraInfo>
  </Error>
</Errors>
```

2.2.4 CreateAccountSerialNumber

The CreateAccountSerialNumber web service enables an external client system to create and store a serial number at Account level in the CMP hierarchy.

2.2.4.1 CreateAccountSerialNumber Request

The CreateAccountSerialNumber tag instructs the Account Service to create an Account Serial Number against the Account specified. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The number automatically allocated to the Account upon creation in CMP.	Mandatory
SerialNumberId	Range1-999	Before a serial number can be added to an Account, the serial number must be configured in CMP and have a unique ID. This unique ID must be entered.	Mandatory
SerialNumberValue	String25	Each serial number field can be configured via setup with the applicable allowed values, field type, and minimum and maximum values. This element must contain the actual value of the serial number.	Mandatory

Sample CreateAccountSerialNumber Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/account/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:CreateAccountSerialNumber>
      <def:Request>
        <ExternalReference>2304876</ExternalReference>
        <AccountNumber>10</AccountNumber>
        <SerialNumberId>1</SerialNumberId>
        <SerialNumberValue>505062</SerialNumberValue>
      </def:Request>
    </def:CreateAccountSerialNumber>
  </soapenv:Body>
</soapenv:Envelope>
```

2.2.4.2 CreateAccountSerialNumber Response

The CreateAccountSerialNumber response is the response to the [CreateAccountSerialNumber Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

Sample CreateAccountSerialNumber Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/account/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:CreateAccountSerialNumber>
      <def:Request>
        <ExternalReference>2304876</ExternalReference>
        <AccountNumber>9</AccountNumber>
        <SerialNumberId>1</SerialNumberId>
        <SerialNumberValue>505062</SerialNumberValue>
      </def:Request>
    </def:CreateAccountSerialNumber>
  </soapenv:Body>
</soapenv:Envelope>
```

2.2.5 QueryAccount

The QueryAccount web service enables an external client system to query an Account and retrieve Account Summary details for any existing CMP Account.

The request supplies the Account Number of the account and a set of flags that determine the level of detail required.

The user must pass in a valid CMP Account Number in order to retrieve the associated Account details.

Datasets exist for this web service which enables the user to pass in a single value in order to retrieve a specific subset of information. The response returns basic details similar to AgentView Account Summary, plus optional extra information determined by the datasets specified.

Submitting invalid data in the request will result in an error message. Neither Open Transaction information nor Open Events information is returned.

2.2.5.1 QueryAccount Request

The QueryAccount tag instructs the Account Service to query an Account. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The number automatically allocated to the Account when created in CMP.	Mandatory
Datasets	Container	Contains one or more Dataset elements. The following datasets can be specified (note the upper case): • ATTRIBUTES • BASIC • ACCOUNT_TYPE_AND_USAGE • ADDRESS • AUTO_PAYMENTS • CREDIT_CONTROL • CUSTOMER_DETAILS • DISCOUNTS • NON_SUBSCRIPTION_INVOICE • PAYMENT_DETAILS • SUBSCRIPTION_INVOICE • ACCOUNT_SERIAL_NUMBERS • SERVICES • BONDS • CREDIT_DEBIT_CARDS • TERMINATION_FEE • REWARD_ENTITLEMENTS • DLP_PORT	Optional

Datasets Request Container

The QueryAccount Dataset request container has the following elements:

Element Name	Content Type	Description	Required?
Dataset	Container	The valid datasets are (note the upper case): • ATTRIBUTES • BASIC • ACCOUNT_TYPE_AND_USAGE • ADDRESS • AUTO_PAYMENTS • CREDIT_CONTROL • CUSTOMER_DETAILS • DISCOUNTS • NON_SUBSCRIPTION_INVOICE • PAYMENT_DETAILS • SUBSCRIPTION_INVOICE • ACCOUNT_SERIAL_NUMBERS • SERVICES • BONDS • CREDIT_DEBIT_CARDS • TERMINATION_FEE • REWARD_ENTITLEMENTS • DLP_PORT	Mandatory

Sample QueryAccount Request

BASIC Dataset

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/account/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:QueryAccount>
      <def:Request>
        <!--Optional:-->
        <ExternalReference?></ExternalReference>
        <AccountNumber>9999999</AccountNumber>
        <!--Optional:-->
        <Datasets>
          <!--1 or more repetitions:-->
          <Dataset>BASIC</Dataset>
        </Datasets>
      </def:Request>
    </def:QueryAccount>
  </soapenv:Body>
</soapenv:Envelope>
```



```

        </def:QueryAccount>
    </soapenv:Body>
</soapenv:Envelope>

```

PAYMENT_DETAILS dataset

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/account/definition">
    <soapenv:Header/>
    <soapenv:Body>
        <def:QueryAccount>
            <def:Request>
                <!--Optional:-->
                <ExternalReference?></ExternalReference>
                <AccountNumber>9999999</AccountNumber>
                <!--Optional:-->
                <Datasets>
                    <!--1 or more repetitions:-->
                    <Dataset>PAYMENT_DETAILS</Dataset>
                </Datasets>
            </def:Request>
        </def:QueryAccount>
    </soapenv:Body>
</soapenv:Envelope>

```

2.2.5.2 QueryAccount Response

The QueryAccount response is the response to the [QueryAccount Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
BASIC	Container	See Account Basic Response Container for details.	Optional
PAYMENT_ DETAILS	Container	Choice of: - Cheque - PaymentCard - DirectDebit - SEPADirectDebit See PaymentDetails Response Container for details.	Optional
ADDRESS	Container	See Address Request Container for details.	Optional
AUTO_ PAYMENTS	Container	See AutoPayments Response Container for details.	Optional
CREDIT_ CONTROL	Container	See CreditControl Response Container for details.	Optional
ACCOUNT_ TYPE_ AND_ USAGE	Container	See AccountTypeAndUsage Response Container for details.	Optional
ACCOUNT_ SERIAL_ NUMBERS	Container	0-999 repetitions of AccountSerialNumber. See AccountSerialNumber Response Container for details	Optional
CUSTOMER_ DETAILS	Container	See CustomerDetails Response Container for details.	Optional
SUBSCRIPTION_ INVOICE	Container	See SubscriptionInvoiceControl Response Container for details.	Optional
NON_ SUBSCRIPTION_ INVOICE	Container	See NonSubscriptionInvoiceControl Response Container for details.	Optional
SERVICES	Container	See Service Response Container for details.	Optional

Element Name	Content Type	Description	Required?
CREDIT_DEBIT_CARDS	Container	See CreditDebitCard Response Container for details	Optional
ATTRIBUTES	Container	See AttributeGroup Response Container for details.	Optional
TERMINATION_FEE	Container	See TerminationFee Response Container for details.	Optional
DLP_PORT	Container	See DLPPORT Response Container for details.	Optional

AccountBasic Response Container

The AccountBasic response container is the response to the BASIC dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
AccountNumber	Integer8	The number automatically allocated to the Account upon creation in CMP.	Mandatory
CorporateCode	String6	The Corporate to which the Account will be added. If not specified, the Account will not be associated with any Corporate.	Optional
GroupCode	String6	The ID allocated to the group in CMP to which the Account belongs.	Optional
CompanyNumber	String3	The Company Name to which the Account is attached.	Mandatory
PaymentType	String6	If not supplied, the value that is defaulted in comes from the Company Maintenance, Default Payment Type field. A list of valid payment types is configured in CMP setup. The payment type drives what the valid payment terms are. The list of payment types presented are governed by whether the redirect payment feature is being used. The PaymentType field determines the required payment details to be supplied. Each payment type is associated via setup with a payment method. The payment methods are: • Direct Debit • Credit Card • Debit Card • Electronic Funds Transfer • Cheque • Awaiting DD Instruction	Mandatory
PaymentTerms	String3	If not supplied, the value that is defaulted in comes from the Account Default Parm's Maint. The field is ADVPaymentTermsAR.	Mandatory

Element Name	Content Type	Description	Required?
		If there is a default payment term specified in the default payment terms for the payment type then that is used instead. The payment terms that are valid depend on the PaymentType and CompanyNumber that were provided.	
BondAmount	Integer8	The total value of the bond is displayed only if a bond is currently being held for the customer.	Optional
AddressNumber	Integer8	The Account level delivery address number which is used to identify one of the several delivery addresses available.	Mandatory
CreationDate	dateTime	The date on which the Account was created.	Mandatory
SuspendFromInvoicing	Boolean	If set to True then invoicing is suspended on the Account.	Optional
LastAmendedDate	dateTime	The date and time at which the Account was last amended. YYYY-MM-DDThh:mm:ssZ	Optional
ParentSubscription	Integer8	The CMP Subscription Number of the parent.	Optional

Address Response Container

The Address response container is the response to the ADDRESS dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
AddressNumber	Integer	The Account level delivery address number which is one of the several delivery addresses available.	Optional
PersonalAddress	Container	The PersonalAddress container is returned when populated in CMP.	Optional
BusinessAddress	Container	The BusinessAddress container is returned when populated in CMP.	Optional
Last Amended Date	dateTime	The date and time at which the Account was last amended. YYYY-MM-DDThh:mm:ssZ	Optional

Only one address type, personal or business, can be setup at any one time. Therefore only the address which is populated in CMP is returned when an Account is queried specifying the ADDRESS dataset.

PersonalAddress Response Container

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Optional
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Separated or BLANK.	Optional
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the	Optional

Element Name	Content Type	Description	Required?
		available Customer Types configured in CMP.	
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional

CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via CMP back office setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Response Container

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Optional
Address3	String40	Line three of the company's address.	Optional
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides. Configurable CMP list.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional

Element Name	Content Type	Description	Required?
DateOfIncorporation	Date	The date the company register at the address specified, in the format YYYY-MM-DD.	Optional
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact sur-name name.	Optional
JobTitle	String30	Company's contact job title.	Optional

CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via CMP back office setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

PaymentDetails Response Container

The PaymentDetails response container is the response to the PAYMENT_DETAILS dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
Cheque	Container	See Cheque Response Container for details.	Mandatory
PaymentCard	Container	See PaymentCard Request Container for details.	Mandatory
DirectDebit	Container	See DirectDebit Response Container for details.	Mandatory
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Cheque Response Container

The Cheque response container has the following elements:

Element Name	Content Type	Description	Required?
PaymentType	String6	A PaymentType which has a Payment Method of Cheque is referred to as a manual payment. In this case payments are taken outside CMP and can be recorded in CMP or a third party accounting system at a later point. Manual payments require no extra payment information.	Mandatory

PaymentCard Response Container

The PaymentCard response container has the following elements:

Element Name	Content Type	Description	Required?
PaymentType	String6	The type of credit / debit card used (for example VISA).	Mandatory
CardNumber	String20	Only the last four digits of the credit/debit card number are displayed in line with PCI DSS compliance	Optional
NameOnCard	String20	The cardholder's name, exactly as it appears on the card.	Optional
PaymentCardStatus	String6	This indicates if the card is active or not.	Optional

DirectDebit Response Container

The DirectDebit response container has the following elements:

Element	Content Type	Description	Required?
BankName	String30	The name of the bank, for example Barclays.	Optional
NameOfPayer	String30	The name of the person instigating the direct debit. Typically in the format Forename Surname.	Optional
DateMandateReceived	Date	The date that the direct debit mandate was received in the format YYYY-MM-DDZ. For electronic forms of direct debit mandate this should be set to the current date. For paper mandates, use the date that the mandate was received.	Optional
DirectDebitPaymentStatus	String6	This field is deprecated and is no longer used.	Optional
DDSetupMethodCode	String6	The unique code for the set up method used. For example, PDD - Paperless Direct Debit (Phone).	Optional
PaymentType	String	The default Payment Type (e.g. Direct Debit).	Mandatory
BankAccountNumber	String20	The bank account from which the payments will be made.	Optional
BankSortCode	String20	The sort code for the bank branch which holds the account.	Optional

This approach to required fields matches the current approach for the Update Recurring Payment Details web service. All fields are defined as optional which supports the usage for changing details of the existing payment method. However if the web service is being used to change the payment method then some of the optional fields have to be populated to enable the payment method to be setup.

AutoPayments Response Container

The AutoPayments response container is the response to the AUTO_PAYMENTS dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
AutoPaymentCalcMethod	String - enumeration	There are two options for this field which refers to direct debit/automatic account withdrawals only. - CHILD (Child balance) - PARENT (Parent balance). If set to CHILD, only payments corresponding to the Account being changed are pulled. If set to PARENT, payments are pulled from all Accounts linked to the parent of the Account being viewed.	Optional
Suspend FromAuto Payment	Boolean	Once flagged the auto payment is suspended.	Optional
SuspendUpToDueDate	date	The date, in the format YYYY-MM-DDZ, entered relates to the start of the period during which auto payments are suspended. Works in conjunction with Suspend FromAuto Payment field.	Optional
SuspendDueDateUntil	date	The date, in the format YYYY-MM-DDZ, entered relates to the end of the period during which auto payments are suspended. Works in conjunction with Suspend FromAuto Payment field.	Optional
SuspensionReason	String90	The reason why the Account is suspended from auto payment. Works in conjunction with Suspend	Optional

Element Name	Content Type	Description	Required?
		FromAuto Payment field.	
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

CreditControl Response Container

The CreditControl response container is the response to the CREDIT_CONTROL data-set when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
CreditLimit	Integer9	The customers spending limit. This includes billed charges and can work independently, or in conjunction with the value of unbilled usage.	Optional
HardwareCreditLimit	Integer9	The customer spending limit for hardware only.	Optional
CreditScore	Integer	The rating given to the customer by the Credit Reference Agency during the credit checking process.	Optional
IgnoreCreditControl	Boolean	This suspends the Credit Control process up to a specified date, see IgnoreCreditControlUpToDate. This setting can also be changed by the CreditControlStatus setting.	Optional
IgnoreCreditControlUpToDate	Date	The date until which Credit Control is ignored. Works in conjunction with IgnoreCreditControl. This setting is also used by the CreditControlStatus setting. YYYY-MM-DDZ	Optional
IgnoreUsageLimits	Boolean	If set to True, this means the customer is not notified when either their lower or upper usage limit is reached, and no auto response is triggered. This affects all Subscriptions linked to the Account.	Optional
AccountInQuery	Boolean	If set to True, this indicates that an element of the balance outstanding is being held out from recovery procedures while a customer query is addressed.	Optional
CreditControlAddressNumber	Integer8	The unique number associated with this type of address, which is one of several delivery	Optional

Element Name	Content Type	Description	Required?
		addresses available in CMP.	
CreditControlStatus	String	Choice of: • Normal - The Account is not currently in credit control. • On Procedure - The Account is in credit control. • Ignored - The Account was in credit control but an agent has indicated that this is to be ignored. The IgnoreCreditControl flag will be set to true in this case as well. • Ignored Until - The Account was in credit control but an agent has indicated that it is to be ignored until a date specified in the IgnoreCreditControlUpToDate field above.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Account Type and Usage Response Container

The AccountTypeAndUsage response container is the response to the ACCOUNT_TYPE_AND_USAGE dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
AccountType	String6	Account Types indicate the type of account to which Subscriptions belong. This is a classification of the Account. If not supplied, the value that is defaulted in comes from the Account Default Parm's Maint. The field is ADVSalesPersonCode.	Optional
SubLedgerCode	String6	This references an extra level of detail in the General Ledger and links to the external financials software. The main use of this code is to enable direct debits to be claimed from the bank account. If not supplied, the value that is defaulted in comes from the Subledger field in Account Default Parm's Maint.	Optional
AccountUsage	String - Enumeration	This indicator controls what the account can be used for. Possible values are: • Subscription • Sales • SubscriptionAndSales (default) Subscriptions cannot be added to an Account when usage is Sales (usually referred to as a Hardware account). It is possible to add Subscriptions to a Subscription or to a SubscriptionAndSales (Both).	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

AccountSerialNumbers Response Container

The AccountSerialNumbers response container is the response to the ACCOUNT_SERIAL_NUMBERS dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
SerialNumberId	Range 1-999	The serial number identification number.	Mandatory
SerialNumberValue	String25	The actual serial number value for example 07712345678.	Mandatory
EffectiveDate	Date	The date from which the serial number becomes effective. YYYY-MM-DDZ	Optional
SerialStatus	String	The serial number status. Possible values are: • CHANGING • CURRENT • SUPERSEDED	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

CustomerDetails Response Container

The CustomerDetails response container is the response to the CUSTOMER_DETAILS dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
AccountPassword	String20	This is used for security purposes if it is necessary to control caller access. This password can work instead of, or in conjunction with, a Subscription password.	Optional
AccountPIN	Integer4	System generated unique personal identification number. Active if Interactive Voice Recognition (IVR) is introduced.	Optional
ForAttnOfName	String30	Details of the name that appears on statements, copy invoices, etc.	Optional
AccountContactName	String30	Details of a personal contact within the customer's organisation.	Optional
CustomerCostCentre	String20	Codes are used to allocate responsibility of charges to different areas within an organisation. The customer purchase ledger cost centre can be entered here to be printed on all invoices. New cost centres can be added to the list at Agreement level.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

SubscriptionInvoiceControl Response Container

The SubscriptionInvoiceControl response container is the response to the SUBSCRIPTION_INVOICE dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
GenericText	Boolean	This allows standard text messages to appear on the invoice. If set to True, any company notices, instructions, warnings, etc. appear on all invoices produced.	Optional
OverrideTaxCode	Boolean	If set to True, the tax code on specific services is ignored. Instead the tax code from the Account level within the external finance package customer file is used.	Optional
PrintStatement	Boolean	If set to True, statements for non-subscription related services are issued. Otherwise they are included within the usage invoice.	Optional
BillingMediaCode	String6	Account = Non-subs invoicing (Adjustments / Orders etc)	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

NonSubscriptionInvoiceControl Response Container

The NonSubscriptionInvoiceControl response container is the response to the NON_SUBSCRIPTION_INVOICE dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
PrintStatement	Boolean	If set to True, statements for Non-Subscription related Services are issued. Otherwise they are included within the usage invoice.	Optional
PrintStatementBillingMediaCode	String6	This indicates the medium used to issue Non-Subscription Statements.	Optional
ConsolidateInvoice	Boolean	When Invoice Print is run, if ConsolidateInvoice is set to True, the relevant invoices are consolidated to Account level.	Optional
ConsolidateInvoiceBillingMediaCode	String6	This indicates the medium used to issue Non-Subscription consolidated Invoices.	Optional
FirstInvoice	Date	The date on which the first invoice was produced. YYYY-MM-DDZ	Optional
LastInvoice	Date	The date on which the previous invoice was produced. YYYY-MM-DDZ	Optional
NextExpectedInvoice	Date	The date of the next expected Invoice (as per billing cycle). YYYY-MM-DDZ	Optional
SubsequentInvoiceFrequency	Container	Choice of: - SubsequentInvoiceFrequencyDays - SubsequentInvoiceFrequencyMonths See SubsequentInvoiceFrequency Response Container Response for further information.	Optional
DelayToCycle	Integer	A Non-Subscription invoice can be aligned to be produced on the same	Optional

Element Name	Content Type	Description	Required?
		day as the usage invoice. This element indicates if a Non-Subscription invoice is produced at the same time as the usage invoice.	
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

SubsequentInvoiceFrequency Response Container

The SubsequentInvoiceFrequency response container has the following elements:

Element Name	Content Type	Description	Required?
SubsequentInvoiceFrequencyDays	Integer	This indicates the number of days between each invoice date. - Min Inclusive: 1 - Max Inclusive: 31	Optional
SubsequentInvoiceFrequencyMonths	Token	This indicates the number of months between each invoice date. [0] [1-9] [1] [0-2]	Optional

Services Response Container

The Services response container is the response to the SERVICES dataset specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
Service	Container	See Service Response Container for details.	Optional

Service Response Container

The Service response container has the following elements:

Element Name	Content Type	Description	Required?
ServiceCode	String6	This details the code attributed to the Service as it appears on the invoice.	Mandatory
PackageCode	String6	The unique code within a company used to identify which Package the service is linked to.	Optional
Package Description	String30	The descriptive name for the Package that the service is linked to.	Optional
Description	String30	This details the descriptive text (30-characters) attributed to the Service as it appears on the invoice.	Optional
ServicePrice	Currency (Decimal)	The price of the Service. - Min Inclusive: 0.01 - Max Inclusive: 999999999.99	Optional
EffectiveDate	Date	This is the date from which the Service becomes effective. YYYY-MM-DDZ	Optional
ExpiryDate	Date	This is the date on which the Service is set to expire. YYYY-MM-DDZ	Optional
IncdInTermCostCalc	Boolean	This indicates if a particular Service is included in the termination cost calculation.	Optional
PriceConsolidationService		Applicable to Subscription Services only. This enables the chosen Service to become part of one consolidated Service, which is several chargeable Subscription Services grouped together to appear on the Subscription invoice as one Service with one charge or price against it.	Optional

Element Name	Content Type	Description	Required?
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional



A Service container is returned for each active Account Service.

Card Response Container

The Card response container is the response to the CREDIT_DEBIT_CARDS dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionNumber	Integer8	The unique system generated Reference Number for the Subscription.	Optional
NetworkSerialNumber	String25	Network Serial Number associated with CMP Subscription Number.	Optional
PaymentType	String6	The type of credit / debit card to be used (for example VISA).	Mandatory
Status	String	One of the following: - OneOffPayment - Indicates that the card is for one off payments - Active - Indicates that the card is for recurring payments.	Mandatory
CardReference	VARCHAR (100)	The tokenised string representing the card.	Mandatory
CardNumber	String4	The last four digits of card number.	Optional
NameOnCard	String20	The name that appears on the card.	Optional
StartYear	String2	Start year on the card.	Optional
StartMonth	String2	Start month on the card.	Optional
ExpiryYear	String2	Expiry year on the card.	Optional
ExpiryMonth	String2	Expiry month on the card.	Optional

AttributeGroup Response Container

The AttributeGroup response container is the response to the ATTRIBUTES dataset when specified in the QueryAccount request. It returns the following processing results:

Element Name	Content Type	Description	Required?
AttributeGroupID	String6	A unique ID for the Attribute Group. For example, 03A. Each account can have only a single effective Attribute Group at any one time	Mandatory
EffectiveDate	dateTime	The date from which the Attribute Group becomes effective. YYYY-MM-DDThh:mm:ssZ	Optional
Attribute	Container	Attributes are a configurable list of values that can be associated with entities such as Price Plans and Packages to provide more information on it. See Attribute Response Container for details.	Mandatory

Attribute Response Container

The Attribute response container has the following elements:

Element Name	Content Type	Description	Required?
AttributeID	Integer2	A unique ID for the Attribute. For example, 01. This is chosen from a list of Attributes configured against the chosen Attribute Group in CMP disEMP Back Office configuration.	Mandatory
AttributeValue	String120	A full Description of the Attribute. For example, Dedicated Lease Line Connection.	Optional
EffectiveDate	dateTime	The date on which the Attribute becomes effective. YYYY-MM-DDThh:mm:ssZ	Optional

TerminationFee Response Container

The TerminationFee response container is the response to the TERMINATION_FEE dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
TerminationFee	Currency (Decimal)	Monetary value that will be charged if a subscriber decides to leave their contract early.	Optional

DLPPorts Response Container

The DLPPorts response container is the response to the DLP_PORT dataset when specified in the QueryAccount request. It has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionNumber	Integer8	The Subscription Number that has port in information associated with it. Each Subscription may have more than one Port-in returned (if for instance a pending Port-in was cancelled and then initiated again).	Mandatory
PACCode	String9	Standard PAC format.	Mandatory
PACExpiryDate	Date	The date that the PAC expires.	Mandatory
PACCreationDate	Date	The date on which the PAC was created on.	Mandatory
RNO	String2	The Recipient Network Operator. This is the code that comes from Syniverse.	Optional
DNO	String2	The Donor Network Operator. This is the code that comes from Syniverse.	Mandatory
RSP	String3	The Recipient Service Provider. This is the code that comes from Syniverse.	Optional
DSP	String	The Donor Service Provider. This is the code that comes from Syniverse.	Mandatory
PortDate	Date	YYYY-MM-DDZ The date on which the number is scheduled to Port-in.	Optional
PortStatus	Enumeration	The current status of the Port-in. Possible values for PortStatus are as follows: CLOSED - This is the status of the port after the customer has	Mandatory

Element Name	Content Type	Description	Required?
		agreed to Port-in but prior to porting. The Port-in will retain this status until between 18:00 and 22:00 on the day before. • LOCKED - This is the PAC status between 18:00 and 21:00 on the day before. This status will only be displayed in the Online Portal if an agent queries Syniverse between 18:00 and 21:00, and the customer subsequently looks at the Port ins on the Online Portal. The web service does not query Syniverse unless an agent explicitly does so, the CLOSED status will be returned. • IN_PROGRESS - This is the status in which the Port-in will be from 22:00 on the day before the Port-in until the Port-in event is completed. • COMPLETE - This is the status when Port-in commands have been sent to the network and CMP has received a successful response. • CANCELLED - Indicates a Port-in request was cancelled. • ERROR - This is the status of the Port-in once the Port-in has been completed but CMP has received an error.	

Element Name	Content Type	Description	Required?
Cancellable	Boolean	This indicates whether or not it is possible to cancel a CLOSED PAC (an in progress Port-in). This only affects online Port-ins. Changes will still be allowed via AgentView until rejected by Syniverse.	Optional
NumberBeingPortedIn	String25	The mobile number being ported in.	Mandatory
NumberBeingReplaced	String25	The mobile number that is being replaced. This is not available when the PortStatus = COMPLETE.	Optional

2.2.6 UpdateAccountDetails

The UpdateAccountDetails web service enables an external client system to update Account information for existing CMP Accounts.

In order to update the Account details, the user must pass in a valid CMP Account Number along with the relevant information to be updated.

Users are able to update individual attributes of the Account details as per the Edit Account panel. Invalid requests are rejected with an error message.

The [Update Account Details Response](#) returns a failure response if:

- The Hardware Account belongs to one of the Account Types specified in the Maintain Account Type table
- The Hardware Credit Limit entered is blank or zero

2.2.6.1 UpdateAccountDetails Request

The UpdateAccountDetails tag instructs the Account Service to update Account details. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer 0-99999999-9	The number automatically allocated to the Account upon creation in CMP.	Mandatory
UpdateAccountBasic	Container	See UpdateAccountBasic Request Container for details.	Optional
UpdateAccountTypeAndUsage	Container	See UpdateAccountTypeAndUsage Request Container for details.	Optional
UpdateCustomerDetails	Container	See UpdateCustomerDetails Request Container for details.	Optional
UpdateCreditControl	Container	See UpdateCreditControl Request Container for details.	Optional
UpdateSubscriptionInvoiceControl	Container	See UpdateSubscriptionInvoiceControl Request Container for details.	Optional
UpdateNonSubscriptionInvoiceControl	Container	See UpdateNonSubscriptionInvoiceControl Request Container for details.	Optional
UpdateAutoPayments	Container	See UpdateAutoPayments Request Container for details.	Optional

UpdateAccountBasic Request Container

The UpdateAccountBasic request container has the following elements:

Element Name	Content Type	Description	Required?
AddressNumber	Integer8	The Account level delivery address number which is one of the several delivery addresses available in the system.	Optional
PaymentTerms	String3	The agreed terms of payment, e.g. within 14 days of invoice date.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

UpdateAccountTypeAndUsage Request Container

The UpdateAccountTypeAndUsage request container has the following elements:

Element Name	Content Type	Description	Required?
AccountType	String6	Account Types indicate the type of Account to which Subscriptions belong, for example, 001 = VIP, 002 = Bad Debt. This is a classification of the Account. If not supplied, the value that is defaulted in comes from the Account Default Parm Maint. The field is ADVSalesPersonCode.. Value provided must be a valid Account Type.	Optional
SubLedgerCode	String6	This is used if the business is involved in Internet, gas, mobile, etc. This references an extra level of detail in the General Ledger and can link to external financials software. The code is used to enable direct debits to be claimed from the bank account. If not supplied, the value that is defaulted in comes from the Subledger field in Account Default Parm Maint. Value must be a valid Sub Ledger Code.	Optional
AccountUsage	String1	This indicator controls what the Account can be used for. If no value is supplied then this defaults to SubscriptionAndSales/Both. Valid values are Subscription, SubscriptionAndSales and Sales. These appear in AgentView as - Subscription = Subscription - SubscriptionAndSales = Both	Optional

Element Name	Content Type	Description	Required?
		Sales = Sales Order Subscriptions cannot be added to an account when usage is Sales (usually referred to as a Hardware account). It is possible to add Subscriptions to a Subscription or to a SubscriptionAndSales (Both).	
CorrespondingAccount	Integer8	The number of an associated Account, e.g. equipment only. Usage Accounts can be linked to an equipment Account and vice versa. There is a find facility to locate alternative addresses.	Optional
AccountServiceAgreement	Integer8	This is used to enter the number of an active Account's services agreement. A single agreement from within the same structure as the account is required to control the billing pattern of all of an account's services.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

UpdateCustomerDetails Request Container

The UpdateCustomerDetails request container has the following elements:

Element Name	Content Type	Description	Required?
AccountPassword	String20	This is used for security purposes if it is necessary to control caller access. This password can work instead of, or in conjunction with, a subscription password.	Optional
AccountPIN	Integer4	System generated unique personal identification number. Could become active if Interactive Voice Recognition (IVR) is introduced.	Optional
ForAttnOfName	String30	This details of the name that appears on statements, copy invoices, etc.	Optional
AccountContactName	String30	This details of a personal contact within the customer's organisation.	Optional
Comments	String30	An entry can be made to inform the CSA user about the customer, previous contacts or any other pertinent points in respect of credit scoring.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

UpdateCreditControl Request Container

The UpdateCreditControl request container has the following elements:

Element Name	Content Type	Description	Required?
CreditLimit	Integer9	The customers spending limit. This includes billed charges and can work independently, or in conjunction with the value of unbilled usage. However, the procedure is not related to Credit Management as recovery may begin earlier than a scheduled Credit Management procedure.	Optional
HardwareCreditLimit	Integer9	Hardware Only Credit Limit.	Optional
CreditScore	Integer	The rating given to the customer by the Credit Reference Agency during the credit checking process.	Optional
IgnoreCreditControl	Boolean	This cancels the whole Credit Control process up to a specified date.	Optional
IgnoreCreditControlUpToDate	Date	The date until which Credit Control is ignored. Works in conjunction with the Ignore Credit Control field. Choice of: • <Value> • <Clear> YYYY-MM-DDZ	Optional
IgnoreUsageLimits	Boolean	If true, this means the customer is not notified when either their lower or upper usage limit is reached, and no auto response is triggered. This affects all Subscriptions linked to the Account.	Optional

Element Name	Content Type	Description	Required?
AccountInQuery	Boolean	If true, this indicates that an element of the balance outstanding is being held out from recovery procedures while a customer query is addressed.	Optional
CreditControlAddressNumber	Integer 0-99999999	The unique number associated with this type of address, which is one of several delivery addresses available in CMP.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDTh-h:mm:ssZ	Mandatory

UpdateSubscriptionInvoiceControl Request Container

The UpdateSubscriptionInvoiceControl request container has the following elements:

Element Name	Content Type	Description	Required?
GenericText	Boolean	This allows standard text messages to appear on the invoice. If set to true, any company notices, instructions, warnings, etc. appear on all invoices produced.	Optional
OverrideTaxCode	Boolean	If set to True, the tax code on specific services is ignored. Instead the tax code from the Account level within the external finance package customer file is used.	Optional
PrintStatementSubscription	Boolean	If set to True, statements for non-subscription related services are issued. Otherwise they are included within the usage invoice.	Optional
PrintStatementSubscriptionFormat	String30	This indicates the medium used to issue non-subscription statements (e.g. A4 with two columns).	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

UpdateNonSubscriptionInvoiceControl Request Container

The UpdateNonSubscriptionInvoiceControl request container has the following elements:

Element Name	Content Type	Description	Required?
PrintStatementInvoice	Boolean	If set to True, statements for Non-Subscription related services are issued. Otherwise they are included within the usage invoice.	Optional
PrintStatementInvoiceFormat	String30	This indicates the medium/format used to issue Non-Subscription statements (e.g. A4 with two columns).	Optional
StatementFormatInvoiceFormat	String30	This indicates the medium/format used for Non-Subscription invoices (e.g. A4 with two columns).	Optional
FirstInvoice	Date	The date on which the first invoice was produced. YYYY-MM-DDZ	Optional
SubsequentInvoiceFrequency	Container	Choice of: - SubsequentInvoiceFrequencyDays - SubsequentInvoiceFrequencyMonths See the SubsequentInvoiceFrequency Response Container response container for further information.	Optional
DelayToCycle	Integer	Any Non-Subscription invoice can be aligned to be produced on the same day as the usage invoice.	Optional
ConsolidationNonSubscriptionInvoice	Boolean	When Invoice Print is run, if the Consolidate Non Subscription Invoice is set to True, the relevant invoices are consolidated to Account level.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

SubsequentInvoiceFrequency Response Container

The SubsequentInvoiceFrequency response container has the following elements:

Element Name	Content Type	Description	Required?
SubsequentInvoiceFrequencyDays	Inter	This indicates the number of days between each invoice date: • Min Inclusive: 1 • Max Inclusive: 31	Optional
SubsequentInvoiceFrequencyMonths	Token	This indicates the number of months between each invoice date: • [0] [1-9] • [1] [0-2]	Optional

UpdateAutoPayments Request Container

The UpdateAutoPayments request container has the following elements:

Element Name	Content Type	Description	Required?
AutoPaymentCalcMethod	String	There are two options for this field which refers to direct debit/automatic account withdrawals only. - CHILD (Child balance) - PARENT (Parent balance). If set to CHILD, only payments corresponding to the account being changed are pulled. If set to PARENT, payments are pulled from all accounts linked to the parent of the account being viewed.	Optional
SuspendFromAutoPayment	Boolean	Once flagged the auto payment is suspended.	Optional
SuspendUpToDueDate	Date	The date entered relates to the start of the period during which auto payments are suspended. Choice of: <Value> <Clear> YYYY-MM-DDZ	Optional
SuspendDueDateUntil	Date	The date entered relates to the end of the period during which auto payments are suspended. Choice of: <Value> <Clear> YYYY-MM-DDZ	Optional
SuspensionReason	String90	The reason why the account is suspended from auto payment.	Optional

Element Name	Content Type	Description	Required?
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

2.2.6.2 UpdateAccountDetails Response

The UpdateAccountDetails response is the response to the [UpdateAccountDetails Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2. 2. 7 Update Account Serial Number

The Update Account Serial Number web service enables an external client system to update an existing Account Serial Number stored in CMP.

2.2.7.1 UpdateAccountSerialNumber Request

The UpdateAccountSerialNumber tag instructs the Account Service to update the Account level Serial Number specified. This request contains the following elements:

Element Name	Content Type	Description	Required?
External Reference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The number automatically allocated to the Account upon creation in CMP.	Mandatory
SerialNumberId	Range 1-999	The Managed Serial Number identification number. Value specific must be a valid Managed Serial Number ID that has been configured in CMP.	Mandatory
SerialNumberValue	String25	The actual network serial number (e.g. mobile phone number).	Mandatory
LastAmendedDate	dateTime	The date and time at which the Account was last amended. YYYY-MM-DDThh:mm:ssZ	Mandatory

2.2.7.2 UpdateAccountSerialNumber Response

The UpdateAccountSerialNumber response is the response to the [UpdateAccountSerialNumber Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.2.8 UpdateRecurringPaymentDetails

The UpdateRecurringPaymentDetails web service enables an external client system to update the recurring payment type for a given Account Number.

For example, this could be changing Direct Debit Payment Type to Credit Card or vice versa.

Updating a recurring payment type is a two-step process:

- The user cancels the existing payment type of the Account.
- The user passes in a valid CMP Account Number, new recurring payment type and new payment details to add the new payment type of the Account.

This UpdateRecurringPaymentDetails web serviceshould be used in conjunction with the Query Account Details Service.

Invalid requests, such as attempting to change to another recurring Payment Type (for example **Credit Card**) without first cancelling the existing payment type (for example, **Direct Debit**), are rejected with an error message.

CMP supports two types of direct debit schemes: BACS and SEPA. Only one scheme can be used at any one time.

2.2.8.1 UpdateRecurringPaymentDetails Request

The UpdateRecurringPaymentDetails tag instructs the Account Service to update recurring payment details. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	Number of the existing Account which the change to recurring payment applies to.	Mandatory
PaymentType	String6	Automatic Payments for example: DEBIT = Debit or CREDIT = Credit.	Mandatory
PaymentTerm	String3	The agreed terms of payment, e.g. within 14 days of invoice date.	Optional
PaymentDetails	Container	Choice of: - PaymentCardDetails - DirectDebitDetails See PaymentDetails Request Container for details.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ This needs to be the last amended date returned by calling the QueryAccount web service passing in a dataset dependent on the type of amendment: If the Account is changing from a Manual (e.g. Cheque, Giro, etc) payment type to either a Direct Debit or Payment Card, the Last Amended Date supplied must be that from the Account Query, Payment Details dataset. If the Account is changing from either Direct Debit or Payment Card to Manual, then the last amended date supplied must be that from the Account Query, Basic dataset. If the attributes of a Direct Debit or Payment Card are changing, e.g. updating the Bank Account Number, then the Last Amended Date supplied must be that from the Account Query, Payment Details dataset.	Mandatory
AuditRecord	Container	See AuditRecord Request Container for details.	Optional

PaymentDetails Request Container

The PaymentDetails request container has the following elements:

Element Name	Content Type	Description	Required?
PaymentCardDetails	Container	Choice of: - PaymentCard - CancellationInformation - PaymentCardToken See Payment Card Details Request Container for details.	Mandatory
DirectDebitDetails	Container	Choice of: - DirectDebit - CancellationInformation See DirectDebitDetails Request Container for details.	Mandatory

PaymentCardDetails Request Container

The PaymentCardDetails request container has the following elements:

Element Name	Content Type	Description	Required?
PaymentCardToken	Container	The PaymentCardToken container will only be accepted if the PCI Compliance Toolbox feature is switched on. See Payment Card Token Request Container for details.	Mandatory
CancellationInformation	Container	See CancellationInformation Request Container for details.	Mandatory

PaymentCardToken Request Container

The PaymentCardToken request container has the following elements:

Element Name	Content Type	Description	Required?
CardReference	VARCHAR(100)	The tokenised string representing the card.	Mandatory
CardNumber	String4	Last four digits of the card number.	Optional
NameOnCard	String20	The name that appears on the card.	Optional
StartYear	String2	Start year on the card.	Optional
StartMonth	String2	Start month on the card.	Optional
ExpiryYear	String2	Expiry year on the card.	Optional
ExpiryMonth	String2	Expiry month on the card.	Optional

If the PCI-compliant toolbox feature is turned on, any card details not found in this container are rejected. These are as follows:

Element Name	Content Type	Description	Required?
CCDCCardNumber	String20	The actual number of the credit or debit card.	Optional
NameOnCard	String20	Name of the cardholder exactly as displayed on the card.	Optional
StartYear	String2	Start year on the card.	Optional
StartMonth	String2	Start month on the card.	Optional
ExpiryYear	String2	Expiry year on the card.	Optional
ExpiryMonth	String2	Expiry month on the card.	Optional
CreditSecurityCode	String6	The card security code used. On many card types it is the last group of digits on the signature panel at the back of the card.	Optional

CancellationInformation Request Container

The CancellationInformation request container has the following elements:

Element Name	Content Type	Description	Required?
ReasonCode	String4	The valid cancellation reason depends on what is being cancelled, e.g. Credit Card/ Debit Card etc. In the case of a payment card (credit card/debit card) the valid reason codes are defined in the Core Reason Type Maint. screen keyed by a type code of CDCAN.	Mandatory
CancellationDate	Date	YYYY-MM-DDZ If a cancellation reason code has been entered then a cancellation date must also be entered.	Mandatory

DirectDebitDetails Request Container

The DirectDebitDetails request container has the following elements:

Element Name	Content Type	Description	Required?
DirectDebit	Container	See Direct Debit Request Container for details.	Mandatory
CancellationInformation	Container	See CancellationInformation Request Container for details.	Mandatory

DirectDebit Request Container

The DirectDebit request container has the following elements:

Element Name	Content Type	Description	Required?
DDAccountName	String60	The name of the account or account holder.	Optional
BankAccountNumber	String20	The bank account from which the payments will be made. This is applicable to BACS.	Optional
BankSortCode	String20	The code of the bank branch which holds the account.	Optional
NameOfPayer	String30	The name of the person instigating the direct debit. Use the following format for this field: "First name<space>Last name"	Optional
DateMandateReceived	date	Choice of: • <Value> • <Clear> This is the date that the DD mandate was received. For electronic forms of DD Mandate this should be set to the current date. For paper mandates, it is the date that the mandate was received by the relevant back office individual. YYYY-MM-DDZ	Optional
DirectDebitSetupMethodCode	String6	The unique code for the set up method used. For example, PDD - Paperless Direct Debit (Phone).	Optional

CancellationInformation Request Container

The CancellationInformation request container has the following elements:

Element Name	Content Type	Description	Required?
ReasonCode	String4	The valid cancellation reason depends on what is being cancelled, e.g. Credit Card/ Debit Card etc. In the case of a payment card (credit card/debit card) the valid reason codes are defined in the Core Reason Type Maint. screen keyed by a type code of CDCAN.	Mandatory
CancellationDate	Date	YYYY-MM-DDZ If a cancellation reason code has been entered then a cancellation date must also be entered.	Mandatory

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserId	String10	User ID associated with the profile. It is the ID that the calling program will use on the records that are created.	Mandatory
Program	String10	The Program Name should be hard coded in the calling application so as to uniquely identify that application.	Mandatory

2.2.8.2 UpdateRecurringPaymentDetails Response

The UpdateRecurringPaymentDetails response is the response to the [UpdateRecurringPaymentDetails Request](#). This contains the following elements:

Element Name	Content Type	Description	Required
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.2.8.3 Failure Scenarios

Bank account validation failure scenarios are in place for the UpdateRecurringPaymentDetails web service.

Examples are given below:

Fault-Response-CMP-Setup

```

    <Details>
      <MessageId>mds.dise3g.validation</MessageId>
      <MessageText>Validation errors in the data submitted
for the request</MessageText>
    </Details>
    <Errors>
      <Error>
        <MessageId>EXTERNAL_VALIDATION_CONFIG_ERROR</Mes-
sageId>
        <MessageText>Failed to perform external Bank Val-
idation - CMP Setup error. Either the Webservice Endpoint Address
or the WSDL Location URL must be set.</MessageText>
        <ExtraInfo>Either the Webservice Endpoint Address
or the WSDL Location URL must be set.</ExtraInfo>
      </Error>
    </Errors>

```

Fault-Response-Timeout

```

    <Details>
      <MessageId>mds.dise3g.validation</MessageId>
      <MessageText>Validation errors in the data submitted
for the request</MessageText>
    </Details>
    <Errors>
      <Error>
        <MessageId>EXTERNAL_VALIDATION_SYSTEM_ERROR</Mes-
sageId>
        <MessageText>Failed to perform external Bank Val-
idation. javax.xml.ws.soap.SOAPFaultException: java.net.Sock-
etTimeoutException: Socket operation timed out before it could be
completed</MessageText>
        <ExtraInfo>javax.xml.ws.soap.SOAPFaultException:
java.net.SocketTimeoutException: Socket operation timed out
before it could be completed</ExtraInfo>
      </Error>
    </Errors>

```

Fault-Response-Multiple-Third-Party-Faults

```

    <Details>
      <MessageId>mds.dise3g.validation</MessageId>
      <MessageText>Validation errors in the data submitted
for the request</MessageText>

```

```

        </Details>
        <Errors>
            <Error>
                <MessageId>EXTERNAL_VALIDATION_REJECTION</Mes-
sageId>
                <MessageText>Rejected by external Bank Validation
- [B-VA0001] Invalid Sort Code (Bank Wizard) [E1][B-VA0002]
Invalid Account Number (Bank Wizard) [E4] Orig Invalid Account
Number</MessageText>
                <ExtraInfo>[B-VA0001] Invalid Sort Code (Bank Wiz-
ard) [E1][B-VA0002] Invalid Account Number (Bank Wizard) [E4]
Orig Invalid Account Number</ExtraInfo>
            </Error>
        </Errors>

```

Fault-Response-Negative-Validation-Result

```

        <Details>
            <MessageId>mds.dise3g.validation</MessageId>
            <MessageText>Validation errors in the data submitted
for the request</MessageText>
        </Details>
        <Errors>
            <Error>
                <MessageId>EXTERNAL_VALIDATION_REJECTION</Mes-
sageId>
                <MessageText>Rejected by external Bank Validation
- [B-VA0002] Invalid Account Number (Bank Wizard) [E4]</Mes-
sageText>
                <ExtraInfo>[B-VA0002] Invalid Account Number (Bank
Wizard) [E4]</ExtraInfo>
            </Error>
        </Errors>

```

Fault-Response-No-Connection

```

        <Details>
            <MessageId>mds.dise3g.validation</MessageId>
            <MessageText>Validation errors in the data sub-
mitted for the request</MessageText>
        </Details>
        <Errors>
            <Error>
                <MessageId>EXTERNAL_VALIDATION_SYSTEM_ERROR</Mes-
sageId>

```

```

        <MessageText>Failed to perform external Bank Val-
        idation. javax.xml.ws.soap.SOAPFaultException: java.net.Con-
        nectException: A remote host refused an attempted connect
        operation.</MessageText>
        <ExtraInfo>javax.xml.ws.soap.SOAPFaultException:
        java.net.ConnectException: A remote host refused an attempted
        connect operation.</ExtraInfo>
    </Error>
</Errors>

```

Fault-Response-Precheck

```

    <Details>
        <MessageId>mds.dise3g.validation</MessageId>
        <MessageText>Validation errors in the data submitted
        for the request</MessageText>
    </Details>
    <Errors>
        <Error>
            <MessageId>EXTERNAL_VALIDATION_PRECHECK_
            ERROR</MessageId>
            <MessageText>Failed to perform external Bank Val-
            idation - check request data. ValidateBankDetailsRequest:
            bankCode exceeds max length 6</MessageText>
            <ExtraInfo>ValidateBankDetailsRequest: bankCode
            exceeds max length 6</ExtraInfo>
        </Error>
    </Errors>

```

2.3 Address Service

The information in this section corresponds to the CMP web services as specified in the addressservice.wsdl.

The following web services are included:

- [Create Address](#)
- [Create Email Address](#)
- [Query Emails](#)
- [Remove Email](#)
- [Update Address](#)

2.3.1 Address Configuration

Mandatory or optional configuration field setup of personal and business address details via web services is also available. Any web services passing personal and, or business

addresses into CMP incorporates the business rules that are set as per the appropriate personal and, or business address field validation in CMP setup.

2.3.2 CreateAddress

The CreateAddress web service enables an external client system to create a personal or business address.

2.3.2.1 CreateAddress Request

The CreateAddress tag instructs the Address Service to create an address. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AddressData	Container	Choice of: • PersonalAddress - see PersonalAddress Request Container • BusinessAddress - see BusinessAddress Request Container	Mandatory

PersonalAddress Request Container

The PersonalAddress request container has the following elements:

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Mandatory
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD. The user can also clear the current date of birth set by specifying CLEAR_FIELD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Seper-	Optional

Element Name	Content Type	Description	Required?
		ated or BLANK.	
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the available Customer Types configured in CMP.	Optional
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional

CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set

up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Request Container

The BusinessAddress request container has the following elements:

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Mandatory
Address3	String40	Line three of the company's address.	Mandatory
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides. Configurable CMP list.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional

Element Name	Content Type	Description	Required?
DateOfIncorporation	Date	The date the company register at the address specified, in the format YYYY-MM-DD.	Optional
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact sur-name name.	Optional
JobTitle	String30	Company's contact job title.	Optional

CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

2.3.2.2 CreateAddress Response

The CreateAddress response is the response to the [CreateAddress Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Reference in the request is passed back in the response.	Optional
AddressNumber	Integer8	Delivery Address Number of new address.	Mandatory

2.3.3 CreateEmailAddress

The CreateEmailAddress web service enables an external client system to create an email address at any level of the CMP hierarchy.

This service should be used in conjunction with the following services (to obtain the current primary email address):

- [Query Subscription Details](#)
- [Query Account](#)

- [Query Corporate](#)
- [Query Group](#)

The user must pass an identifier for the appropriate level of the hierarchy at which the new email address should be created, along with the email address type. In addition, the user is able to set the new email address as their primary email address.

2.3.3.1 CreateEmailAddress Request

The CreateEmailAddress tag instructs the Address Service to create an email address. This request contains the following elements:

Element Name	Content Type	Description	Required?
EmailData	Container	See EmailData Request Container for details.	Mandatory

EmailData Request Container

The EmailData request container holds details of email data. It has the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
EmailAddress	String70	This adds an e mail address with the default email address type. The default e-mail address type is defined in setup. The email address entered must be a validly formatted email address.	Mandatory
PrimaryEmailAddress	Boolean	Indicates whether this is to be the primary email address or not.	Mandatory
TargetIdentifier	Container - Choice	Choice of: - Group Identifier (String6) - Corporate Identifier (String6) - Account Identifier (Integer8) - Subscription Identifier (Integer8)	Mandatory
EmailAddressType	String6	The types and the default email type can be defined via setup. The Email Type supplied must be a valid email type as defined via setup.	Mandatory
AuditRecord	Container	See AuditRecord Request Container for details.	Optional

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	If specified, this will override the default User ID used when creating records as a result of this webservice.	Mandatory
Program	String10	If specified, this will override the default Program used when creating records as a result of this webservice.	Mandatory

2.3.3.2 CreateEmailAddress Response

CreateEmailAddress response is the response to the [CreateEmailAddress Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.3.4 QueryEmails

The QueryEmails web service enables an external client system to query email addresses at any level of the CMP hierarchy. The service accepts a Customer Level and Reference - for example Subscription Number, Account Number etc. All email addresses associated with the CMP hierarchy level are returned.

The user must pass in an identifier in order for the associated email addresses to be retrieved.

2.3.4.1 QueryEmails Request

The QueryEmails tag instructs the Address Service to query any level of the CMP hierarchy for an email address. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
TargetIdentifier	Container - Choice	Choice of: - GroupIdentifier (String6). - CorporateIdentifier (String6). - AccountIdentifier (Integer8). - SubscriptionIdentifier (Integer8).	Mandatory

2.3.4.2 QueryEmails Response

The QueryEmails response is the response to the [QueryEmails Address Request](#). It returns an array of email addresses. The response contains the following elements:

Element Name	Content Type	Description	Required?
Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
QueryLimitExceeded	Boolean	Set to True if the maximum number of records that may be returned as defined in the configuration, was exceeded.	Mandatory
TargetIdentifier	Container - Choice	Choice of: - GroupIdentifier (String6). - CorporateIdentifier (String6). - AccountIdentifier (Integer8). - SubscriptionIdentifier (Integer8).	Mandatory
Emails	Container	See EmailData Response Container for details.	Mandatory

Emails Response Container

The Emails response container has the following elements:

Element Name	Content Type	Description	Required?
Element Name	Content Type	Description	Required?
Email	Container	See Email response container for details.	Optional

Email Response Container

The Email response container has the following elements:

Element Name	Content Type	Description	Required?
EmailAddress	String70	This details the email address in standard format (e.g. name@network.com, or name@network.co.uk).	Mandatory
PrimaryEmailAddress	Boolean	Setting this to true makes the email address the primary contact address for correspondence.	Mandatory
EmailAddressType	String6	Address types include Home, Work, ISP.	Mandatory
Active?	Boolean	Setting to True makes the email address active.	Mandatory
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

2.3.4.3 RemoveEmail

The RemoveEmail web service enables an external system to remove an email address from a given level within the CMP hierarchy.

This is a change from the norm in that CMP does not usually delete things from the database. However, when AgentView carries out a change of email address, it does a Delete and an Add. This capability is also being provided to the customer to allow for a similar activity to be carried out externally.

2.3.4.4 Remove Email Request

The RemoveEmail Request tag instructs the Address Service to remove an email address from a given level within the CMP hierarchy. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
EmailAddress	String70	The specific email address to be deleted.	Mandatory
TargetIdentifier	Container - Choice	Choice of: - GroupIdentifier (String6). - CorporateIdentifier (String6). - AccountIdentifier (Integer8). - SubscriptionIdentifier (Integer8).	Mandatory

2.3.4.5 Remove Email Response

The RemoveEmail response is the response to the [RemoveEmail Request](#). This contains the following element:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.3.5 UpdateAddress

The UpdateAddress web service enables an external client system to update address information for all levels of the CMP hierarchy.

This service should be used in conjunction with the Address subset of the following services:

- [Query Subscription Details](#)
- [Query Account](#)
- [Query Corporate](#)
- [Query Group](#)
- [Query Agreement Details](#)

The user must pass an identifier for the appropriate level of the hierarchy in order to update the address details.

If an address is the same at all levels of the CMP hierarchy and the user changes the address at one particular level, the address at all the other levels also change.

2.3.5.1 Address Request

The Address tag instructs the Address Service to update the address. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AddressData	Container	See AddressData Container for details.	Mandatory
AuditRecord	Container	See AuditRecord Request Container for details.	Optional

AddressData Request Container

The AddressData request container contains the following elements:

Element Name	Content Type	Description	Required?
AddressNumber	String69	Obtained by issuing a Query Subscription request.	Mandatory
Address	Container	Choice of: - PersonalAddress - BusinessAddress	Mandatory
LastAmendedDate	dateTime	YYYY-MM-DDZ The date and time that the record was last changed.	Mandatory

PersonalAddress Request Container

The PersonalAddress request container has the following elements:

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Mandatory
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD. The user can also clear the current date of birth set by specifying CLEAR_FIELD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Separated or BLANK.	Optional

Element Name	Content Type	Description	Required?
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the available Customer Types configured in CMP.	Optional
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional

CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Request Container

The BusinessAddress request container has the following elements:

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Mandatory
Address3	String40	Line three of the company's address.	Mandatory
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides. Configurable CMP list.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional

Element Name	Content Type	Description	Required?
DateOfIncorporation	Date	The date the company register at the address specified, in the format YYYY-MM-DD.	Optional
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact sur-name name.	Optional
JobTitle	String30	Company's contact job title.	Optional

CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The Program Name should be hard coded in the calling application to uniquely identify that application.	Mandatory

2.3.5.2 UpdateAddress Response

UpdateAddress response is the response to the [UpdateAddress Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.4 Agreement Service

The information in this section corresponds to the CMP web services as specified in the `agreement.service.wsdl`.

The following web services are included:

- [Create Agreement](#)
- [Create Agreement Cost Centre](#)
- [Query Agreement](#)
- [Query Agreement Cost Centre](#)
- [Query Agreement By Customer Level](#)
- [Update Agreement](#)

2.4.1 CreateAgreement

The CreateAgreement web service enables an external client system to create an Agreement within CMP and assign it to a specified level of an existing CMP structure.

Standard CMP rules associated with creating an Agreement govern which values are mandatory or optional for the request. The user must specify the hierarchy level the Agreement should be logged at within the web service request (for example, Account, Corporate or Group).

The web service returns the newly created Agreement Number.

Submitting invalid data in the request will result in an error message.

2.4.1.1 CreateAgreement Request

The CreateAgreement tag instructs the Agreement Service to create an Agreement. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AgreementData	Container	A container tag for the low level agreement information. See AgreementData Request Container for details.	Mandatory

AgreementData Request Container

The AgreementData request container has the following elements:

Element Name	Content Type	Description	Required?
BillingCycle	Integer	Range 1-31 (Day of the month)	Optional
InvoiceConsolidatioLevel	String - Enumeration	Enumeration of: • Group • Corporate • Account • Subscription	Optional
InvoiceReceiptAddress	String - Enumeration	Enumeration of: • Group • Corporate • Account • Subscription In AgentView this field is "Send Invoice To" Valid values: • If Invoice Consolidation = Corporate, valid values are Agreement and Corporate • If Invoice Consolidation = Account, valid values are Account and Agreement • If Invoice Consolidation = Subscription, valid values are Subscription, Account and Agreement. • If Invoice Consolidation = Group, valid values are Agreement and Group (if a group exists in the structure).	Optional
NextExpectedInvoiceDate	Date	Defaults to the current billing cycle in the next month. YYYY-MM-DDZ	Optional
CorporateCode	String6	The Corporate to which the	Optional

Element Name	Content Type	Description	Required?
		Agreement will be added. If not specified, the Agreement will not be associated with any Corporate. Either Corporate Code, Group Code and Account Code has to be supplied.	
GroupCode	String6	The Group to which the Agreement will be added. If not specified, the Agreement will not be associated with any Group. Either Corporate Code, Group Code and Account Code has to be supplied.	Optional
AccountCode	Integer8	The Account to which the Agreement will be added. If not specified, the Agreement will not be associated with any Account. Either Corporate Code, Group Code and Account Code has to be supplied.	Optional
Billing Media	String6	Billing Media must be a valid Billing media code that has been set up.	Optional
Price Plan Code	String6	The unique CMP alpha-numeric code for the price plan associated with the agreement.	Optional

2.4.1.2 CreateAgreement Response

The CreateAgreement response is the response to the [CreateAgreement Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Conditional
AgreementNumber	Integer8	The unique system generated reference number for the agreement.	Mandatory

2.4.2 CreateAgreementCostCentre

The CreateAgreementCostCentre web service enables an external client system to create a Cost Centre within CMP and add it to an Agreement. The service is given the new Cost Centre value and the Agreement Reference to add it to.

2.4.2.1 CreateAgreementCostCentre Request

The CreateAgreementCostCentre tag instructs the Agreement Service to add a Cost Centre to an Agreement. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AgreementNumber	Integer8	The unique system generated reference number for the Agreement.	Mandatory
CostCentreCode	String20	The Cost Centre number/code as configured in CMP.	Mandatory
CostCentreDescription	String30	The customer provided description of the Cost Centre number/code, e.g. head office, sales department, etc.	Mandatory

2.4.2.2 CreateAgreementCostCentre Response

The CreateAgreementCostCentre response is the response to the [CreateAgreementCostCentres Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
AgreementNumber	Integer8	The unique system generated reference number for the agreement.	Mandatory

2.4.3 QueryAgreement

The QueryAgreement web service enables an external client system to query an Agreement and retrieve Agreement Summary details for any existing CMP Agreement.

The request supplies the number of the Agreement and a set of flags that determine the level of detail required.

Data sets exist for this web service which enables the user to pass in a single value in order to retrieve a specific subset of information. This response returns basic details similar to AgentView Agreement Summary, plus optional extra information determined by the request flags.

Submitting invalid data in the request will result in an error message.

2.4.3.1 QueryAgreement Request

The QueryAgreement request instructs the Agreement Service to query an Agreement. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AgreementNumber	Integer8	The unique system generated reference number for the Agreement.	Mandatory
AgreementQueryDatasets	Container	This container includes zero or more of the following datasets: • BASIC • ADDRESS • CONTRACTANDSALES (DEPRECATED) • INVOICECONTROL • SERVICES • DISCOUNTS	Mandatory

Sample QueryAgreement Request

BASIC

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/agreement/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:QueryAgreement>
      <def:Request>
        <!--You may enter the following 3 items in any order-->

        <!--Optional:-->
        <ExternalReference>?</ExternalReference>
        <AgreementNumber>3411286</AgreementNumber>
        <Datasets>
          <!--1 or more repetitions:-->
          <Dataset>BASIC</Dataset>
        </Datasets>
      </def:Request>
    </def:QueryAgreement>
  </soapenv:Body>
</soapenv:Envelope>

```


Address

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/agreement/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:QueryAgreement>
      <def:Request>
        <!--You may enter the following 3 items in any order-->

        <!--Optional:-->
        <ExternalReference>?</ExternalReference>
        <AgreementNumber>3411286</AgreementNumber>
        <Datasets>
          <!--1 or more repetitions:-->
          <Dataset>ADDRESS</Dataset>
        </Datasets>
      </def:Request>
    </def:QueryAgreement>
  </soapenv:Body>
</soapenv:Envelope>
```

Invoice Control

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/agreement/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:QueryAgreement>
      <def:Request>
        <!--You may enter the following 3 items in any order-->

        <!--Optional:-->
        <ExternalReference>?</ExternalReference>
        <AgreementNumber>3411286</AgreementNumber>
        <Datasets>
          <!--1 or more repetitions:-->
          <Dataset>INVOICECONTROL</Dataset>
        </Datasets>
      </def:Request>
    </def:QueryAgreement>
  </soapenv:Body>
</soapenv:Envelope>
```

2.4.3.2 QueryAgreement Response

QueryAgreement response is the response to the [QueryAgreementDetails Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
AgreementBasic	Container	See AgreementBasic Response Container for details.	Optional
Address	Container	Choice of: - PersonalAddress - BusinessAddress See AgreementAddress Response for details.	Optional
ContractAndSales (Deprecated)	Container	See ContractAndSales Response Container for details.	Optional
InvoiceControl	Container	See InvoiceControl Response Container for details.	Optional
CostCentres	Container	See CostCentres Response Container for details.	Optional

BASIC Response Container

The AgreementBasic response container is the response to the BASIC dataset when specified in the QueryAgreement request request. It contains the following elements:

Element Name	Content Type	Description	Required?
AgreementNumber	Integer8	The unique system generated reference number for the Agreement.	Optional
AgreementLoggedAt	Container	Choice of: - Group Code (String6). - Corporate Code (String6). - Account Number (Integer8).	Optional
Company	String6	The name of the company.	Mandatory
BillingCycle	Integer	This indicates which day of the month the invoice will be produced. Range 1-31 (Day of the Month)	Mandatory
InvoiceFrequency	Container	See InvoiceFrequency Response Container for further details.	Mandatory
TerminatedDate	Date	Once this date has been reached it will not be possible to link any further Subscriptions to the Agreement, although the Agreement remains valid for those Subscriptions already connected. YYYY-MM-DDZ	Optional
InvoiceConsolidationLevel	String - Enumeration	Determines whether single or multiple invoices will be produced. One of: - Group - Corporate - Account - Subscription	Mandatory
InvoiceLoggedAt	String - Enumeration	The level at which the Agreement is logged. One of: - Group - Corporate - Account - Subscription	Optional

Element Name	Content Type	Description	Required?
SuspendFromInvoicing	Boolean	Choice of true or false. If set to True then invoicing is suspended on the account.	Optional
InvoiceAddress	String	This indicates to which address invoices are mailed.	Mandatory
BillingMedia	String6	The unique code in which the invoice will be printed. Agreement.	Mandatory
AddressNumber	Integer8	Details the Account level delivery address number which is one of the several delivery addresses available in the system.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDTh-h:mm:ssZ	Optional

InvoiceFrequency Response Container

The InvoiceFrequency response container has the following elements:

Element Name	Content Type	Description	Required?
InvoiceFrequencyIn	String - Enumeration	This indicates how often invoices are produced. Choice of: - DAYS - MONTHS	Mandatory
InvoiceEvery	Integer8	This details the type of billing cycle frequency on which invoices will be produced (e.g. 1 month).	Mandatory

Sample AgreementBasic Response

```
<soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <ns2:QueryAgreementResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/agreement/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/fault/definition">
```

```

<ns2:Result>
  <ExternalReference>?</ExternalReference>
  <AgreementBasic>
    <AgreementNumber>3411286</AgreementNumber>
    <AgreementLoggedAt>
      <CorporateIdentifier>BK014</CorporateIdentifie-
r>

    </AgreementLoggedAt>
    MDS CEM001</Company>
    <BillingCycle>12</BillingCycle>
    <InvoiceFrequency>
      <InvoiceFrequencyIn>MONTHS</InvoiceFrequencyIn>
      <InvoiceEvery>1</InvoiceEvery>
    </InvoiceFrequency>
    <InvoiceConsolidationLevel>Account</InvoiceConsol-
idationLevel>

    <InvoiceLoggedAt>Account</InvoiceLoggedAt>
    <InvoiceAddress>Account</InvoiceAddress>
    <BillingMedia>A</BillingMedia>
    <AddressNumber>7427120</AddressNumber>
    <LastAmendedDate>2016-06-23T15:13:27Z</LastA-
mendedDate>
  </AgreementBasic>
</ns2:Result>
</ns2:QueryAgreementResponse>
</soapenv:Body>
</soapenv:Envelope>

```

Address Response Container

The Address response container is the response to ADDRESS dataset when specified in the QueryAgreement request. It contains the following elements:

Element Name	Content Type	Description	Required?
Address Number	Integer 0-99999999	This details the Account level delivery address number which is one of the several delivery addresses available.	Optional
Address	AddressType	Choice of: • PersonalAddress - see PersonalAddress Request Container • BusinessAddress - see BusinessAddress Request Container	Mandatory
Last Amended Date	dateTime	Last date on which the Address was amended.	Optional

PersonalAddress Response Container

The PersonalAddress response container has the following elements:

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Optional
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Separated or BLANK.	Optional
DateOfResidence	Date	The date from which the customer has lived at the	Optional

Element Name	Content Type	Description	Required?
		address specified, in the format YYYY-MM-DD.	
CustomerType	String10	Selected from one of the available Customer Types configured in CMP.	Optional
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Response Container

The BusinessAddress response container has the following elements:

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Optional
Address3	String40	Line three of the company's address.	Optional
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides. Configurable CMP list.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional

Element Name	Content Type	Description	Required?
DateOfIncorporation	Date	The date the company register at the address specified, in the format YYYY-MM-DD.	Optional
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact sur-name name.	Optional
JobTitle	String30	Company's contact job title.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

Sample Address Response

```
<soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>
<ns2:QueryAgreementResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/agreement/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/fault/definition">
<ns2:Result>
<ExternalReference>?</ExternalReference>
<Address>
<AddressNumber>7427129</AddressNumber>
<BusinessAddress>
<CompanyName>ABC DISTRIBUTION</CompanyName>
<Address1>BOUGHT LEDGER DEPT</Address1>
<Address2>24</Address2>
<Address3>WARRINGTON</Address3>
<Address4>SANKEY</Address4>
<Address5>CHES.</Address5>
<Postcode>WA0 0XX</Postcode>
```

```

<CompanyTelephoneNumber>0199999999</CompanyTelephoneNumber>
<FaxNumber/>
<ContactTelephoneNumber>0199999999</ContactTelephoneNumber>
<CompanyType/>
<AddressType/>
<AddressCategory/>
<IndustrialClassificationCode/>
<CompanyRegistration/>
<Title>MR</Title>
<Forename>ROBERT</Forename>
<MiddleName>A</MiddleName>
<Surname>SMITH</Surname>
<JobTitle/>
</BusinessAddress>
<LastAmendedDate>2016-10-09T14:12:04Z</LastAmendedDate>
</Address>
</ns2:Result>
</ns2:QueryAgreementResponse>
</soapenv:Body>
</soapenv:Envelope>

```

ContractAndSales Response Container



ContractAndSales response container was the response to the CONTRACTANDSALES dataset when specified QueryAgreement request. The UpdateContractAndSales request container has now been deprecated. An error message is returned for requests that specify this container.

InvoiceControl Response Container

The InvoiceControl response container is the response to the INVOICECONTROL dataset when specified in the QueryAgreement request. It contains the following elements:

Element Name	Content Type	Description	Required?
OverrideBillingCycle	Boolean	If set to True, the day on which the bill is produced can be overridden if more than one billing cycle date is available. For example, the date can be amended to fall in line with the day a customer receives their salary.	Optional
FirstInvoiceOnCycle	Boolean	If set to True, Invoice Production will be deferred to the next cyclical billing date (if connection occurs after the cycle date within the current month).	Optional
FinalInvoiceOnCycle	Boolean	The final Invoice Production is usually deferred to allow all receipt of all possible late roamed usage information from the network. If set to True, this deferral is prevented and the final bill is produced on the cycle date.	Optional
FirstInvoiceDate	Date	The date on which the first invoice was produced. YYYY-MM-DDZ	Optional
NextExpectedInvoiceDate	Date	The cycle date on which the very next invoice will be produced. YYYY-MM-DDZ	Optional
LastInvoiceDate	Date	The cycle date of the most recent invoice issued to the customer. It does not relate to the Final invoice. YYYY-MM-DDZ	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

2.4.4 Query Agreement Cost Centre

The QueryAgreementCostCentres web service enables an external client system to retrieve a list of Cost Centres associated with an Agreement up to a configurable limit, irrespective of the total number of Cost Centres attributed to an Agreement. The query limit protects the server against excessively large numbers of cost centres being retrieved.

2.4.4.1 QueryAgreementCostCentre Request

The QueryAgreementCostCentre request instructs the Agreement Service to query an Agreement for Cost Centres. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AgreementNumber	Integer8	The unique system generated reference number for the Agreement.	Mandatory
Datasets	Container	It is only possible to query using the BASIC dataset.	Mandatory

2.4.4.2 QueryAgreementCostCentre Response

The QueryAgreementCostCentre response has the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
QueryLimitExceeded	Boolean	Set to True if the maximum number of records that may be returned, as defined in the configuration, was exceeded.	Mandatory
AgreementCostCentres	Container	Zero or more repetitions of the CostCentre Container .	Optional

The response is returned sorted by ascending Cost Centre Code.

CostCentre Container

The CostCentre response container has the following elements:

Element Name	Content Type	Description	Required?
CostCentreCode	String20	The customer provided Cost Centre identifier.	Mandatory
CostCentreDescription	String30	The customer provided description of the Cost Centre identifier.	Mandatory
LastAmendedDate	dateTime	The date and time at which the Cost Centre was last amended. YYYY-MM-DDThh:mm:ssZ	Optional

2.4.5 QueryAgreementByCustomerLevel

The QueryAgreementByCustomerLevel web service enables an external client system to retrieve a list of Agreements associated with a customer's CMP Account and the levels above that Account within the related structure (Corporate and Group).

The user passes in a valid CMP Account Number in order to retrieve a list of all Agreements applicable to that level and the associated levels above, within the billing structure.

For each Agreement identified, the following information is returned:

- Agreement number
- Invoice logged at Customer Level
- Invoice logged at Customer Reference
- Invoice Consolidation Level
- Invoice Address Level

Submitting invalid data in the request will result in an error message.

2.4.5.1 QueryAgreementsByCustomerLevel Request

The QueryAgreementByCustomerLevel request instructs the Agreement Service to query an Agreement by Account. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountIdentifier	Integer8	The CMP automatically generated Account Number.	Mandatory

2.4.5.2 QueryAgreementsByCustomerLevel Response

The QueryAgreementsByCustomerLevel response is the response to the [QueryAgreementsByCustomerLevel Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response. Contains zero or more repetitions of Agreement.	Optional
Agreement	Container	See Agreement Response Container for details.	Mandatory

Agreement Response Container

The Agreement response container has the following elements:

Element Name	Content Type	Description	Required?
AgreementNumber	Integer8	The unique system generated reference number for the agreement.	Mandatory
InvoiceLoggedAt	Container	Choice of: - GroupIdentifier (String6) - CorporateIdentifier (String6) - AccountIdentifier (Integer8)	Optional
InvoiceConsolidationLevel	String	A single consolidated invoice can be produced at a chosen level within the billing hierarchy (i.e. Group, Corporate, Account, Subscription).	Optional
InvoiceAddress	String	This indicates to which address invoices are sent.	Optional

2.4.6 UpdateAgreement

The UpdateAgreement web service enables an external client system to update the Agreement details for a given Agreement Number.

This web service should be used in conjunction with the [Query Agreement](#) web service.

The user must pass in a valid CMP Agreement Number and update the Agreement details.

Invalid requests are rejected with an error message.

2.4.6.1 UpdateAgreement Request

The UpdateAgreement tag instructs the Agreement Service to update the Agreement details. This request contains the following elements:

Element Name	Content Type	Description	Required?
UpdateAgreementData	Container	See UpdateAgreementData Request Container for details	Mandatory

UpdateAgreementData Request Container

The UpdateAgreementData request container has the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AgreementNumber	Integer8	The unique system generated reference number for the Agreement.	Mandatory
UpdateAgreementBasic	Container	See UpdateAgreementBasic Request Container for details.	Optional
UpdateContractAndSales (Deprecated)	Container	See UpdateContractAndSales Request Container for details.	Optional
UpdateInvoiceControl	Container	See UpdateInvoiceControl Request Container for details.	Optional
AuditRecord	Container	See AuditRecord Request Container for details.	Optional

UpdateAgreementBasic Request Container

The UpdateAgreementBasic request container has the following elements:

Element Name	Content Type	Description	Required?
InvoiceFrequency	Container	This indicates how often invoices are produced. Choice of: - DayOfYear (Integer1-365) - MonthOfYear (Integer12)	Optional
InvoiceConsolidationLevel	String - Enumeration	A single consolidated invoice can be produced at a chosen level within the billing hierarchy. Choice of: - Group - Corporate - Account - Subscription	Optional
InvoiceAddress	String	This indicates to which address invoices are mailed.	Optional
BillingMedia	String6	The format in which the invoice is printed e.g. A4 paper.	Optional
AddressNumber	Integer 0-99999999	This details the Account level delivery address number which is one of the several delivery addresses available.	Optional
AttachSubscriptionsOnCreation	Boolean	If set to True, this allows contract information to be used as the default by CMP Subscriptions linked to this Agreement.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

UpdateContractAndSales Request Container



The UpdateContractAndSales request container has been deprecated. An error message is returned for requests that specify this container.

UpdateInvoiceControl Request Container

The UpdateInvoiceControl request container has the following elements:

Element Name	Content Type	Description	Required?
BillingCycle	Integer 1-31	Day of the Month on which the bill will be produced. Range 1-31 - CMP compensates for months with fewer than 31 days.	Optional
OverrideBillingCycle	Boolean	If set to True, the day on which the bill is produced can be overridden if more than one billing cycle date is available. For example, the date can be amended to fall in line with the day a customer receives their salary.	Optional
FirstInvoiceOnCycle	Boolean	If set to True, Invoice Production will be deferred to the next cyclical billing date (if connection occurs after the cycle date within the current month).	Optional
FinalInvoiceOnCycle	Boolean	The final Invoice Production is usually deferred to allow all receipt of all possible late roamed usage information from the network. If set to True, this deferral is prevented and the final bill is produced on the cycle date.	Optional
NextExpectedInvoiceDate	Date	The cycle date on which the very next invoice will be produced. YYYY-MM-DDZ	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

AuditRecord Request Container

The AuditRecord request container has the following elements:

UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The Program Name should be hard coded in the calling application to uniquely identify that application.	Mandatory

2.4.6.2 UpdateAgreement Response

The UpdateAgreement response is the response to the UpdateAgreement Request. This contains the following elements:

Element Name	Content Type	Description	Required?
AgreementNumber	Integer8	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Mandatory
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.5 Billing Service

The information in this section corresponds to the CMP web services as specified in the [billingservice.wsdl](#).

The following web services are included:

- [Create Discount](#)
- [Set Attributes](#)
- [Update Discount](#)

For other billing web services, use the RESTful Billing API.

2.5.1 CreateDiscount

The CreateDiscount web service enables an external client system to create a CMP Discount Scheme against a Subscription, Account or Agreement.

The user must pass in a valid CMP Discount Scheme Code, Subscription, Account or Agreement number and an Effective Date for the Discount Scheme.

The appropriate Discount Scheme parameters for adding a Normal, Cumulative, or Favourite Number Discount is pre-determined by reference data set up. However, it is possible to specify a Favourite Number, Call Class Group, Invoice Volume or Cross Product, or Discount Service as part of the Create Discount request.

Submitting invalid data in the request will result in an error message.

2.5.1.1 CreateDiscount Request

The CreateDiscount request instructs the Billing Service to create a Discount. This web service contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
CommonDiscountData	Container	See CommonDiscountData Request Container for details.	Mandatory
 The user has the choice of the next five containers. Only one container can be specified in the request.			
NormalDiscountData	Container	See NormalDiscountData Request Container for details.	Mandatory

CommonDiscountDataRequest Container

The CommonDiscountData request container has the following elements:

Element Name	Content Type	Description	Required?
TargetIdentifier	Container - Choice	Choice of the following elements: - SubscriptionIdentifier (Integer8) - PrimarySerialNumber, e.g. Mobile Number (String25)	Mandatory
DiscountSchemeCode	String6	This details the Name attributed to the Discount Scheme.	Mandatory
EffectiveDate	Date	This details the Effective Date of the Discount Scheme. YYYY-MM-DDZ	Optional
ExpiryDate	Date	This details the date that a Discount Scheme expires. YYYY-MM-DDZ	Optional
SequenceNumber	Integer3	Indicates the sequence in which Discounts are used. The sequence number determines the order in which Discounts are applied during Invoice Production. The lowest numbered sequence is effective first.	Optional
Stop	Boolean	When set to True, the next sequential Discount after this one will not be used. If set to False, the next Discount in the sequence following this one can be used.	Optional

NormalDiscountData Request Container

The NormalDiscountData request container has the following elements:

Element Name	Content Type	Description	Required?
Services	Container	See Service Request Container for details.	Optional

Services Request Container

The Services request container contains the following elements:

Element Name	Content Type	Description	Required?
Service	Container	See Service Request Container for details.	Optional

Service Request Container

The Service request container contains the following elements:

Element Name	Content Type	Description	Required?
ServiceCode	String6	This details the code attributed to the Service as it appears on the invoice.	Mandatory
EffectiveDate	Date	YYYY-MM-DDZ	Mandatory
BandType	String - Enumeration	One of: - Bands - Total	Mandatory
BasedOnValue	String - Enumeration	One of: - Service Provider Retail Value - Supplier Value - Service Provider Billed Value	Mandatory
BasedOnVolume	Boolean	When set to True, the discount is based on volume rather than value.	Optional

2.5.1.2 CreateDiscount Response

The CreateDiscount response is the response to the [CreateDiscount Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.5.2 Set Attributes

Attributes are a configurable list of values that can be associated with entities such as Price Plans and Packages to provide more information on the entity.

The Set Attributes web service enables an external client system to create/update an Attribute Group and Attribute Values against a pre-configured list of Attributes (for example, a specific Account or Subscriber).

The service can also be used to set/update the Group and/or Values at any time by supplied valid Attribute data.

The number of Attributes that are valid for each Attribute Group can vary and is dependent on the customer configuration in CMP. It is this configuration that is used to determine if the request is valid when a user supplies an Attribute Group and Values.

Using the Set Attributes web service to update Attributes can be utilised by the client in two ways:

- Update Attribute Group and Attribute(s).
- Update Attribute(s).

Option 1 - New Group and New Attributes

- The client calling system must provide a new Attribute Group ID, Attributes IDs and Values. This allows the user to change the existing Group that is assigned to the account, and store Values against each of the new Attributes.
- The Group ID must be valid for the Account or Subscription that has been supplied.
- If the Group ID is valid, the Attribute IDs are validated to ensure they all exist in the CMP configuration for the Attribute Group. If any Attribute ID is not valid then an error response is returned to the client and no updates are made.

The supplied attribute Group level and Customer level must be configured in CMP, otherwise the request fails validation.

Option 2 - Existing Group and Update Attribute(s)

- The client calling system must supply the existing Group ID, along with new values for the Attribute IDs provided.
- The Attribute IDs are validated to ensure they all exist in the CMP configuration for the Attribute Group. If any Attribute ID is not valid then an error response is returned to the client and no updates are made.
- Any Attribute IDs not provided for the customer remain with their current values.

Any valid updates made using either Option 1 or 2 create a new effective record for the Attributes, as it does when a user updates the Attributes using the disEMP UI. This means the new and previous Attributes, along with their effective dates, are visible to a user in the disEMP UI.

2.5.2.1 SetAttributes Request

The SetAttributes tag instructs the Billing Service to set the Attribute Group and/or Values. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String	The client may use this identifier to correlate the request and the response.	Optional
TargetIdentifier	Container	Choice of: - AccountIdentifier (Integer8) - SubscriptionIdentifier (Integer8)	Mandatory
AttributeGroup	Container	See AttributeGroup Request Container for details.	Mandatory
AuditRecord	Container	See AuditRecord Request Container for details.	Optional

AttributeGroup Request Container

The Set AttributeGroup request container has the following elements:

Element Name	Content Type	Description	Required?
AttributeGroupId	String6	This identifies a new Attribute Group to change to as described in Option 1; or the existing Attribute Group to update as described in Option 2.	Mandatory
Attribute	Container	Zero or more repetitions. See Attribute Request Container for details.	Mandatory

Attribute Request Container

The Attribute request container has the following elements:

Element Name	Content Type	Description	Required?
AttributeId	Integer2	A unique ID for the Attribute. For example, 01. This is chosen from a list of Attributes configured against the chosen Attribute Group in CMP Back Office Configuration.	Optional
AttributeValue	String	A full description of the Attribute. For example, Dedicated Lease Line Connection.	Mandatory

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The Program Name should be hard coded in the calling application to uniquely identify that application.	Mandatory

2.5.2.2 SetAttributes Response

The SetAttributes response is the response to the SetAttributes Request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.5.3 UpdateDiscount

The UpdateDiscount web service enables an external client system to update an existing active Discount for a given Subscription, Account or Agreement number.

This Service should be used in conjunction with the DISCOUNTS subset of the following services:

- [Query Subscription Details](#)
- [Query Account](#)
- [Query Agreement](#)

The user must pass in a valid identifier for the Level of the Hierarchy (Group, Corporate, Account, Subscription, Agreement), Discount Code, and Effective Date in order to update the Discount details.

Users are only able to pass in an expiry date as an editable parameter for the discount scheme.

Invalid requests are rejected with an error message.

2.5.3.1 UpdateDiscount Request

The UpdateDiscount request instructs the Billing Service to update Discount details. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
TargetIdentifier	Container	SubscriptionIdentifier (Integer8)	Mandatory
DiscountSchemeCode	String6	The unique code for the Discount Scheme.	Mandatory
EffectiveDate	Date	The date from which the Discount is effective. YYYY-MM-DDZ	Mandatory
DiscountUpdateBasic	Container	See DiscountUpdateBasic Request Container for details.	Optional

DiscountUpdateBasic Request Container

The DiscountUpdateBasic request container has the following elements:

Element Name	Content Type	Description	Required?
ExpiryDate	Date	The date on which the Discount is to expire. YYYY-MM-DDZ	Mandatory
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

2.5.3.2 UpdateDiscount Response

The UpdateDiscount response is the response to the [UpdateDiscountDetails Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.6 Composite Service

The information in this section corresponds to the CMP Toolbox web services as specified in the [compositeservice.wsdl](#).

The following web services are included:

- [Manage Subscription Services](#)

2.6.1 ManageSubscriptionServices

The ManageSubscriptionServices toolbox web service enables an external client system to upgrade a Service in one operation.

Upgrading a Service allows an existing subscribed Service to be replaced by another Service. This means that two actions are occurring at once:

- Expiring the existing Service by setting the expiry date
- Adding a new Service to be effective the day after the existing one expires, and updating the Subscription Service History file.

The following three distinct types of Service can be passed in:

- Upgrade Services
- Create Services
- Update Services

It is possible to upgrade several different Service at the same time as the web service will accept a number of these in one request. In order to facilitate this, some specific validation must be performed:

- The same Service Code cannot be referenced in more than one UpgradeFromService element as it is not possible to upgrade the Service twice at the same time.
- The same Service Code cannot be referenced in more than one UpgradeToService element as it is not possible to upgrade two separate Service to the same Service code. In this scenario the user should be expiring one of the Services outside the Upgrade Service call.
- None of the Service Codes in the UpgradeToService element must conflict with any existing Service that are on the Subscription or with any of the other Service that are being added/updated in this service call.

All other validation is the same as performed in CMP when updating/adding a Service.

2.6.1.1 ManageSubscription Request

The ManageSubscription tag instructs the Manage Subscription Service to upgrade, create or update Services. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SubscriptionNumber	Integer8	The unique system generated reference number for the Subscription	Mandatory
ManageSubscriptionServices	Container	One or more repetitions of the following containers: - UpgradeServices - CreateServices - UpdateServices See individual request containers for details.	Optional
AuditRecord	Container	See the AuditRecord Request Container page for further information.	Optional

UpgradeServices Request Container

The UpgradeServices request container includes the following elements:

Element Name	Content Type	Description	Required?
UpgradeService	Container	See UpgradeService request container for more information.	Optional

UpgradeService Request Container

The UpgradeService request container includes the following elements:

Element Name	Content Type	Description	Required?
UpgradeOn	Container	Choice of: - UpgradeDate - Upgrade At Next Expected Invoice Date	Mandatory
UpgradeFromService	Container	Contains: - Service Code - Effective Date	Mandatory
UpgradeToService	Container	See UpgradeToService request container for details.	Mandatory

UpgradeToService Request Container

The UpgradeToService request container includes the following elements:

Element Name	Content Type	Description	Required?
ServiceCode	String6	The Code attributed to the Service as it appears on the invoice. This is the Service to which the subscriber is upgrading.	Mandatory
ServicePrice	Currency (Decimal)	Min Inclusive - 0.00 Max Inclusive - 999999999.99	Optional
ExpiryDate	Date	The date on which the previous Service is due to expire. YYYY-MM-DDZ	Optional
Description	String30	The short descriptive text (30-characters) attributed to the new Service attributed as it appears on the invoice (for example, Line rental charge).	Optional
LongDescription	String120	This details a longer descriptive text attributed to the new Service (120-characters).	Optional
SuppressRemainingCharge	Boolean	This is a Y/N flag which is used by Invoice Production to determine whether or not to apply the contract expiry charge to the subscriber as part of generating the invoice.	Optional
ContractReference	String12	This is a Reference ID that can be assigned to the individual service contract.	Optional
SalesPersonId	Integer8	The sales person or sales channel (Dealer, Internet, Call Centre, etc.) via which the upgrade was ordered.	Optional
SalesAccountReference	Integer8	A unique Reference Number for the sales person or sales channel (Dealer, Internet, Call Centre, etc.) via which the upgrade was ordered.	Optional

CreateServices Request Container

The CreateServices request container includes the following elements:

Element Name	Content Type	Description	Required?
Service	Container	See Service request container for more information.	Optional

Service Request Container

The Service request container includes the following elements:

Element Name	Content Type	Description	Required?
ServiceCode	String6	This details the Code attributed to the Service as it appears on the invoice.	Mandatory
ServicePrice	Currency (Decimal)	Min Inclusive - 0.00 Max Inclusive - 999999999.99	Optional
ExpiryDate	Date	The date on which the Service is due to expire. YYYY-MM-DDZ	Optional
Description	String30	This details the short descriptive text (30-characters) attributed to the Service as it appears on the invoice (for example, Line rental charge).	Optional
LongDescription	String120	This details a longer descriptive text attributed to the Service (120-characters).	Optional
SuppressRemainingCharge	Boolean	This is a Y/N flag which is used by Invoice Production to determine whether or not to apply the contract expiry charge to the subscriber as part of generating the invoice.	Optional
ContractReference	String12	This is a Reference ID that can be assigned to the individual service contract.	Optional
EffectiveDate	Date	The date on which the Service becomes effective. YYYY-MM-DDZ	Mandatory
SalesPersonId	Integer8	The sales person or sales channel (Dealer, Internet, Call Centre, etc.) via which the upgrade was ordered.	Optional
SalesAccountReference	Integer8	A unique reference number for the sales person or sales channel (Dealer, Internet, Call Centre, etc.) via which the upgrade was ordered.	Optional
AccountServiceAgreement	String8	This is used to enter the number of an active account's services agreement. A single agreement from within the same structure as the account is required to	Optional

Element Name	Content Type	Description	Required?
		control the billing pattern of all of an account's services.	

UpdateServices Request Container

The UpdateServices request container includes the following elements:

Element Name	Content Type	Description	Required?
UpdateService	Container	See UpdateService request container for more information.	Optional

UpdateService Request Container

The UpdateService request container includes the following elements:

Element Name	Content Type	Description	Required?
ServiceCode	String6	This details the code attributed to the Service as it appears on the invoice.	Mandatory
ServicePrice	Currency (Decimal)	Min Inclusive - 0.00 Max Inclusive - 999999999.99	Optional
ExpiryDate	Date	Sets the expiry date of the Service. Where the expiryDate is already set, this can be cleared if this is in the future by passing through the zero date 1899-01-01. YYYY-MM-DDZ	Optional
Description	String30	This details the short descriptive text (30-characters) attributed to the Service as it appears on the invoice (for example, Line rental charge).	Optional
LongDescription	String	This details a longer descriptive text attributed to the Service (120-characters).	Optional
SuppressRemainingCharge	Boolean	This is a Y/N flag which is used by Invoice Production to determine whether or not to apply the contract expiry charge to the subscriber as part of generating the invoice.	Optional
ContractReference	String12	This is a Reference ID that can be assigned to the individual service contract.	Optional
EffectiveDate	Date	The date from which the Service becomes effective. YYYY-MM-DDZ	Mandatory

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The Program Name should be hard coded in the calling application to uniquely identify that application.	Mandatory

2.6.1.2 ManageSubscriptionServices Response

The ManageSubscriptionServices response is the response to the ManageSubscriptionServices Request. This contains the following result element:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.7 Corporate Service

The information in this section corresponds to the CMP web services as specified in the [corporateservice.wsdl](#).

The following web services are included:

- [Create Corporate](#)
- [Query Corporate](#)
- [Update Corporate](#)

2.7.1 Create Corporate

The Create Corporate web service enables an external client system to create a Corporate within CMP and attach it to an existing CMP structure.

The user must pass in values such as a valid CMP Company Number. Standard CMP rules associated with creating a Corporate govern which values are mandatory or optional for the request.

The user is able to specify if the Corporate should be linked to an existing CMP Group structure by passing in a valid owning Group code within the web service request.

The web service returns a response containing the newly created Corporate Code if the request is successful.

Submitting invalid data in the request will result in an error message.

2.7.1.1 CreateCorporate Request

The CreateCorporate tag instructs the Corporate Service to create a Corporate. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
CorporateData	Container	A Container for the low level Corporate information. See CorporateData Request Container for details.	Mandatory

CorporateData Request Container

The CorporateData request container has the following elements:

Element Name	Content Type	Description	Required?
CorporateCode	String6	The code to use for the new Corporate.	Mandatory
CorporateDescription	String30	A full description of the Corporate.	Mandatory
Account	Container	A Container tag for the low level account information. See Account Service > Create Account > Create AccountData Request for details.	Mandatory
GroupCode	String6	The ID allocated to the Group by the system to which the Corporate will be linked.	Optional

AccountData Request Container

The AccountData request container contains the following elements:

Element Name	Content Type	Description	Required?
CompanyNumber	String3	The valid company number to be assigned to the account. Value must already be set up in CMP.	Mandatory
Address	Container	Choice of: • PersonalAddress • BusinessAddress See UpdateAddress Request for details.	Mandatory
PaymentType	String6	If not supplied, the value that is defaulted in comes from the Company Maintenance, Default Payment Type field. A list of valid payment types is configured in CMP setup. The payment type drives what the valid payment terms are. The list of payment types presented are governed by whether the redirect payment feature is being used. The default is to use this feature. The PaymentType field determines the required payment details to be supplied. Each payment type is associated via setup with a payment method. Example payment methods are: • Direct Debit • Credit Card • Debit Card • Cheque A payment type with a payment method of Cheque is referred to as a manual payment. In this case payments are taken outside of CMP and can be recorded in CMP or external financials software at a later point. There is no extra payment information required to be supplied when setting up the account for manual payments. A payment type has a payment method of Direct Debit is referred to as an automated payment	Optional

Element Name	Content Type	Description	Required?
		mechanism whereby CMP will pull payments via direct debit from a users bank account. The bank account information must be supplied to CMP in this scenario. The following fields are then required: • BankAccountNumber • BankSortCode • BankName	
PaymentTerm	String3	If not supplied, the value that is defaulted in comes from the Account Default Parm's Maint. The field is ADVPaymentTermsAR. If there is a default payment term specified in the default payment terms for the payment type that is used instead. The payment terms that are valid depend on the PaymentType and CompanyNumber that were provided.	Optional
AccountType	String3	Account Types indicate the type of Account to which Subscriptions belong, for example, 001 = VIP, 002 = Bad Debt. This is a classification of the Account. If not supplied, the value that is defaulted in comes from the Account Default Parm's Maint. The field is ADVSalesPersonCode. Value must be a valid Account Type.	Optional
SubLedgerCode	String6	This references an extra level of detail in the General Ledger and links to the external financials software. The main use of this code is to enable direct debits to be claimed from the bank account. If not supplied, the value that is defaulted in comes from the Subledger field in Account Default Parm's Maint. Value must be a valid Sub Ledger Code.	Optional
CreditLimit	Integer9	Relates to a set limit for invoiced but unpaid charges. It can also be used in conjunction with usage limits which	Optional

Element Name	Content Type	Description	Required?
		applies to unbilled units. Exceeding the limit can trigger an automated procedure. When unpaid charges reach a set amount a recovery procedure commences.	
HardwareCreditLimit	Integer9	This is the maximum amount of an order that is permitted. It is only used if the Hardware Credit Limit toolbox feature is switched on.	Optional
AccountPassword	String20	Password as specified by the user / customer.	Optional
AccountPin	Integer4	A randomly generated number will be supplied.	Optional
AccountUsage	String - Enumeration	This indicator controls what the Account can be used for. If no value is supplied then this defaults to SubscriptionAndSales/Both. Valid values are Subscription, SubscriptionAndSales and Sales. These appear in AgentView as - Subscription = Subscription - SubscriptionAndSales = Both - Sales = Sales Order Subscriptions cannot be added to an account when usage is Sales (usually referred to as a Hardware account). It is possible to add Subscriptions to a Subscription or to a SubscriptionAndSales (Both).	Optional
BankAccountNumber	String20	Only applicable if SEPA* is switched off . This optional field becomes mandatory and valid ONLY if the payment method associated with the Payment Type is Direct Debit. Setup can configure the valid lengths of the bank account number.	Optional
BankSortCode	String20	Only applicable if SEPA* is switched off.	Optional

Element Name	Content Type	Description	Required?
		This optional field becomes mandatory and valid ONLY when the payment type has a payment method of Direct Debit.	
BankName	String30	Only applicable if SEPA* is switched off. If this is supplied it is stored as supplied and not validated. If it is not supplied then the sort code is used to retrieve the bank name from the CMP bank header table. For SEPA*, the request will be rejected if the Bank Name is included in the request. It will always retrieve the bank name from the CMP bank header table using the BIC.	Optional
ControlDigit	String2	Usually only supplied when the Payment Type has a payment method of Direct Debit.	Optional
NameOfPayer	String30	This becomes mandatory when the Payment Type has a payment method of Direct Debit. Use the following format for this field: "First name space last name"	Optional
DateMandateReceived	Date	This is the date that the DD mandate was received. For electronic forms of DD Mandate this should be set to the current date. For paper mandates, it's the date that the mandate was received by the relevant back office individual. YYYY-MM-DDZ Usually only supplied when the Payment Type has a payment method of Direct Debit.	Optional
DDSetupMethodCode	String6	Usually only supplied when the Payment Type has a payment method of Direct Debit.	Optional
CCDCCardNumber	String20	The actual number of the credit or debit card. If the payment method associated with	Optional

Element Name	Content Type	Description	Required?
		the Payment Type specified is Credit Card, then the Bank Account Number must be supplied. Rejected if PCI Compliance Toolbox feature is switched on.	
NameOnCard	String20	Provides details of who is making the payment. Mandatory if the payment method associated with the Payment Type specified is Direct Debit. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
FriendlyName	String70	Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
StartYear	Integer2	Indicates the year in a 2 digit numeric form. E.g. 07 for 2007. Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
StartMonth	String6	Indicates the month in numeric form must be one of: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12. Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
ExpiryYear	Integer2	Indicates the year in a 2 digit numeric form. E.g. 07 for 2007. Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
ExpiryMonth	Integer 2	Indicates the month in numeric form must be one of: 01, 02, 03, 04, 05, 06,	Optional

Element Name	Content Type	Description	Required?
		07, 08, 09, 10, 11, 12.	
CreditSecurityCode	String6	The card security code used. On many card types it is the last group of digits on the signature panel. Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on	Optional
CorporateCode	String6	The Corporate to which the Account will be added. If not specified, the account will not be associated with any corporate. If required an Account can be standalone or it can form part of a larger corporate structure.	Optional
EmailAddress	String	This adds an e mail address with the default email address type. The default e mail address type is defined in setup.	Optional
AccountSerialNumbers	Container	A container for one or more Account Serial Numbers. It is possible to configure up to 999 different serial numbers via setup. See Create AccountSerialNumber Request Container for details.	Optional
PaymentCardToken	Container	See PaymentCardToken Request Container for details.	Optional
IBAN	String34	International Bank Account Number Only applicable and mandatory if SEPA* is switched on.	Mandatory for SEPA only
BIC	String11	Bank Identifier Code Only applicable and mandatory if SEPA* is switched on.	Mandatory for SEPA only
MandateReference	String35	Only applicable and mandatory if SEPA* is switched on.	Mandatory for SEPA only

Element Name	Content Type	Description	Required?
MandateSignatureDate	Date	Only applicable if SEPA* is switched on.	Optional



*SEPA is turned on via setting the System Property parameter group DIRECT.DEBIT.PAYMENT.SCHEME to have a value of SEPA. The default is to use BACS.

Address Request Container

The Address request container instructs the Address Service to update an Account with an address. This request contains the following elements:

Element Name	Content Type	Description	Required?
AddressData	Container - Choice	Choice of: - PersonalAddress - BusinessAddress	Mandatory

Personal Address Errors

For Personal Addresses, if multiple mandatory fields are not supplied the following error (the details depend on the fields not supplied) is returned:

```
<Error>
<MessageId>MISSING_ADDRESS_FIELD</MessageId>
<MessageText>Please complete the Title,Middle Name,Sur-
name,Address Line 1,Address Line 2,Address Line 3,
Address Line 4,Address Line 5,Postcode,Daytime Telephone,Evening
Telephone,Fax Number,
Address Type,Address Category,Occupation,Id Number,Date Of
Birth,Date Of Residence,
Gender field(s)</MessageText>
<ExtraInfo>Title,Middle Name,Surname,Address Line 1,Address Line
2,Address Line 3,
Address Line 4,Address Line 5,Postcode,Daytime Telephone,Evening
Telephone,Fax Number,
Address Type,Address Category,Occupation,Id Number,Date Of
Birth,Date Of Residence,
Gender</ExtraInfo>
</Error>
```

Business Address Errors

For Business Addresses, if multiple mandatory fields are not supplied the following error (the details of course depends on the fields not supplied, the complete list is shown here)

is returned:

```
<Error>
<MessageId>MISSING_ADDRESS_FIELD</MessageId>
<MessageText>Please complete the Title,Fore-
name,MiddleName,Surname,Address Line 1,Address Line 2,
Address Line 3,Address Line 4,Address Line 5,Postcode,Company
Telephone,Contact Telephone,
Fax Number,Address Type,Address Category,Date Of Incor-
poration,Date Of Residence,Job Title,
Company Name,Company Registration,Industrial Classification field
(s)</MessageText>
<ExtraInfo>Title,Forename,MiddleName,Surname,Address Line 1,Ad-
dress Line 2,
Address Line 3,Address Line 4,Address Line 5,Postcode,Company
Telephone,Contact Telephone,
Fax Number,Address Type,Address Category,Date Of Incor-
poration,Date Of Residence,Job Title,
Company Name,Company Registration,Industrial Classification </Ex-
traInfo
</Error>
```

PersonalAddressRequest Container

The PersonalAddress request container has the following elements:

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Optional
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Separated or BLANK.	Optional
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the available Customer Types configured in CMP.	Optional
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional

Element Name	Content Type	Description	Required?
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via CMP back office setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Request Container

The BusinessAddress request container has the following elements:

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Optional
Address3	String40	Line three of the company's address.	Optional
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides. Configurable CMP list.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional
DateOfIncorporation	Date	The date the company register at the address specified in the format YYYY-MM-DD.	Optional
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional

Element Name	Content Type	Description	Required?
Surname	String25	Company's contact surname name.	Optional
JobTitle	String30	Company's contact job title.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via CMP back office setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

PaymentCardToken Request Container

The PaymentCardToken request container contains the following elements:

Element Name	Content Type	Description	Required?
CardReference	VARCHAR (100)	The tokenised string representing the card.	Mandatory
CardNumber	String4	The last four digits of card number.	Optional
NameOnCard	String20	The name of the cardholder exactly as displayed on the card.	Optional
StartYear	String2	The year from which the card becomes valid, as shown on the card.	Optional
StartMonth	String2	The month from which the card becomes valid, as shown on the card.	Optional
ExpiryYear	String2	The year that the card expires, as shown on the card.	Mandatory
ExpiryMonth	String2	The month that the card expires, as shown on the card.	Mandatory

AccountSerialNumbers Request Container

The AccountSerialNumber request container contains the following elements:

Element Name	Content Type	Description	Required?
SerialNumberId	Range 1-999	The Managed Serial Number identification number. Must be a valid ID number in CMP configuration.	Mandatory
SerialNumberValue	String25	The actual network serial number value, for example mobile phone number. The default value that can be set up only applies to AgentView. Each serial number field can be configured via set up with the applicable allowed values, field type, and min and max allowable values.	Mandatory

Sample CreateCorporate Request

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/corporate/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:CreateCorporate>
      <def:Request>
        <!--Optional:-->
        <ExternalReference>ABC123</ExternalReference>
        <CorporateData>
          <CorporateCode>NEWCORP</CorporateCode>
          <CorporateDescription>?</CorporateDescription>
          <Account>
            <!--You may enter the following 34 items in any order-->
            <CompanyNumber>123456</CompanyNumber>
            <Address>
              <!--You have a CHOICE of the next 2 items at this level-->
              <PersonalAddress>
                <!--You may enter the following 23 items in any order-->
                <Title>Ms</Title>
                <!--Optional:-->
                <Forename>?</Forename>
                <!--Optional:-->
                <MiddleName>?</MiddleName>
                <Surname>Jones</Surname>
                <Address1>23 The Road</Address1>
                <!--Optional:-->

```

```
<Address2>?</Address2>
<!--Optional:-->
<Address3>?</Address3>
<!--Optional:-->
<Address4>?</Address4>
<!--Optional:-->
<Address5>?</Address5>
<!--Optional:-->
<Postcode>?</Postcode>
<!--Optional:-->
<DateOfBirth>?</DateOfBirth>
<!--Optional:-->
<Gender>?</Gender>
<!--Optional:-->
<MaritalStatus>?</MaritalStatus>
<!--Optional:-->
<DateOfResidence>?</DateOfResidence>
<!--Optional:-->
<CustomerType>?</CustomerType>
<!--Optional:-->
<AddressType>?</AddressType>
<!--Optional:-->
<AddressCategory>?</AddressCategory>
<!--Optional:-->
<Occupation>?</Occupation>
<!--Optional:-->
<IDType>?</IDType>
<!--Optional:-->
<IDNumber>?</IDNumber>
<!--Optional:-->
<TelephoneNumber>?</TelephoneNumber>
<!--Optional:-->
<EveningTelephoneNumber>?</EveningTelephoneNumber>
<!--Optional:-->
<FaxNumber>?</FaxNumber>
</PersonalAddress>
<BusinessAddress>
<!--You may enter the following 21 items in any order-->
<CompanyName>?</CompanyName>
<Address1>?</Address1>
<!--Optional:-->
<Address2>?</Address2>
<!--Optional:-->
<Address3>?</Address3>
<!--Optional:-->
```

```
<Address4>?</Address4>
<!--Optional:-->
<Address5>?</Address5>
<!--Optional:-->
<Postcode>?</Postcode>
<!--Optional:-->
<CompanyTelephoneNumber>?</CompanyTelephoneNumber>
<!--Optional:-->
<FaxNumber>?</FaxNumber>
<!--Optional:-->
<ContactTelephoneNumber>?</ContactTelephoneNumber>
<!--Optional:-->
<CompanyType>?</CompanyType>
<!--Optional:-->
<AddressType>?</AddressType>
<!--Optional:-->
<AddressCategory>?</AddressCategory>
<!--Optional:-->
<IndustrialClassificationCode>?</IndustrialClassificationCode>
<!--Optional:-->
<CompanyRegistration>?</CompanyRegistration>
<!--Optional:-->
<DateOfIncorporation>?</DateOfIncorporation>
<!--Optional:-->
<Title>?</Title>
<!--Optional:-->
<Forename>?</Forename>
<!--Optional:-->
<MiddleName>?</MiddleName>
<!--Optional:-->
<Surname>?</Surname>
<!--Optional:-->
<JobTitle>?</JobTitle>
</BusinessAddress>
</Address>
<!--Optional:-->
<PaymentType>?</PaymentType>
<!--Optional:-->
<PaymentTerm>?</PaymentTerm>
<!--Optional:-->
<AccountType>?</AccountType>
<!--Optional:-->
<SubLedgerCode>?</SubLedgerCode>
<!--Optional:-->
<CreditLimit>?</CreditLimit>
```

```
<!--Optional:-->
<HardwareCreditLimit>?</HardwareCreditLimit>
<!--Optional:-->
<AccountPassword>?</AccountPassword>
<!--Optional:-->
<AccountPIN>?</AccountPIN>
<!--Optional:-->
<AccountUsage>SubscriptionAndSales</AccountUsage>
<!--Optional:-->
<BankAccountNumber>?</BankAccountNumber>
<!--Optional:-->
<BankSortCode>?</BankSortCode>
<!--Optional:-->
<BankName>?</BankName>
<!--Optional:-->
<ControlDigit>?</ControlDigit>
<!--Optional:-->
<NameOfPayer>?</NameOfPayer>
<!--Optional:-->
<DateMandateReceived>?</DateMandateReceived>
<!--Optional:-->
<DDSetupMethodCode>?</DDSetupMethodCode>
<!--Optional:-->
<IBAN>?</IBAN>
<!--Optional:-->
<BIC>?</BIC>
<!--Optional:-->
<MandateReference>?</MandateReference>
<!--Optional:-->
<MandateSignatureDate>?</MandateSignatureDate>
<!--Optional:-->
<PaymentCardToken>
<CardReference>?</CardReference>
<!--Optional:-->
<CardNumber>?</CardNumber>
<!--Optional:-->
<NameOnCard>?</NameOnCard>
<!--Optional:-->
<StartYear>?</StartYear>
<!--Optional:-->
<StartMonth>?</StartMonth>
<!--Optional:-->
<ExpiryYear>?</ExpiryYear>
<!--Optional:-->
<ExpiryMonth>?</ExpiryMonth>
```

```

</PaymentCardToken>
<!--Optional:-->
<CCDCCardNumber>?</CCDCCardNumber>
<!--Optional:-->
<NameOnCard>?</NameOnCard>
<!--Optional:-->
<FriendlyName>?</FriendlyName>
<!--Optional:-->
<StartYear>?</StartYear>
<!--Optional:-->
<StartMonth>?</StartMonth>
<!--Optional:-->
<ExpiryYear>?</ExpiryYear>
<!--Optional:-->
<ExpiryMonth>?</ExpiryMonth>
<!--Optional:-->
<CreditSecurityCode>?</CreditSecurityCode>
<!--Optional:-->
<CorporateCode>?</CorporateCode>
<!--Optional:-->
<EmailAddress>?</EmailAddress>
<!--Optional:-->
<AccountSerialNumbers>
<!--1 to 999 repetitions:-->
<AccountSerialNumber>
<SerialNumberId>?</SerialNumberId>
<SerialNumberValue>?</SerialNumberValue>
</AccountSerialNumber>
</AccountSerialNumbers>
</Account>
<!--Optional:-->
<GroupCode>?</GroupCode>
</CorporateData>
</def:Request>
</def:CreateCorporate>
</soapenv:Body>
</soapenv:Envelope>

```

2.7.1.2 CreateCorporate Response

CreateCorporate response is the response to the [CreateCorporate Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
CorporateCode	String6	The Corporate code to which the Account will be added. If not specified, the Account will not be associated with any Corporate.	Mandatory

2.7.2 QueryCorporate

The QueryCorporate web service enables an external client system to query a Corporate and retrieve Corporate Summary details for any existing CMP Corporate.

The following fields are not shown because this information is associated with the posting account (which is available via the QueryAccount web service):

- Amount in Query
- Balance
- CC Status
- Account Type
- Overdue

The user must pass in a valid CMP Corporate Code in order to retrieve the associated Corporate Details.

Data sets exist for this web service, which enables the user to pass in a single value in order to retrieve a specific subset of information, such as:

- Address
- Discounts

The Posting Account Number is returned to the user if the request has been successful.

Submitting invalid data in the request will result in an error message.

2.7.2.1 QueryCorporate Request

The QueryCorporate tag instructs the Corporate Service to query a corporate. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
CorporateCode	String6	The Corporate Code for the Corporate to be queried.	Mandatory
Datasets	Container	Contains one or more of the following datasets: • BASIC • DISCOUNTS • ADDRESS	Optional

2.7.2.2 Sample QueryCorporate Request

```

<soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/" xmlns:de-
f="http://mdsuk.com/ws/dise3g/corporate/definition">
<soapenv:Header/>
<soapenv:Body>
<def:QueryCorporate>
<def:Request>
<!--Optional:-->
<ExternalReference>?</ExternalReference>
<CorporateCode>BK014</CorporateCode>
<Datasets>
<!--1 or more repetitions:-->
<Dataset>ADDRESS</Dataset>
</Datasets>
</def:Request>
</def:QueryCorporate>
</soapenv:Body>
</soapenv:Envelope>

```

2.7.2.3 QueryCorporate Response

The QueryCorporate response is the response to the QueryCorporate request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
CorporateBasic	Container	See CorporateBasic Response Container for details.	Optional
Address	Container	Choice of: - PersonalAddress - see PersonalAddress Request Container. - BusinessAddress - see BusinessAddress Request Container.	Optional

CorporateBasic Response Container

The CorporateBasic response container is the response to the BASIC dataset when specified in the QueryCorporate request. It contains the following elements:

Element Name	Content Type	Description	Required?
CorporateCode	String6	The Corporate to which the account will be added. If not specified, the Account will not be associated with any Corporate.	Mandatory
CorporateDescription	String30	A full Description of the Corporate.	Mandatory
CompanyNumber	String3	The Company Name to which the Account is attached.	Mandatory
GroupCode	String6	The ID allocated to the Group by the system, if appropriate.	Optional
AddressNumber	Integer8	The Account level delivery address number which is used to identify one of the several delivery addresses available.	Mandatory
EmailAddress	String70	The customer contact Email Address.	Optional
PostingAccountNumber	Integer0-99999999	Unique number to identify the Posting Account.	Mandatory
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Address Response Container

The Address response container is the response to the ADDRESS dataset when specified in the QueryCororate request. It has the following elements:

Element Name	Content Type	Description	Required?
AddressNumber	Integer	The Account level delivery address number which is one of the several delivery addresses available.	Optional
PersonalAddress	Container	The PersonalAddress container is returned when populated in CMP.	Optional
BusinessAddress	Container	The BusinessAddress container is returned when populated in CMP.	Optional
Last Amended Date	dateTime	The date and time at which the Account was last amended. YYYY-MM-DDThh:mm:ssZ	Optional



Only one address type, personal or business, can be set up at any one time. Therefore only the address that is populated in CMP is returned when an Account is queried specifying the ADDRESS dataset.

PersonalAddress Response Container

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Optional
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Seperated or BLANK.	Optional
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the available Customer Types configured in CMP.	Optional
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional

Element Name	Content Type	Description	Required?
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Response Container

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Optional
Address3	String40	Line three of the company's address.	Optional
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides. Configurable CMP list.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional
DateOfIncorporation	Date	The date the company register at the address specified, in the format YYYY-MM-DD.	Optional

Element Name	Content Type	Description	Required?
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact surname name.	Optional
JobTitle	String30	Company's contact job title.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

2.7.3 Update Corporate

The UpdateCorporate web service enables an external client system to update Corporate information for existing CMP corporates.

In order to update the Corporate details, the user must pass in a valid CMP Corporate Code along with the relevant information to be updated.

Users are able to update individual attributes of the Corporate Details as per the Edit Corporate screen.

Invalid requests are rejected with an error message.

2.7.3.1 UpdateCorporate Request

The UpdateCorporate tag instructs the Corporate Service to update Corporate details. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Mandatory
CorporateCode	String6	The Corporate Code to which the Account will be added. If not specified, the Account will not be associated with any Corporate.	Mandatory
UpdateCorporateBasic	Container	See UpdateCorporateBasic Request Container for details.	Optional

UpdateCorporateBasic Request Container

The UpdateCorporateBasic request container contains the following elements:

Element Name	Content Type	Description	Required?
CorporateDescription	String30	A full description of the Corporate.	Optional
AddressNumber	0-999999999	The Customer contact email address.	Optional
PostingAccountNumber	String20	Unique number to identify the posting Account.	Optional
LastAmendedDate	Date	YYYY-MM-DDZ	Mandatory

2.7.3.2 UpdateCorporate Response

The UpdateCorporate response is the response to the [UpdateCorporate Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2.8 Features Service

The information in this section corresponds to the CMP web services as specified in the [featureesservice.wsdl](#). Features can be defined against a Subscription. The purpose of it is to return a list of Features for a Subscription.

The following web services are included:

- [Query Feature History](#)
- [Set Feature](#)

2.8.1 QueryFeatureHistory

The QueryFeatureHistory web service enables an external client system to query a Subscription to retrieve the Features associated with a Subscription, and the history of changes that have been made on that Feature.

The user must pass in a valid CMP Subscription Number or Network Serial Number and a Feature Code.

2.8.1.1 QueryFeatureHistory Request

The QueryFeatureHistory tag instructs the Features Service to query and return the details of a Subscription Feature. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
TargetIdentifier	Container - Choice	Choice of: - SubscriptionIdentifier, Integer8, the CMP Subscription Number, optional. - NetworkSerialNumber, String25, the Network Serial Number associated with the CMP Subscription, optional.	Mandatory
FeatureCode	String6	The code associated with the Feature to be queried, as configured in CMP.	Mandatory

Sample QueryFeatureHistory Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:df="http://mdsuk.com/ws/dise3g/features/definition">
  <soapenv:Header/>
  <soapenv:Body>
```

```

<def:QueryFeatureHistory>
<def:Request>
<!--You may enter the following 3 items in any order-->
<!--Optional:-->
<ExternalReference>?</ExternalReference>
<TargetIdentifier>
<!--You may enter the following 2 items in any order-->
<!--Optional:-->
<SubscriptionIdentifier>1855678</SubscriptionIdentifier>
<!--Optional:-->
<!-- <NetworkSerialNumber>?</NetworkSerialNumber> -->
</TargetIdentifier>
<FeatureCode>NF9999</FeatureCode>
</def:Request>
</def:QueryFeatureHistory>
</soapenv:Body>
</soapenv:Envelope>

```

2.8.1.2 QueryFeatureHistory Response

The QueryFeatureHistory response is the response to the QueryFeatureHistory Request. It contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
FeatureCode	String6	The unique CMP code configured for the Feature.	Mandatory
FeatureDescription	String	The CMP description configured for the Feature.	Mandatory
Histories	Container	See Histories Response Container for details.	Mandatory

Histories Response Container

The Histories response container contains the following elements:

Element Name	Content Type	Description	Required?
History	Container	See History Response Container for details.	Mandatory

History Response Container

The History response container has the following elements:

Element Name	Content Type	Description	Required?
FeatureAction	String	The specific action the Feature performs, for example enable, disable, bar, unbar).	Mandatory
FeatureStatus	String	The current status of the Feature, for example pending, success, failure.	Mandatory
EffectiveDate	Date	The Feature effective date. YYYY-MM-DDZ	Mandatory
ConfirmationDate	Date	The Feature confirmation date. YYYY-MM-DDZ	Mandatory
ActionWorkflow	String	The CMP Workflow Event Code linked to the Feature.	Mandatory

Sample QueryFeatureHistory Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <ns2:QueryFeatureHistoryResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/features/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/fault/definition">
      <ns2:Response>
        <ExternalReference>?</ExternalReference>
        <FeatureCode>NF9999</FeatureCode>
        <FeatureDescription>desc</FeatureDescription>
        <Histories>
          <History>
            <FeatureAction>BAR</FeatureAction>
            <FeatureStatus>PENDING</FeatureStatus>
            <EffectiveDate>2015-06-25T16:33:17Z</EffectiveDate>
            <ConfirmationDate>1899-01-01T00:00:00Z</ConfirmationDate>
            <ActionWorkflow>202799389</ActionWorkflow>
          </History>
          <History>
            <FeatureAction>ENABLE</FeatureAction>
            <FeatureStatus>PENDING</FeatureStatus>
            <EffectiveDate>2015-06-27T15:28:27Z</EffectiveDate>
            <ConfirmationDate>1899-01-01T00:00:00Z</ConfirmationDate>
            <ActionWorkflow>202799415</ActionWorkflow>
          </History>
        </Histories>
      </ns2:Response>
    </ns2:QueryFeatureHistoryResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<History>
<FeatureAction>ENABLE</FeatureAction>
<FeatureStatus>PENDING</FeatureStatus>
<EffectiveDate>2015-07-07T16:27:16Z</EffectiveDate>
<ConfirmationDate>1899-01-01T00:00:00Z</ConfirmationDate>
<ActionWorkflow>202799432</ActionWorkflow>
</History>
</Histories>
</ns2:Response>
</ns2:QueryFeatureHistoryResponse>
</soapenv:Body>
</soapenv:Envelope>
```

2.8.2 SetFeature

The SetFeature webservice can be used to enable Features, and set the status of the Features, attached to a Subscription.

This web service allows a user to set one or multiple Features for a Subscription using either a Subscription Number or Network Serial Number.

The FeatureCode and ActionRequired (Enable, Disable, Bar or Unbar) are required to set a Feature. Relevant data is then sent to SubscriberFeature and SubscriberFeatureHistory files.

A Workflow Event is also created in order to change the Feature Status. If the request is successful, the originally submitted ExternalReference is returned to the user.

Some features, both service and non-service, cannot be set using the web service and are only editable through configuration.

2.8.2.1 SetFeature Request

The SetFeature tag instructs the Features Service to enable and set a Feature for a Subscription. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
TargetIdentifier	Container - Choice	Choice of: - SubscriptionIdentifier, Integer8, the CMP Subscription Number, optional. - NetworkSerialNumber, String25, the Network Serial Number associated with the CMP Subscription, optional.	Mandatory
FeatureActions	Container	See FeatureAction Request Container for details.	Mandatory
AuditRecord	Container	See AuditRecord Request Container for details.	Mandatory

FeatureActions Request Container

The FeatureActions request container contains the following elements.

Element Name	Content Type	Description	Required?
FeatureAction	Container	One or more repetitions of the FeatureAction container. See FeatureAction Request Container for details.	Mandatory

FeatureActions Request Container

The FeatureAction request container contains the following elements.

Element Name	Content Type	Description	Required?
FeatureCode	String6	The CMP code of the Feature to be updated.	Mandatory
ActionRequired	String	Options include; - Enable - Disable	Mandatory

AuditRecord Request Container

The Features AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The Program Name should be hard coded in the calling application so as to uniquely identify that application.	Mandatory

Sample SetNetworkFeature Request

```

<soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/" xmlns:de-
f="http://mdsuk.com/ws/dise3g/features/definition">
<soapenv:Header/>
<soapenv:Body>
<def:SetFeature>
<def:Request>
<!--You may enter the following 4 items in any order-->
<!--Optional:-->
<ExternalReference?></ExternalReference>
<TargetIdentifier>
<!--You may enter the following 2 items in any order-->
<!--Optional:-->
<SubscriptionIdentifier>10359190</SubscriptionIdentifier>
<!--Optional:-->
<!-- <NetworkSerialNumber?></NetworkSerialNumber> -->
</TargetIdentifier>
<FeatureActions>
<!--1 or more repetitions:-->
<FeatureAction>
<!--You may enter the following 2 items in any order-->
<FeatureCode>NF9999</FeatureCode>
<ActionRequired>ENABLE</ActionRequired>
</FeatureAction>
<FeatureAction>
<!--You may enter the following 2 items in any order-->
<FeatureCode>NF0002</FeatureCode>
<ActionRequired>ENABLE</ActionRequired>
</FeatureAction>
</FeatureActions>
<!--Optional:-->
<!-- <AuditRecord>
<UserID?></UserID>
<Program?></Program>
</AuditRecord> -->

```

```
</def:Request>
</def:SetFeature>
</soapenv:Body>
</soapenv:Envelope>
```

2.8.2.2 SetFeature Response

The SetFeature response is the response to the SetFeature Request. It contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

Sample SetFeature Response

```
<soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>
<ns2:SetFeatureResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/features/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/fault/definition">
<ns2:Response>
<ExternalReference>?</ExternalReference>
</ns2:Response>
</ns2:SetFeatureResponse>
</soapenv:Body>
</soapenv:Envelope>
```

2.9 Financials Service

The information in this section corresponds to the CMP web services as specified in the financialsservice.wsdl.

The following web services are included:

- [Create Invoice Query Amount](#)
- [Query Account Balance](#)
- [Query Invoice Query Amounts](#)
- [Query Transactions](#)

2.9.1 CreateInvoiceQueryAmount

The CreateInvoiceQueryAmount web service enables a Query Amount to be created in CMP for a valid Account Number and Invoice Number, as specified in the request.

Submission of invalid data results in an error being returned.

The record is created on the Query Amount file which triggers the creation of a Workflow Event on the Account. The unique Workflow Number is returned in the web service response.

The Workflow Event is not resolved or processed and the Query Amount record is updated with the Workflow Number.

The external system identifies the relevant Posting Account for the Group, Corporate or Subscription prior to calling the web service. Transactions for this Account are then queried by the external system to determine what invoices have been posted at that level.

2.9.1.1 CreateInvoiceQueryAmount Request

The CreateInvoiceQueryAmount tag instructs the Financials Service to create an invoice query amount. The user must pass in a valid CMP Account Number and Invoice Number. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The unique number automatically generated when the Account is created.	Mandatory
InvoiceNumber	Integer8	Invoice Number to which the query belongs.	Mandatory
AmountInQuery	Currency (Decimal)	- Min Inclusive: 0.00 - Max Inclusive: 999999999.99	Mandatory
QueryType	String4	This must correspond to an Workflow Event Code configured in CMP for the Query Amount Workflow Event Type.	Optional

2.9.1.2 CreateInvoiceQueryAmount Response

The CreateInvoiceQueryAmount response is the response to the [CreateInvoiceQueryAmount Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
WorkflowEventNumber	Integer9	The Workflow Event Number associated with this query.	Mandatory
QueryNumber	Integer8	Query Number used to identify the query.	Mandatory

If the requested Account Number or Invoice Number does not exist, the appropriate message is returned and standard exception processing is performed.

2.9.2 Query Account Balance

The QueryAccountBalance web service enables an external client system to retrieve the Account Balance for a CMP Account. This is the same as the Balance Information displayed in AgentView.

The user must pass in a valid CMP Account Number in order to retrieve the associated Account Balance, as held in the Account Summary panel in the Account Summary screen within CMP.

This web service returns appropriate balances, including the Account Balance, Amount Overdue and Amount in Query.

Submitting invalid data in the request will result in an error message.

2.9.2.1 QueryAccountBalance Request

The QueryAccountBalance tag instructs the Financials Service to query the Account Balance on an Account. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The unique number automatically generated when the Account is created.	Mandatory

2.9.2.2 QueryAccountBalance Response

The QueryAccountBalance response is the response to the [QueryAccountBalance Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
BalanceDetails	Container	The Balance field includes the amount in query. Therefore Amount Due = Balance - Amount In Query. See BalanceDetails Response Container for details.	Mandatory

BalanceDetails Response Container

The BalanceDetails response container contains the following elements:

Element Name	Content Type	Description	Required?
Balance	Currency (Decimal)	The amount the customer owes from the last invoice. - Min Inclusive: -999999999.99 - Max Inclusive: 999999999.99	Mandatory
AmountOverdue	Currency (Decimal)	The amount the customer owes since the last payment due date. This value is used to determine if the customer should be put in Credit Control. - Min Inclusive: 0.00 - Max Inclusive: 999999999.99	Mandatory
AmountInQuery	Currency (Decimal)	This is the amount that the customer has queried which is being reviewed by the User. This value is taken off the overdue amount but stays in the Balance. - Min Inclusive: 0.00 - Max Inclusive: 999999999.99	Mandatory
FutureRecurringPayments	Currency	The sum of successful future recurring payments for this account. This balance handles the situation in which a direct debit pull has occurred and immediately posted the payment to the ledger; although the payment has yet to be successfully processed by the bank.	Mandatory

2.9.3 QueryInvoiceQueryAmounts

The CreateInvoiceQueryAmount web service enables Query Amounts to be queried for a given Account or Account/Invoice Number combination. That is, if an Invoice Number is supplied, Query Amounts pertaining to that specific Account and Invoice are returned as opposed to a list for the whole CMP Account. This web service is used in conjunction with other web services in order to create, query and resolve Query Amounts.

If only a valid Account Number is specified, all Query Amounts logged against that Account are retrieved. Results are filtered by the Status Filter. Select All to return all Query Amounts or Open for Open Query Amounts.

If the Account Number and Invoice Number are specified, retrieved Query Amounts are restricted to those matching these fields. The Status Filter determines which individual query records are included in the response.

Submission of invalid data results in an appropriate error being returned.

2.9.3.1 QueryInvoiceQueryAmounts Request

The QueryInvoiceQueryAmounts tag instructs the [Query Invoice Query Amounts](#) service to query invoice query amounts. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The unique number automatically generated when the Account is created.	Mandatory
InvoiceNumber	Integer8	Invoice Number to which the query belongs.	Optional
StatusFilter	String	One of: - All - Open	Mandatory

2.9.3.2 QueryInvoiceQueryAmounts Response

The QueryInvoiceQueryAmounts response container is the response to the [QueryInvoiceQueryAmounts Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The unique number automatically generated when the Account is created.	Mandatory
QueryAmounts	Container	See Query Data Response Container for details.	Optional

If no Query Amounts are found, standard exception processing applies.

InvoiceQueryAmounts Response Container

The InvoiceQueryAmounts response container has the following elements:

Element Name	Content Type	Description	Required?
InvoiceQueryAmounts	Container	See InvoiceQueryAmount Response Container for details.	Optional

InvoiceQueryAmount

The InvoiceQueryAmount response container has the following elements:

Element Name	Content Type	Description	Required?
QueryNumber	Integer8	Query number used to identify the query.	Optional
AmountsInQuery	Currency (Decimal)	- Min Inclusive: 0.00 - Max Inclusive: 999999999.99	Optional
DateQueryRaised	Date	The date on which the query was raised. YYYY-MM-DDZ	Optional
InvoiceNumber	Integer8	Invoice Number to which the query belongs.	Optional
WorkflowEventNumber	Integer9	The Workflow Event Number associated with this query.	Optional
QueryStatus	String	Either: - Open - Resolved	Optional
CreatedBy	String30	The system identifier of the user who created the query event.	Optional

2.9.4 QueryTransactions

The QueryTransactions web service enables an external client system to retrieve transaction summary information for a Subscriber's CMP Account.

The user must pass in a valid CMP Account Number in order to retrieve the associated list of transactions, as held in the Transactions panel of the CMP Account Summary screen. This list of transactions includes Invoices, Payments, and Credits.

A transactions filter option is available to enable the user to select either Posted - Unmatched (Open) or Posted - All. One of these filter options must be submitted as part of the web service request.

The response returns a list of transactions, including the appropriate dates and amounts of the transaction.

A maximum is applied to the number of transactions that can be returned in a single web service call. If this limit is exceeded, the maximum number of records is still returned but the user is notified that the limit has been reached.

To avoid performance problems, the number of returned transactions should not exceed twenty .

Submitting invalid data in the request will result in an error message.

2.9.4.1 QueryTransactions Request

The QueryTransactions tag instructs the Financials Service to query transactions on an Account. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The unique number automatically generated when the Account record is created.	Mandatory
TransactionsData	String	One of: - POSTED_UNMATCHED - POSTED_ALL	Mandatory

2.9.4.2 QueryTransactions Response

QueryTransactions response is the response to the [QueryTransactionDetails Request](#). This response contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
TransactionData	Container	Contains one or more Transaction. See TransactionData Response Container for details.	Mandatory
QueryLimitExceeded	Boolean	Set to True if the configured maximum number of records returned was exceeded.	Mandatory

Transactions are returned ordered by most recent date first (ascending date). However if there are multiple transactions on the same date, these transactions are in descending time order. For example, if there were two payments on the same day, the first transaction will be the earlier of the two, with the second transaction being the later one.

TransactionsData Response Container

The TransactionsData response container has the following elements:

Element Name	Content Type	Description	Required?
Transaction	Container	See Transaction Response Container for details.	Optional

Transaction

The Transaction response container has the following elements:

Element Name	Content Type	Description	Required?
ReferenceNumber	Integer8	This displays either an Invoice Number, Credit Note Number or Payment Reference Number.	Mandatory
Description	String30	This indicates if the Transaction relates to an Invoice, Credit, Debit, Payment Received, etc.	Mandatory
TaxDate	Date	This displays the date on which the Transaction was applied to the account. YYYY-MM-DDZ	Mandatory
Remark	String30	This provides a more detailed indication of the Transaction Type (i.e. multi- subscription invoice).	Mandatory
GrossAmount	Currency (Decimal)	This displays the total value of the transaction. - Min Inclusive: - 999999999.99 - Max Inclusive: 999999999.99	Mandatory
OpenAmount	Currency (Decimal)	This displays the value of any outstanding transactions. This field relates to the balance of the gross amount of the transaction. - Min Inclusive: - 999999999.99 - Max Inclusive: 999999999.99	Mandatory
PaymentDue/ReceivedDate	Date	This details the date the monies should be paid by or the date the monies were received or the date the credit/debit was applied. YYYY-MM-DDZ	Mandatory
TransactionType	String - Enumeration	Choice of: - INVOICE - PAYMENT	Mandatory

Sample QueryTransactions Response

```
<soapenv:Envelope xmlns:soapenv-  
v="http://schemas.xmlsoap.org/soap/envelope/">
```

```

<soapenv:Body>
  <ns2:QueryTransactionsResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/financials/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/workflow/definition"
xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
    <ns2:Transactions>
      <ExternalReference>?</ExternalReference>
      <TransactionData>
        <Transaction>
          <ReferenceNumber>33576285</ReferenceNumber>
          <Description>Invoice</Description>
          <TaxDate>2011-09-16Z</TaxDate>
          <Remark>07921688023 CABBI</Remark>
          <GrossAmount>445.03</GrossAmount>
          <OpenAmount>445.03</OpenAmount>
          <PaymentDueReceivedDate>2011-10-16Z</Pay-
mentDueReceivedDate>
          <TransactionType>INVOICE</TransactionType>
        </Transaction>
        <Transaction>
          <ReferenceNumber>33576337</ReferenceNumber>
          <Description>Invoice</Description>
          <TaxDate>2011-09-16Z</TaxDate>
          <Remark>07595565127 CABBI</Remark>
          <GrossAmount>284.15</GrossAmount>
          <OpenAmount>284.15</OpenAmount>
          <PaymentDueReceivedDate>2011-10-16Z</Pay-
mentDueReceivedDate>
          <TransactionType>INVOICE</TransactionType>
        </Transaction>
        <Transaction>
          <ReferenceNumber>33576374</ReferenceNumber>
          <Description>Invoice</Description>
          <TaxDate>2011-09-16Z</TaxDate>
          <Remark>07885709300 CABBI</Remark>
          <GrossAmount>159.27</GrossAmount>
          <OpenAmount>159.27</OpenAmount>
          <PaymentDueReceivedDate>2011-10-16Z</Pay-
mentDueReceivedDate>
          <TransactionType>INVOICE</TransactionType>
        </Transaction>
      </TransactionData>
      <QueryLimitExceeded>true</QueryLimitExceeded>
    </ns2:Transactions>
  </ns2:QueryTransactionsResponse>

```

```
</soapenv:Body>  
</soapenv:Envelope>
```

2. 10 Group Service

The information in this section corresponds to the CMP web services as specified in the groupservice.wsdl.

The following web services are included:

- [Create Group](#)
- [Query Group](#)
- [Update Group](#)

2. 10. 1 CreateGroup

The CreateGroup web service enables an external client system to create a Group within CMP in order to begin the build of a new CMP structure.

The user must pass in a valid CMP Company Number. Standard CMP rules associated with creating a Group govern which values are mandatory or optional for the request.

The web service returns a response containing the newly created Group Code if the request is successful.

Submitting invalid data in the request will result in an error message.

2.10.1.1 CreateGroup Request

The CreateGroup tag instructs the Group Service to create a Group. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
GroupData	Container	A container tag for the low level Group information. See CreateGroupData Request Container for details.	Mandatory

GroupData Request Container

The GroupData request container contains the following elements:

Element Name	Content Type	Description	Required?
GroupCode	String6	The Code to be assigned to the created Group.	Mandatory
GroupDescription	String60	The description to be assigned to the new Group.	Mandatory
Account	Container	The Account to be assigned to the new Group. See AccountData request container for details.	Mandatory

AccountData Request Container

The AccountData request container contains the following elements:

Element Name	Content Type	Description	Required?
CompanyNumber	String3	The valid company number to be assigned to the account. Value must already be set up in CMP.	Mandatory
Address	Container	Choice of: • PersonalAddress • BusinessAddress See UpdateAddress Request for details.	Mandatory
PaymentType	String6	If not supplied, the value that is defaulted in comes from the Company Maintenance, Default Payment Type field. A list of valid payment types is configured in CMP setup. The payment type drives what the valid payment terms are. The list of payment types presented are governed by whether the redirect payment feature is being used. The default is to use this feature. The PaymentType field determines the required payment details to be supplied. Each payment type is associated via setup with a payment method. Example payment methods are: • Direct Debit • Credit Card • Debit Card • Cheque A payment type with a payment method of Cheque is referred to as a manual payment. In this case payments are taken outside of CMP and can be recorded in CMP or in a third party accounting system at a later point. There is no extra payment information required to be supplied when setting up the account for manual payments. A payment type has a payment method of Direct Debit is referred	Optional

Element Name	Content Type	Description	Required?
		to as an automated payment mechanism whereby CMP will pull payments via direct debit from a users bank account. The bank account information must be supplied to CMP in this scenario. The following fields are then required: • BankAccountNumber • BankSortCode • BankName	
PaymentTerm	String3	If not supplied, the value that is defaulted in comes from the Account Default Parm's Maint. The field is ADVPaymentTermsAR. If there is a default payment term specified in the default payment terms for the payment type that is used instead. The payment terms that are valid depend on the PaymentType and CompanyNumber that were provided.	Optional
AccountType	String3	Account Types indicate the type of Account to which Subscriptions belong, for example, 001 = VIP, 002 = Bad Debt. This is a classification of the Account. If not supplied, the value that is defaulted in comes from the Account Default Parm's Maint. The field is ADVSalesPersonCode. Value must be a valid Account Type.	Optional
SubLedgerCode	String6	This references an extra level of detail in the General Ledger and links to the external financials software. The main use of this code is to enable direct debits to be claimed from the bank account. If not supplied, the value that is defaulted in comes from the Subledger field in Account Default Parm's Maint. Value must be a valid Sub Ledger Code.	Optional
CreditLimit	Integer9	Relates to a set limit for invoiced but unpaid charges. It can also be used in	Optional

Element Name	Content Type	Description	Required?
		conjunction with usage limits which applies to unbilled units. Exceeding the limit can trigger an automated procedure. When unpaid charges reach a set amount a recovery procedure commences.	
HardwareCreditLimit	Integer9	This is the maximum amount of an order that is permitted. It is only used if the Hardware Credit Limit toolbox feature is switched on.	Optional
AccountPassword	String20	Password as specified by the user / customer.	Optional
AccountPin	Integer4	A randomly generated number will be supplied.	Optional
AccountUsage	String - Enumeration	This indicator controls what the Account can be used for. If no value is supplied then this defaults to SubscriptionAndSales/Both. Valid values are Subscription, SubscriptionAndSales and Sales. These appear in AgentView as - Subscription = Subscription - SubscriptionAndSales = Both - Sales = Sales Order Subscriptions cannot be added to an account when usage is Sales (usually referred to as a Hardware account). It is possible to add Subscriptions to a Subscription or to a SubscriptionAndSales (Both).	Optional
BankAccountNumber	String20	Only applicable if SEPA* is switched off . This optional field becomes mandatory and valid ONLY if the payment method associated with the Payment Type is Direct Debit. Setup can configure the valid lengths of the bank account number.	Optional

Element Name	Content Type	Description	Required?
BankSortCode	String20	Only applicable if SEPA* is switched off. This optional field becomes mandatory and valid ONLY when the payment type has a payment method of Direct Debit.	Optional
BankName	String30	Only applicable if SEPA* is switched off. If this is supplied it is stored as supplied and not validated. If it is not supplied then the sort code is used to retrieve the bank name from the CMP bank header table. For SEPA*, the request will be rejected if the Bank Name is included in the request. It will always retrieve the bank name from the CMP bank header table using the BIC.	Optional
ControlDigit	String2	Usually only supplied when the Payment Type has a payment method of Direct Debit.	Optional
NameOfPayer	String30	This becomes mandatory when the Payment Type has a payment method of Direct Debit. Use the following format for this field: "First name space last name"	Optional
DateMandateReceived	Date	This is the date that the DD mandate was received. For electronic forms of DD Mandate this should be set to the current date. For paper mandates, it's the date that the mandate was received by the relevant back office individual. YYYY-MM-DDZ Usually only supplied when the Payment Type has a payment method of Direct Debit.	Optional
DDSetupMethodCode	String6	Usually only supplied when the Payment Type has a payment method of Direct Debit.	Optional
CCDCCardNumber	String20	The actual number of the credit or debit card.	Optional

Element Name	Content Type	Description	Required?
		If the payment method associated with the Payment Type specified is Credit Card, then the Bank Account Number must be supplied. Rejected if PCI Compliance Toolbox feature is switched on.	
NameOnCard	String20	Provides details of who is making the payment. Mandatory if the payment method associated with the Payment Type specified is Direct Debit. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
FriendlyName	String70	Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
StartYear	Integer2	Indicates the year in a 2 digit numeric form. E.g. 07 for 2007. Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
StartMonth	String6	Indicates the month in numeric form must be one of: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12. Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
ExpiryYear	Integer2	Indicates the year in a 2 digit numeric form. E.g. 07 for 2007. Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on.	Optional
ExpiryMonth	Integer 2	Indicates the month in numeric form	Optional

Element Name	Content Type	Description	Required?
		must be one of: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12.	
CreditSecurityCode	String6	The card security code used. On many card types it is the last group of digits on the signature panel. Only applicable if the Payment Type has a payment method of Credit Card. Rejected if PCI Compliance Toolbox feature is switched on	Optional
CorporateCode	String6	The Corporate to which the Account will be added. If not specified, the account will not be associated with any corporate. If required an Account can be standalone or it can form part of a larger corporate structure.	Optional
EmailAddress	String	This adds an e mail address with the default email address type. The default e mail address type is defined in setup.	Optional
AccountSerialNumbers	Container	A container for one or more Account Serial Numbers. It is possible to configure up to 999 different serial numbers via setup. See Create AccountSerialNumber Request Container for details.	Optional
PaymentCardToken	Container	See PaymentCardToken Request Container for details.	Optional
IBAN	String34	International Bank Account Number Only applicable and mandatory if SEPA* is switched on.	Mandatory for SEPA only
BIC	String11	Bank Identifier Code Only applicable and mandatory if SEPA* is switched on.	Mandatory for SEPA only
MandateReference	String35	Only applicable and mandatory if SEPA* is switched on.	Mandatory for SEPA

Element Name	Content Type	Description	Required?
			only
MandateSignatureDate	Date	Only applicable if SEPA* is switched on.	Optional



SEPA is turned on via setting the System Property parameter group DIRECT.DEBIT.PAYMENT.SCHEME to have a value of SEPA. The default is to use BACS.

Address Request Container

The Address request container instructs the Address Service to update an Account with an address. This request contains the following elements:

Element Name	Content Type	Description	Required?
AddressData	Container - Choice	Choice of: - PersonalAddress - BusinessAddress	Mandatory

Personal Address Errors

For Personal Addresses, if multiple mandatory fields are not supplied the following error (the details depend on the fields not supplied) is returned:

```
<Error>
<MessageId>MISSING_ADDRESS_FIELD</MessageId>
<MessageText>Please complete the Title,Middle Name,Sur-
name,Address Line 1,Address Line 2,Address Line 3,
Address Line 4,Address Line 5,Postcode,Daytime Telephone,Evening
Telephone,Fax Number,
Address Type,Address Category,Occupation,Id Number,Date Of
Birth,Date Of Residence,
Gender field(s)</MessageText>
<ExtraInfo>Title,Middle Name,Surname,Address Line 1,Address Line
2,Address Line 3,
Address Line 4,Address Line 5,Postcode,Daytime Telephone,Evening
Telephone,Fax Number,
Address Type,Address Category,Occupation,Id Number,Date Of
Birth,Date Of Residence,
Gender</ExtraInfo>
</Error>
```

Business Address Errors

For Business Addresses, if multiple mandatory fields are not supplied the following error (the details of course depends on the fields not supplied, the complete list is shown here) is returned:

```
<Error>
<MessageId>MISSING_ADDRESS_FIELD</MessageId>
<MessageText>Please complete the Title,Fore-
name,MiddleName,Surname,Address Line 1,Address Line 2,
Address Line 3,Address Line 4,Address Line 5,Postcode,Company
Telephone,Contact Telephone,
Fax Number,Address Type,Address Category,Date Of Incor-
poration,Date Of Residence,Job Title,
Company Name,Company Registration,Industrial Classification field
(s)</MessageText>
<ExtraInfo>Title,Forename,MiddleName,Surname,Address Line 1,Ad-
dress Line 2,
Address Line 3,Address Line 4,Address Line 5,Postcode,Company
Telephone,Contact Telephone,
Fax Number,Address Type,Address Category,Date Of Incor-
poration,Date Of Residence,Job Title,
Company Name,Company Registration,Industrial Classification </Ex-
traInfo
</Error>
```

PersonalAddress Request Container

The PersonalAddress request container has the following elements:

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Optional
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Separated or BLANK.	Optional
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the available Customer Types configured in CMP.	Optional
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional

Element Name	Content Type	Description	Required?
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via CMP back office setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Request Container

The BusinessAddress request container has the following elements:

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Optional
Address3	String40	Line three of the company's address.	Optional
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides. Configurable CMP list.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional
DateOfIncorporation	Date	The date the company register at the address specified in the format YYYY-MM-DD.	Optional

Element Name	Content Type	Description	Required?
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact surname name.	Optional
JobTitle	String30	Company's contact job title.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via CMP back office setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

AccountSerialNumbers Request Container

The AccountSerialNumber request container contains the following elements:

Element Name	Content Type	Description	Required?
SerialNumberId	Range 1-999	The Managed Serial Number identification number. Must be a valid ID number in CMP configuration.	Mandatory
SerialNumberValue	String25	The actual network serial number value, for example mobile phone number. The default value that can be set up only applies to AgentView. Each serial number field can be configured via set up with the applicable allowed values, field type, and min and max allowable values.	Mandatory

PaymentCardToken Request Container

The PaymentCardToken request container contains the following elements:

Element Name	Content Type	Description	Required?
CardReference	VARCHAR (100)	The tokenised string representing the card.	Mandatory
CardNumber	String4	The last four digits of card number.	Optional
NameOnCard	String20	The name of the cardholder exactly as displayed on the card.	Optional
StartYear	String2	The year from which the card becomes valid, as shown on the card.	Optional
StartMonth	String2	The month from which the card becomes valid, as shown on the card.	Optional
ExpiryYear	String2	The year that the card expires, as shown on the card.	Mandatory
ExpiryMonth	String2	The month that the card expires, as shown on the card.	Mandatory

2.10.1.2 CreateGroup Response

CreateGroup response is the response to the [CreateGroup Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
GroupCode	String6	The automatically generated code associated to the Group created.	Mandatory

2. 10. 2Query Group

The QueryGroup web service enables an external client system to query a Group and retrieve Group Summary details for any existing CMP Group.

The following fields are not shown because this information is associated with the Posting Account (which is available via the QueryAccount web service):

- Amount in Query
- Balance
- CC Status

- Account Type
- Overdue

The user must pass in a valid CMP Group Code in order to retrieve the associated Group details.

Datasets exist for this web service, which enables the user to pass in a single value in order to retrieve a specific subset of information, such as:

- Address
- Discounts

The Group details are returned to the user if the request has been successful.

Submitting invalid data in the request will result in an error message.

2.10.2.1 QueryGroup Request

The QueryGroup tag instructs the Group Service to query a group. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
GroupCode	String6	The code assigned to the Group to be queried.	Optional
Datasets	Container	Contains one or more of the following datasets • BASIC • DISCOUNTS • ADDRESS	Optional

2. 10. 3UpdateGroup

The UpdateGroup web service enables an external client system to update Group Information for an existing CMP Group.

In order to update the Group details, the user must pass in a valid CMP Group Code along with the relevant information to be updated.

Users are able to update individual attributes of the Group details as per AgentView Edit Group screen.

Invalid requests are rejected with an error message.

2.10.3.1 UpdateGroup Request

The UpdateGroup tag instructs the Group Service to update Group details. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
GroupCode	String6	The automatically generated Group Code associated with the Group to be updated.	Mandatory
UpdateGroupBasic	Container	See UpdateGroupBasic Request Container for details.	Optional

UpdateGroupBasic Request Container

The UpdateGroupBasic request container contains the following elements:

Element Name	Content Type	Description	Required?
GroupDescription	String30	A full description of the Group.	Optional
PostingAccountNumber	Integer8	Unique number to identify the Posting Account.	Optional
AddressNumber	Integer 0-99999999	The Account level delivery address number which is used to identify one of the several delivery addresses available.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

2.10.3.2 UpdateGroup Response

The UpdateGroup response is the response to the UpdateGroup request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2. 11 Payment Service

The Payment Service SOAP web service has been deprecated. Use the RESTful Payments API to:

- Create payments
- Record Payments
- Get payment errors
- Release payments
- View/record payment history

2. 12 Porting Service

The information in this section corresponds to the CMP web services as specified in the [porting.wsdl](#).

The following web services are included:

- [Cancel Port In](#)
- [Create PAC](#)
- [Port In](#)

2. 12. 1 CancelPortIn

The CancelPortIn web service enables an external client system to cancel a pending port in request, providing it is in a status of closed. The request is rejected for any of the other statuses returned with the [DLPPortIn](#) data set in the [QueryAccount Response](#).

Once the cancel a port in request has been invoked, the PAC Entry will revert back to an open status. It is not possible to cancel a PAC Entry once it has been locked by Syniverse, if CMP sends the cancel request for an Open PAC entry to Syniverse, it would be rejected.

CMP rejects a CancelPortIn request if the port in has already taken place. For example, the status of the PAC in the database is processed (as signified by the IN_PROGRESS, SUCCESS or ERROR Port In Status results in the DLPPortIn data set).

Port in can only be cancelled up to 6pm on the day before the port. This is determined by a system parameter flag in CMP back office configuration.

The response to a cancel request is either an empty response or an error message.

2.12.1.1 CancelPortIn Request

The CancelPortIn tag instructs the Porting Service to cancel a Port In. This tag contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SubscriptionNumber	Integer8	The Subscription Number with which the port in information is associated. Each Subscription may have more than one port in returned (if for instance a pending port in was cancelled and then initiated again).	Mandatory

Sample CancelPortInRequest

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/porting/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:CancelPortIn>
      <def:Request>
        <!--Optional:-->
        <ExternalReference>ABC!"£</ExternalReference>
        <SubscriptionNumber>123456</SubscriptionNumber>
      </def:Request>
    </def:CancelPortIn>
  </soapenv:Body>
</soapenv:Envelope>
```

2.12.1.2 CancelPortIn Response

The CancelPortIn response is the response to the CancelPortIn request. It has the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

If the ExternalReference is not populated, an empty response is returned, for example:

```
<CancelPortInResponse>
</CancelPortInResponse>
```

If the CancelPortIn request is not successful a SOAP web service fault is returned.

2.12.2 CreatePAC

The CreatePAC toolbox web service enables an external client system to create a PAC (Porting Authorisation Code) within CMP with one or more Subscriptions in it.

2.12.2.1 CreatePAC Request

The CreatePAC tag instructs the Porting Service to create a PAC. This tag contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
Subscriptions	Container	Contains one or more Subscription elements, each holding a Subscription.	Mandatory
ApplyCharge	Boolean	Defaults to True.	Optional
SPOptionalData	Container	See SPOptionalData Request Container for details.	Optional

Subscriptions Request Container

The Subscriptions request container has the following elements:

Element Name	Content Type	Description	Required?
Subscription	Container	One or more repetitions of the required CMP Subscription IDs.	Optional

SPOptionalData Request Container

The SPOptionalData request container has the following elements:

Element Name	Content Type	Description	Required?
ContactInfo	Container	See ContactInfo Request Container for details.	Optional
AdditionalInfo	Container	See AdditionalInfo Request Container for details.	Optional

ContactInfo Request Container

The ContactInfo request container has the following elements:

Element Name	Content Type	Description	Required?
Name	String50	The contact name of the Subscriber who is porting to another network.	Optional
Details	String120	The contact details of the Subscriber who is porting to another network.	Optional

AdditionalInfo Request Container

The AdditionalInfo request container has the following elements:

Element Name	Content Type	Description	Required?
AccountNumber	String50	A private account number which, along with the reference, is used for linking an entry (MSISDN contained in the system) to external Service Provider systems.	Optional
Ref	String120	A private reference which, along with the account number, is used for linking an entry to external Service Provider systems.	Optional
Spid	String120	The content of the Spid (Service Provider Identifier) element is required by the network operators for migration transfers.	Optional

See Syniverse MNP Number Portability - Service Provider API Specification document for further information on the above.

2.12.2.2 CreatePAC Response

The CreatePAC response is the response to the CreatePAC request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
PACDetail	Container	See PACDetail Request Container for details.	Mandatory

PACDetail Response Container

The PACDetail response container has the following elements:

Element Name	Content Type	Description	Required?
PACCode	String9	The unique PAC (Port Authorisation Code) retrieved from Syniverse. This is created if the customer wishes to port out to another network.	Mandatory
EntryCount	Integer	The MSISDN contained in the system.	Mandatory
CreationDate	Date	The PAC creation date. YYYY-MM-DDZ	Optional
ExpiryDate	Date	The PAC expiry date. YYYY-MM-DDZ	Optional

2. 12. 3PortIn

Syniverse is used as an MNP (Mobile Number Portability) interface by UK MNOs (Mobile Network Operators) to initiate the porting process.

The PortIn web service enables an external client system to retrieve the PAC from Syniverse, and then close the PAC with Syniverse.

As part of this process, a non-network number change may be required to get the Port In Number into Non-Managed Serial Number 4 field as per current CMP GUI process.

The Error On Invalid Port Date flag is used when sending the request to Syniverse to decide whether Syniverse is to throw an error or substitute in the next available port date and return it.

This web service accepts a PAC code, a Port In number, a Subscription Number and a Port Date.

2.12.3.1 PortIn Request

The PortIn tag instructs the Porting Service to create a Port In. This tag contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
PortDetails	Container	See PortDetails Request Container for details.	Mandatory

PortDetails Request Container

The PortDetails request container has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionNumber	Integer8	Indicates the unique system generated subscription number.	Mandatory
PACCode	String9	The unique PAC (Port Authorisation Code) retrieved from Syniverse. This is created if the customer wishes to port out to another network.	Mandatory
PortInNumber	String25	This is the new number to be ported in.	Mandatory
PortDate	date	The date on which the number is to be ported in.	Mandatory
UseSuggestedDateOnConflict	Boolean	The useSuggestedDateOnConflict is passed to Syniverse. - If the date supplied is not available for porting and if the useSuggestedDateOnConflict flag is set to True, Syniverse will return the next available date for porting which CMP will return in the response. - If the useSuggestedDateOnConflict is False and the date is not available for porting, then the request will be rejected and an error will be returned.	Optional

2.12.3.2 PortIn Response

The PortIn response is the response to the [PortIn request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
PortDate	date	The date on which the portin will occur. See useSuggestedDateOnConflict flag in PortDetailsRequest Container. • If the date supplied in this field is not available for porting and if the useSuggestedDateOnConflict flag is set to True, Syniverse will return the next available date for porting which CMP will return in the response. • If the useSuggestedDateOnConflict is False and the date supplied in this field is not available for porting, then the request will be rejected and an error will be returned.	Mandatory

2.13 Search Service

The information in this section corresponds to the CMP web services as specified in the [searchservice.wsdl](#).

The following web services are included:

- [Search Account By Serial Number](#)
- [Search By Attribute Value](#)
- [Search By Name and Address](#)
- [Search Subscriptions By Serial Numbers](#)

2.13.1 SearchAccountsBySerialNumber

The SearchAccountsBySerialNumber web service allows external applications to search for Accounts using Account Serial Numbers. It accepts an Account Serial Number and an optional Account Serial Status to help narrow or widen the search.

2.13.1.1 SearchAccountsBySerialNumber Request

The SearchAccountsBySerialNumber tag instructs the Search Service to search for an Account using an Account Serial Number. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountSerialNumber	String25	The Account Serial Number to search for an Account with.	Mandatory
SerialStatus	String	Search for the status specified. Can be used to refine or widen the scope of the search. If not supplied then all statuses are searched. Possible values: • ALL • CURRENT	Optional

2.13.1.2 SearchAccountsBySerialNumber Response

The SearchAccountsBySerialNumber response is the response to the [SearchAccountsBySerialNumber request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
SearchAccountResults	Container	Contains zero or more SearchAccountResult response containers. See SearchAccountResult response container for details.	Mandatory
QueryLimitExceeded	Boolean	Set to True if the maximum number of records that may be returned as defined in the configuration, was exceeded.	Mandatory

This web service uses a CMP back office configurable Query Limit parameter that contains the maximum number of Account Numbers to return. If the search finds more records than the query limit then the number of Account Numbers actually returned in the response is equal to the Query Limit and the Query Limit Exceeded flag is set to True. The Query Limit is configured as part of the standard CMP Web Service configuration.

SearchAccountsResults Response Container

The SearchAccountsResults response container contains the following elements:

Element Name	Content Type	Description	Required?
SearchAccountsResult	Container	See SearchAccountsResult response container for details.	Optional

SearchAccountsResult Response Container

The SearchAccountsResult response container contains the following elements:

Element Name	Content Type	Description	Required?
AccountNumber	Integer8	The account number automatically allocated upon account creation in CMP.	Mandatory
AccountSerialNumber	String25	The Account Serial Number used to search with.	Mandatory
SerialNumberStatus	String	Possible values: - CURRENT - SUPERSEDED.	Mandatory
AccountSerialNumberId	Integer3	This displays Account Serial Numbers held against an Account.	Mandatory
AddressNumber	Integer8	The CMP address number for the Subscriber.	Optional
CorporateCode	String6	The unique ID allocated to the Corporate by the CMP, if appropriate.	Optional
GroupCode	String6	The unique ID allocated to the Group by the CMP, if appropriate.	Optional
AccountType	String3	Indicates the Account Type the Subscription belongs to, e.g. VIP Account.	Optional
AccountUsage	String - Enumeration	Possible values: - Subscription - Sales - SubscriptionAndSales	Optional

It is possible for the same Account Number to be returned multiple times when Account Serial Numbers exist multiple times against an Account.

2. 13. 2SearchByAttributeValue

The SearchByAttributeValue web service enables an external client system to search Accounts and Subscriptions for an Attribute held in CMP as the search identifier.

The search retrieves all Accounts or Subscriptions matching the Attribute supplied in the request.

The three optional parameters Attribute Group, Attribute ID, and Attribute Status can be used to either narrow or widen the scope of the search. The default action for optional parameters that are not supplied is to ignore that parameter in the search, there by potentially returning a wider result set than if a parameter was supplied.

2.13.2.1 SearchByAttributeValue Request

The SearchByAttributeValue tag instructs the Search Service to search for Attributes in Accounts and Subscriptions. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
CustomerLevel	String	Possible values: • ACCOUNT • SUBSCRIPTION	Mandatory
AttributeValue	String120	The Attribute value to search for.	Mandatory
AttributeGroupCode	String	Identifier for the Attribute Group being searched for.	Optional
AttributeID	String2	Unique reference for the Attribute within the Attribute Group that is being searched.	Optional
AttributeStatus	String	If supplied will search for the status specified. If not supplied then all statuses will be searched. Possible values: • ALL • CURRENT.	Optional

2.13.2.2 SearchByAttributeValue Response

The SearchByAttributeValue response is the response to the [SearchByAttributeValue request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
SearchResults	Container	The Search Results container contains an Attributes container. The Attributes Response container contains zero or more Account Response containers and zero or more Subscription Response containers.	Optional
QueryLimitExceeded	Boolean	Set to True if the maximum number of records that may be returned as defined in the configuration, was exceeded.	Optional

Attributes Response Container

The Attributes response container has the following elements:

Element Name	Content Type	Description	Required?
Attribute	Container	See Attribute response container for details.	Optional

Attribute Response Container

The Attribute response container has the following elements:

Element Name	Content Type	Description	Required?
Account	Container	See Account Response Container for details.	Optional
Subscription	Container	See Subscription Response Container for details.	Optional

Account Response Container

The Account response container has the following elements:

Element Name	Content Type	Description	Required?
AccountNumber	Integer8	Unique ID for the Account	Mandatory
AccountType	String6	Indicates the sort of Account Type the Subscription belongs to, i.e. Nursery Account.	Optional
AttributeValue	Container	See AttributeValue response container for details.	Optional
AddressNumber	Integer8	The CMP Address Number for the Subscriber.	Optional
AccountUsage	String1	Possible values: - Subscription - Sales - SubscriptionAndSales	Optional
CorporateCode	String6	The ID allocated to the Corporate Account by the system, if appropriate.	Optional
GroupCode	String6	The ID allocated to the Group Account by the system, if appropriate.	Optional

AttributeValue Response Container

The AttributeValue response container has the following elements:

Element Name	Content Type	Description	Required?
AttributeGroupCode	String6	Identifier for the Attribute Group being searched for.	Optional
AttributeId	Decimal2	Unique reference for the Attribute within the Attribute Group that is being searched by.	Optional
AttributeValue	String120	The search text.	Optional
AttributeStatus	String	If supplied will search for the status specified. If not supplied then all statuses will be searched. Possible values: - ALL - CURRENT.	Optional

Subscription Response Container

The Subscription response container has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionNumber	Integer8	The unique system generated reference number for the Subscription.	Mandatory
AgreementNumber	Integer8	The CMP Agreement Number of the Subscription.	Mandatory
AccountNumber	Integer8	Unique ID for the Account.	Optional
AttributeValue	Container	See AttributeValue Response Container for details.	Optional
CorporateCode	String6	The ID allocated to the Corporate Account by the system, if appropriate.	Optional
GroupCode	String6	The ID allocated to the Group Account by the system, if appropriate.	Optional
CompanyNumber	String3	The Company Number to be assigned to the account. Value must already be setup in CMP.	Mandatory
TariffCode	String	Unique identifier code for the Tariff. The Tariff is what determines the network that the Subscription will be added to.	Mandatory
NetworkCode	String6	The Network Code of the Network that the Subscription is on. If a Network is selected, only Subscriptions where the Network Code value on the Subscription file equals this value are returned.	Optional
DisconnectedDate	Date	This displays the date of Subscription disconnection. YYYY-MM-DDZ	Optional
ConnectedDate	Date	This displays the date of Subscription connection. YYYY-MM-DDZ	Optional
TerminateOn	Date	Derived from the Subscription. Date of Subscription termination.	Optional

Element Name	Content Type	Description	Required?
		YYYY-MM-DDZ	
ConnectionReason	String4	Reason Code supplied at time of subscriber creation.	Optional
AddressNumber	Integer8	The CMP address number for the subscriber.	Optional
EmailAddress	String70	The subscriber's email address.	Optional

AttributeValue Response Container

The AttributeValue response container has the following elements:

Element Name	Content Type	Description	Required?
AttributeGroupCode	String6	Identifier for the Attribute Group being searched for.	Optional
AttributeId	Decimal2	Unique reference for the Attribute within the Attribute Group that is being searched by.	Optional
AttributeValue	String120	The search text.	Optional
AttributeStatus	String	If supplied will search for the status specified. If not supplied then all statuses will be searched. Possible values: • ALL • CURRENT.	Optional

2. 13. 3SearchByNameAndAddress

The SearchByNameAndAddress web service enables an external client system to search for a CMP Subscriber's Subscription, Agreement, Account, Corporate, or Group by name and address.

The user must pass in either a full name and address, or partial values of the name and address, in order to retrieve either an accurate match or a subset of possible matches for that customer. A filter option enables the user to select the level at which the search should be performed (for example, Account level).

A limit is applied to the number of records that can be returned in a single web service call. If this limit is exceeded, the maximum number of records is still returned but the user is notified that the limit has been reached.

Submitting invalid data in the request will result in an error message.



The number of lines of information returned is restricted by a maximum - this maximum is determined by configuration.

2.13.3.1 SearchbyNameAndAddress Request

The SearchbyNameAndAddress tag instructs the Search Service to search using a name and address. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
Postcode	String10	Direct input field for Post Code relevant to address.	Mandatory
Name	String25	The name of the Subscriber.	Optional
Address	String25	The address of the Subscriber.	Optional
CustomerLevel	String	The level within the hierarchy at which the name and delivery address of the Subscriber is located. Options are; • SUBSCRIPTION • ACCOUNT • AGREEMENT • CORPORATE • GROUP	Mandatory

2.13.3.2 SearchbyNameandAddress Response

SearchbyNameandAddress response is the response to the [SearchbyNameandAddress Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
SearchResults	Container	Contains zero or more repetitions of SearchResult. See SearchResult Response Container for details.	Mandatory
QueryLimitExceeded	Boolean	Set to True if the maximum number of records that may be returned as defined in the configuration, was exceeded.	Optional

SearchResult Response Container

The SearchResult response container has the following elements:

Element Name	Content Type	Description	Required?
CustomerReference	String	Dependent on SearchbyName-andAddress Request > CustomerLevel. Customer reference is either used by number value (for SUBSCRIPTION, ACCOUNT, AGREEMENT types) or used by code value (CORPORATE, GROUP).	Mandatory
Description	String	Equivalent to Address Text.	Optional

2. 13. 4SearchSubscriptionsBySerialNumber

The SearchSubscriptionsBySerialNumber toolbox web service enables an external client system to search for Subscriptions using any Managed Serial Numbers, not just the Primary Serial Number. This web service can accept a Managed Serial Number and an optional range of additional criteria to help narrow or widen the search; potentially returning more Subscription records than the [Query Subscription](#) web service.

Therefore this service retrieves a subset of Subscription information. If more information is required for a specific Subscription then this will involve a subsequent call to the existing Query Subscription web service.

The SearchSubscriptionsBySerialNumber web service can be used as a Subscription search facility for a third party user interface. Once the Subscription details are known, the QuerySubscription web service can be used to retrieve any further details of the Subscription.



This web service uses a configurable parameter containing the maximum number of Serial Numbers to return. If the search returns more records than the maximum number then the request only returns the maximum number of records.

2.13.4.1 SearchSubscriptionsBySerialNumber Request

The SearchSubscriptionsBySerialNumber tag instructs the Subscription Service to search for a Subscription Serial Number. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
NetworkSerialNumber	String25	The Serial Number to search for such as mobile phone number.	Mandatory
NetworkSerialNumberID	Integer1	If supplied, this targets the search against the specified ID. If not supplied then all Managed Serial Number IDs are searched. Possible values: 1, 2, 3, 4, 5.	Optional
NetworkCode	String6	If supplied, this searches for the supplied value against the network. If not supplied then all networks are searched.	Optional
NetworkSerialStatus	String8	If supplied, this searches for the status specified. If not supplied then all statuses are searched. Possible values: • ALL • CURRENT	Optional
SubscriptionStatus	String6	If supplied, this searches for the status specified. If not supplied then all statuses are searched. Possible values: • ALL • ACTIVE The value ACTIVE returns subscriptions where the Termination Invoice Produced flag is set to False (0).	Optional



The search retrieves all Subscriptions matching the Managed Serial Number supplied in the request. The four optional parameters can be used to refine or widen the scope of the search. The default action for optional parameters that are not supplied is to ignore that parameter in the search, thereby potentially returning a wider result set than if a parameter was supplied.

2.13.4.2 SearchSubscriptionsBySerialNumber Response

SearchSubscriptionsBySerialNumber response is the response to the [SearchSubscriptionsBySerialNumber Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
SearchSubscriptionsResults	Container	Contains zero or more Search Subscription Result Containers. See SearchSubscriptionResults Response Container for details.	Mandatory
QueryLimitExceeded	Boolean	Set to True if the maximum number of records that may be returned as defined in the configuration, was exceeded.	Mandatory



A query limit is configured for the web service as per standard CMP web services configuration. If the number of Serial Numbers in CMP exceeds the query limit for this web service then the number of Serial Numbers actually returned in the response should be equal to the query limit and the QueryLimitExceeded element will be set to 'true'.

If the query limit is exceeded, the records are returned in Network Effective Date (of Serial Number) in descending order, ensuring the most relevant records are returned in the response.

SearchSubscriptionResults Response Container

The SearchSubscriptionResults response container has the following elements:

Element Name	Content Type	Description	Required?
SearchSubscriptionResult	Container	Zero or more repetitions, each representing a matching Subscription for the Serial Number. See SearchSubscriptionResult response container for details.	Optional

SearchSubscriptionResult

The SearchSubscriptionResult response container has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionNumber	Integer8	The unique system generated reference number for the Subscription.	Mandatory
NetworkSerialNumber	String25	The Serial Number to search for such as mobile phone number.	Mandatory
NetworkSerialNumberID	Integer1	If supplied, this targets the search against the specified id number. If not supplied then all Managed Serial Number IDs are searched. Possible values: • 1, 2, 3, 4, 5.	Mandatory
NetworkCode	String6	The network code of the network that the subscription is on. If a network is selected, only consider Subscriptions where the network code value on the Subscription file equals the value entered.	Mandatory
NetworkSerialStatus	String	Possible values: • Changing • Current • Superseded	Mandatory
ConnectedDate	date	This displays a date on which the Subscription was connected. YYYY-MM-DDZ	Optional
LastAmendedDate	date	This displays a date on which the Subscription was last amended. YYYY-MM-DDZ	Optional
DisconnectedDate	date	This displays a date on which the Subscription was disconnected. YYYY-MM-DDZ	Optional
Terminated	boolean	Indicates if the Subscription is terminated.	Optional



It is possible for the same Subscription Number to be returned multiple times because serial numbers can exist multiple times against a Subscription.

2. 14 Security Service

The information in this section corresponds to the CMP web services as specified in the [securityservice.wsdl](#).

The following web services are included:

- [Query Secure Session](#)

2. 14. 1QuerySecureSession

The QuerySecureSession web service enables single sign on between CMP and a third party application by allowing an external client system to query the CMP database and retrieve the unique security token along with other appropriate data that was originally passed in from AgentView for example mobile number, Account Number, user ID etc.

The CMP single sign on feature is mainly used between AgentView and a selfcare application. It utilises AgentView weblinks functionality so that, when a user is in the GUI and is in a particular entity be it an Account or Subscription, they can choose to select the appropriate weblink and single sign in to another browser based application.

CMP to Third Party Application Single Sign On Process

-
-  There is only one implementation of this single signon process, that passes the Account Number as an attribute. Other implementations i.e. to pass more attributes would require a CMP code change.
-

Prerequisite

The CMP weblinks for the target application must be configured with the appropriate URL for the third party, to generate a secure token and to pass the relevant parameters (e.g. mobile number, Account Number, agent ID etc.) to the third party application.

Sequence of Interactions

- The user clicks on the weblink for the third party application.
- The GUI calls the CMP Enterprise Java Bean (EJB) Layer passing through the pre-configured parameter (e.g. Account Number).
- The CMP EJB Layer generates a unique token (random integer) and stores this in the CMP database along with the parameters that were passed through from the GUI.
- The CMP EJB Layer passes the secure token back to the GUI.
- The GUI launches a browser with the pre-configured URL and the secure token as a parameter in the URL.
- The request is received by the third party application.

- The third party application identifies that it does not have a valid session to service that request.
- The third party application calls the CMP QuerySecureSession web service, passing through the session token that originally came from the GUI.
- The CMP web service checks in the database for the previously stored secure token and finds a match.
- The CMP web service checks that the security token has not expired and, if it is not expired, then returns the token along with the other data that was saved with it. This is the data that was originally passed in from the GUI (e.g. mobile number, agent ID, Account Number etc.). The token is then deleted or inactivated.

If the secure token does not match any in the database, or if the token has been expired, then an error is returned to the third party application.

- The third party application logs the user into the application.

2.14.1.1 QuerySecureSession Request

The QuerySecureSession tag instructs the Security Service to pass the generated security token. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SessionToken	String10	The description of the unique security token.	Mandatory

2.14.1.2 QuerySecureSession Response

QuerySecureSession response is the response to the [QuerySecureSession Request](#). This contains the following elements:

Element Name	Content Type	Description	Element Name
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
SessionToken	String10	The description of the unique security token.	Mandatory
CompanyNumber	String3	This details the Company Name.	Mandatory
UserName	String100	This displays the name of the user who is trying to securely sign on to the system.	Mandatory
SessionAttributes	Container	Zero or more repetitions. See Attribute Response Container for details.	Optional

Attributes Response Container

The Attributes response container has the following elements:

Element Name	Content Type	Description	Required?
Attribute	Container	Zero or more repetitions. See Attribute response container for details.	Optional

Attribute Response Container

The Attribute response container has the following elements:

Element Name	Content Type	Description	Required?
Attributeld	Integer 1-99	A unique ID for the Attribute. For example, 01. This is chosen from a list of Attributes configured against the chosen Attribute Group in CMP Back Office configuration.	Mandatory
AttributeValue	String30	A full description of the Attribute. For example, Dedicated Lease Line Connection.	Optional

Sample QuerySecureSession Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <ns2:QuerySecureSessionResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/security/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/workflow/definition"
xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
      <ns2:Result>
        <ExternalReference>?</ExternalReference>
        <SessionToken>447332144</SessionToken>
        <CompanyNumber>001</CompanyNumber>
        <UserName>JOHNRV</UserName>
        <SessionAttributes>
          <Attribute>
            <AttributeId>1</AttributeId>
            <AttributeValue>10</AttributeValue>
          </Attribute>
        </SessionAttributes>
      </ns2:Result>
    </ns2:QuerySecureSessionResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```

</ns2:QuerySecureSessionResponse>
</soapenv:Body>
</soapenv:Envelope>

```

In this example, Attribute ID 1 is the CMP Account Number (10).

2.14.1.3 Sample Error Responses

If an invalid token that was passed in:

```

<soapenv:Envelope xmlns:soapen-
v="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>
<soapenv:Fault>
<faultcode>soapenv:Server</faultcode>
<faultstring>ValidationException</faultstring>
<detail>
<ns3:ValidationFault xmlns:n-
s3="http://mdsuk.com/ws/dise3g/workflow/definition" xmlns:n-
s2="http://mdsuk.com/ws/dise3g/security/definition"
xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
<Details>
<MessageId>mds.dise3g.validation</MessageId>
<MessageText>Validation errors in the data submitted for the
request</MessageText>
</Details>
<Errors>
<Error>
<MessageId>UNABLE_TO_FIND_RECORD</MessageId>
<MessageText>Secure Session Request is invalid for , SecureSes-
sion 447332144.</MessageText>
<ExtraInfo>SecureSessionRequest|, SecureSession 447332144.</Ex-
traInfo>
</Error>
</Errors>
</ns3:ValidationFault>
</detail>
</soapenv:Fault>
</soapenv:Body>
</soapenv:Envelope>

```

If the secure token had timed out:

```

<soapenv:Envelope xmlns:soapen-
v="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>
<soapenv:Fault>

```



```
<faultcode>soapenv:Server</faultcode>
<faultstring>ValidationException</faultstring>
<detail>
<ns3:ValidationFault xmlns:n-
s3="http://mdsuk.com/ws/dise3g/workflow/definition" xmlns:n-
s2="http://mdsuk.com/ws/dise3g/security/definition"
xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
<Details>
<MessageId>mds.dise3g.validation</MessageId>
<MessageText>Validation errors in the data submitted for the
request</MessageText>
</Details>
<Errors>
<Error>
<MessageId>SESSION_ID_TIMEOUT</MessageId>
<MessageText>Requested Session ID has timed out</MessageText>
<ExtraInfo>Requested Session ID has timed out</ExtraInfo>
</Error>
</Errors>
</ns3:ValidationFault>
</detail>
</soapenv:Fault>
</soapenv:Body>
</soapenv:Envelope>
```

2. 15 Service Service

The information in this section corresponds to the CMP Toolbox web services as specified in the serviceservice.wsdl.

The following web services are included:

- [Create Service](#)
- [Query Account Services](#)
- [Query Subscription Services](#)
- [Update Service](#)

2. 15. 1 CreateService

The CreateService web service enables an external client system to create a CMP Service against a Subscription or Agreement within CMP.

All non-usage items applied to a Subscription, whether chargeable or non-chargeable, are referred to as Services. Services can be applied as a one-off (for example: Connection Fee, Administration Fee, Change of Ownership Fee) or can be recurring (for example, Line Rental, Insurance, Itemised Billing).

The user must pass in a valid CMP Service Code, Subscription (or Agreement Number) and an Effective Date for the Service.

A Long Description for the Service is to be specified at the point of creating Account and Subscription level services.

Submitting invalid data in the request will result in an error message.

2.15.1.1 CreateService Request

The CreateService tag instructs the Services Service to create a Service. This tag contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
ServiceData	Container	See Create Service Data Request Container for details.	Mandatory
AuditRecord	Container	See AuditRecord Request Container for details.	Optional

ServiceData Request Container

The ServiceData request container has the following elements:

Element Name	Content Type	Description	Required?
CustomerLevel	String	One of: - Subscription - Account	Mandatory
CustomerLevelReference	String8	Pass in Subscription Number or Agreement Number depending on Customer Level value.	Mandatory
EffectiveDate	date	YYYY-MM-DDZ	Mandatory
ExpiryDate	date	YYYY-MM-DDZ	Optional
ServiceCode	String6	This details the Code attributed to the Service as it appears on the invoice (for example, LINECH).	Mandatory
SalesPersonId	Integer8	The sales person or sales channel (Dealer, Internet, Call Centre, etc.) via which the connection has been processed.	Optional
SalesAccountReference	Integer8	A unique reference number for the sales person or sales channel (Dealer, Internet, Call Centre, etc.) via which the upgrade was ordered.	Optional
ServicePrice	Currency - Decimal	The Price to be applied to the Service. - If this value is not supplied, the price is set to the default from CMP configuration (as per the current logic). - Where the value is supplied, it is validated against the min/max values from the Tariff Service File or Ser-	Optional

Element Name	Content Type	Description	Required?
		vice Configuration (as per the current logic when updating the Price via the Update Service web service).	
Description	String30	The Description to be applied to the Subscription Service Record for the Subscriber. - If this value is not supplied, the description is set to that from the Tariff Service File or Service Configuration (as per the current logic). - Where a description is supplied, the calling system can pass any value of less than 30 characters. The Description value should not be populated for Agreement Services. If supplied, the value will not be applied.	Optional
LongDescription	String	This details a longer descriptive text attributed to the Service (120-characters).	Optional
AccountServiceAgreement	String8	May be supplied when the customer level is Account.	Optional
SuppressRemainingCharge	Boolean	This is a Yes/No option which is used by Invoice Production to determine whether or not to apply the Contract Expiry Charge to the subscriber as part of generating the	Optional

Element Name	Content Type	Description	Required?
		invoice.	
ContractReference	String12	This is a Reference ID that can be assigned to the individual service contract.	Optional
PriceConsolidationService	String6	This indicates the name of the Discount Consolidated Service applied to the Subscription Service in CMP back office.	Optional

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The program name should be hard coded in the calling application to uniquely identify that application.	Mandatory

Sample CreateService Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/services/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:CreateService>
      <def:ServiceData>
        <!--You may enter the following 3 items in any order-->
        <!--Optional:-->
        <ExternalReference>?</ExternalReference>
        <ServiceData>
          <!--You may enter the following 13 items in any order-->
          <CustomerLevel>SUBSCRIPTION</CustomerLevel>
          <CustomerLevelReference>2</CustomerLevelReference>
          <effectiveDate>2014-09-22</effectiveDate>
          <!--Optional:-->
          <serviceCode>SPREMC</serviceCode>
        </ServiceData>
      </def:ServiceData>
    </def:CreateService>
  </soapenv:Body>
</soapenv:Envelope>
```

```

</ServiceData>
<!--Optional:-->
<AuditRecord>
<UserID>JOHNRJ</UserID>
<Program>TESTS</Program>
</AuditRecord>
</def:ServiceData>
</def:CreateService>
</soapenv:Body>
</soapenv:Envelope>

```

2.15.1.2 CreateService Response

CreateService response is the response to the [CreateService Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Mandatory

2.15.1.3 Sample CreateService Response

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <ns2:CreateServiceResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/services/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/workflow/definition"
xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
      <ns2:Result>
        <ExternalReference>?</ExternalReference>
      </ns2:Result>
    </ns2:CreateServiceResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

2. 15. 2QueryAccountServices

The QueryAccountServices web service enables an external client system to query an Account Service and return the additional contract information linked with Account

Service records.

For example, if a Subscriber requests remaining contract period details for Account Contract Services.

2.15.2.1 QueryAccountServices Request

The QueryAccountServices tag instructs the Account Service to query for Account details. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountNumber	Integer8	The unique system generated reference number for the Account.	Mandatory
StatusFilter	String	Possible Values • ALL • ACTIVE This element determines whether all Account Services are returned or just those which are currently active.	Mandatory

2.15.2.2 QueryAccountServices Response

The QueryAccountServices response is the response to the [QueryAccountServices Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
AccountServices	Container	Contains zero or more Account Service elements. See AccountServices Response Container for details.	Mandatory
QueryLimitExceeded	Boolean	Set to True if the maximum number of records that may be returned as defined in the configuration, was exceeded.	Mandatory

AccountServices Response Container

The AccountServices response container has the following elements:

Element Name	Content Type	Description	Required?
ServiceCode	String6	Unique ID for the Service configured in CMP.	Mandatory
EffectiveDate	Date	The Date from which the Service becomes effective. YYYY-MM-DD	Mandatory
ExpiryDate	Date	The Date on which the Service will expire. YYYY-MM-DD	Optional
ServiceDescription	String30	A description of the Service linked to the Subscription.	Optional
Price	Decimal9,2	The Price at which the Service is charged.	Optional
NominalCode	String30	The Nominal Code to which the Account Service is charged.	Optional
InvoiceThisService	Boolean	True if the Account Service is valid for invoicing.	Optional
LongDescription	String120	This details a longer descriptive text attributed to the Service (120-characters).	Optional
PackageCode	String6	Unique ID for the package used to add the Account Service.	Optional
PackageDescription	String30	The descriptive name for the package used to add the Account Service	Optional
PricePeriodCoverage	Container	See PricePeriodCoverage Response Container for details.	Optional
SalesAccountNumber	Integer8	Sales Account Number of the salesperson who introduced the customer to the Service.	Optional

Element Name	Content Type	Description	Required?
BillingOffset	Integer2	The period by which Service is billed in advance.	Optional
AddingEvent	Integer9	Account Services can be added by Workflow Events. This element contains the ID of the Workflow Event that added this Service.	Optional
NetworkConfirmed	Boolean	Set to True if the Account request has been confirmed at Network level.	
Migrated	Boolean	Set to True if the Account has been migrated between Tariffs.	Optional
RecurringCharge	Boolean	Set to True if a recurring Service Charge is to be applied to the Account.	Optional
PerBill	Boolean	Set to True if the Service is charged on each bill. Set to False for a one-off payment.	Optional
BilledUntil	Date	YYYY-MM-DD The last date on which the customer was billed for the Service.	Optional
ServiceBarred	Boolean	Set to True if the Service is barred.	Optional
ContractService	Boolean	The value to be retrieved from the Service Code set up.	Optional
ContractDuration	Integer3	The value to be retrieved from the Service Code set up.	Optional
SuppressRemainingContractCharge	Boolean	This is a Yes/No option which is used by Invoice	Optional

Element Name	Content Type	Description	Required?
		Production to determine whether or not to apply the Contract Expiry Charge to the subscriber as part of generating the invoice.	
ContractReference	String12	A 12-character reference ID that can be assigned to the Service contract. This field is displayed for Contract Services only.	Optional
Last Amended Date	Date	YYYY-MM-DD	Optional

PricePeriodCoverage Response Container

The PricePeriodCoverage response container has the following elements:

Element Name	Content Type	Description	Required?
CoverageType	String	Enumeration: • Days • Months	Mandatory
CoverageValue	Integer3	The value of the coverage during the selected period.	Mandatory

2. 15. 3QuerySubscriptionServices

The QuerySubscriptionServices web service enables an external client system to query a Subscription Service and return the additional contract information linked with Subscription Service records.

For example, this service allows a subscriber to request remaining contract period details for Subscription Contract Services.

2.15.3.1 QuerySubscriptionServices Request

The QuerySubscriptionServices tag instructs the Subscription Service to query Subscription details. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SubscriptionNumber	Integer8	Indicates the unique system generated Subscription Number.	Mandatory
StatusFilter	String	Possible Values • ALL • ACTIVE The element determines whether all Subscription Services are returned or just those which are currently active.	Mandatory

Sample QuerySubscription Services Request

```

soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/" xmlns:de-
f="http://mdsuk.com/ws/dise3g/services/definition">
<soapenv:Header/>
  <soapenv:Body>
<def:QuerySubscriptionServices>
<def:Request>
<!--You may enter the following 3 items in any order-->
<!--Optional:-->
<ExternalReference>abc</ExternalReference>
<SubscriptionNumber>10907447</SubscriptionNumber>
<StatusFilter>ALL</StatusFilter>
</def:Request>
</def:QuerySubscriptionServices>
  </soapenv:Body>
</soapenv:Envelope>

```

2.15.3.2 QuerySubscriptionServices Response

The QuerySubscriptionServices response is the response to the [QuerySubscriptionServices Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
SubscriptionServices	Container	Contains a list of zero or more Subscription Service elements. See QuerySubscriptionServices Response Container for details.	Mandatory
QueryLimitExceeded	Boolean	Set to True if the maximum number of records that may be returned as defined in the configuration, was exceeded	Mandatory

SubscriptionServices Response Container

The SubscriptionServices response container has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionService	Container	See SubscriptionService response container for details	Optional

SubscriptionService Response Container

The SubscriptionService response container has the following elements:

Element Name	Content Type	Description	Required?
ServiceCode	String6	Unique ID for the Service.	Mandatory
EffectiveDate	Date	YYYY-MM-DD	Mandatory
ExpiryDate	Date	YYYY-MM-DD	Optional
ServiceDescription	String30	A description of the Service linked to the Subscription.	Optional
Price	Decimal (9,2)	Price at which the Service is charged.	Optional
NominalCode	String30	The Nominal Code to which the Subscription Service is charged.	Optional
InvoiceThisService	Boolean	Set to True if the Subscription Service is eligible for invoicing.	Optional
LongDescription	String120	This details a longer descriptive text attributed to the Service (120-characters).	Optional
PackageCode	String6	Unique ID for the Package used to add the Subscription Service.	Optional
PricePeriodCoverage	Container	See PricePeriodCoverage Response Container for details.	Optional
SalesAccountNumber	Integer8	Sales Account Number of the sales-person who introduced the customer to the Service.	Optional
BillingOffset	Integer2	The period by which Service is billed in advance.	Optional
AddingEvent	Integer9	Account Services can be added by Workflow Events. This element contains the ID of the Workflow Event that added this Service.	Optional
NetworkConfirmed	Boolean	Set to True if the Subscription Service request has been confirmed at Network level.	Optional
Migrated	Boolean	Set to True if the Subscription has been migrated between tariffs.	Optional
PerBill	Boolean	Set to True if the Service is charged on each bill.	Optional

Element Name	Content Type	Description	Required?
		Set to False for a one-off payment.	
BilledUntil	Date	YYYY-MM-DD The last date on which the customer was billed for the Service.	Optional
ServiceBarred	Boolean	Set to True if the Service is barred.	Optional
RecurringCharge	Boolean	Set to True if a recurring Service Charge is to be applied to the Account.	Optional
ContractService	Boolean	The value to be retrieved from the Service Code set up.	Optional
ContractDuration	Integer3	The value to be retrieved from the Service Code set up.	Optional
ContractReference	String12	A 12-character reference ID that can be assigned to the service contract. This field is displayed for Contract Services only.	Optional
SuppressRemaining ContractCharge	Boolean	This is a Yes/No option which is used by Invoice Production to determine whether or not to apply the Contract Expiry Charge to the subscriber as part of generating the invoice.	Optional
PriceConsolidationService	String6	This indicates the name of the Discount Consolidated Service applied to the selected Subscription Service in CMP disEMP Back Office.	Optional
LastAmendedDate	Date	YYYY-MM-DD	Optional

PricePeriodCoverage Response Container

The PricePeriodCoverage response container has the following elements:

Element Name	Content Type	Description	Required?
CoverageType	String	Enumeration: • Days • Months	Mandatory
CoverageValue	Integer3	The value of the coverage during the selected period.	Mandatory

Sample QuerySubscriptionServices Response

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <ns2:QuerySubscriptionServicesResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/services/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/workflow/definition"
xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
      <ns2:Result>
        <SubscriptionServices>
          <SubscriptionService>
            <ServiceCode>FOCIB</ServiceCode>
            <EffectiveDate>2014-09-25Z</EffectiveDate>
            <ExpiryDate>1899-01-01Z</ExpiryDate>
            <ServiceDescription>Free Itemised Billing</ServiceDescription>
            <Price>0.00</Price>
            <NominalCode>010058.4061</NominalCode>
            <InvoiceThisService>true</InvoiceThisService>
            <LongDescription/>
            <PackageCode>A&LMBX</PackageCode>
            <BillingOffset>0</BillingOffset>
            <AddingEvent>0</AddingEvent>
            <NetworkConfirmed>true</NetworkConfirmed>
            <Migrated>>false</Migrated>
            <PerBill>>false</PerBill>
            <BilledUntil>2014-09-25Z</BilledUntil>
            <ServiceBarred>>false</ServiceBarred>
            <RecurringCharge>true</RecurringCharge>
            <ContractService>>false</ContractService>
            <PriceConsolidationService/>
            <LastAmendedDate>2014-09-25T10:52:22Z</LastAmendedDate>
          </SubscriptionService>
          <SubscriptionService>
            <ServiceCode>JINS11</ServiceCode>
            <EffectiveDate>2014-09-25Z</EffectiveDate>

```

```
<ExpiryDate>1899-01-01Z</ExpiryDate>
<ServiceDescription>Insurance</ServiceDescription>
<Price>2.50</Price>
<NominalCode>999999.4201</NominalCode>
<InvoiceThisService>true</InvoiceThisService>
<LongDescription/>
<PackageCode>A&LMBX</PackageCode>
<PricePeriodCoverage>
  <CoverageType>MONTHS</CoverageType>
  <CoverageValue>1</CoverageValue>
</PricePeriodCoverage>
<BillingOffset>1</BillingOffset>
<AddingEvent>0</AddingEvent>
<NetworkConfirmed>true</NetworkConfirmed>
<Migrated>>false</Migrated>
<PerBill>>false</PerBill>
<BilledUntil>2014-10-24Z</BilledUntil>
<ServiceBarred>>false</ServiceBarred>
<RecurringCharge>true</RecurringCharge>
<ContractService>>false</ContractService>
<PriceConsolidationService>JINS1</PriceConsolidationService>
<LastAmendedDate>2014-09-25T10:52:22Z</LastAmendedDate>
</SubscriptionService>
<SubscriptionService>
  <ServiceCode>JINS2</ServiceCode>
  <EffectiveDate>2014-09-25Z</EffectiveDate>
  <ExpiryDate>1899-01-01Z</ExpiryDate>
  <ServiceDescription>Insurance</ServiceDescription>
  <Price>1.50</Price>
  <NominalCode>999999.4201</NominalCode>
  <InvoiceThisService>true</InvoiceThisService>
  <LongDescription/>
  <PackageCode>A&LMBX</PackageCode>
  <PricePeriodCoverage>
    <CoverageType>MONTHS</CoverageType>
    <CoverageValue>1</CoverageValue>
  </PricePeriodCoverage>
  <BillingOffset>1</BillingOffset>
  <AddingEvent>0</AddingEvent>
  <NetworkConfirmed>true</NetworkConfirmed>
  <Migrated>>false</Migrated>
  <PerBill>>false</PerBill>
  <BilledUntil>2014-10-24Z</BilledUntil>
  <ServiceBarred>>false</ServiceBarred>
  <RecurringCharge>true</RecurringCharge>
```

```
<ContractService>false</ContractService>
<PriceConsolidationService>JINS4</PriceConsolidationService>
<LastAmendedDate>2014-09-25T10:52:22Z</LastAmendedDate>
</SubscriptionService>
<SubscriptionService>
<ServiceCode>JINS3</ServiceCode>
<EffectiveDate>2014-09-25Z</EffectiveDate>
<ExpiryDate>1899-01-01Z</ExpiryDate>
<ServiceDescription>Insurance</ServiceDescription>
<Price>1.99</Price>
<NominalCode>999999.4201</NominalCode>
<InvoiceThisService>true</InvoiceThisService>
<LongDescription/>
<PackageCode>A&LMBX</PackageCode>
<PricePeriodCoverage>
<CoverageType>MONTHS</CoverageType>
<CoverageValue>1</CoverageValue>
</PricePeriodCoverage>
<BillingOffset>1</BillingOffset>
<AddingEvent>0</AddingEvent>
<NetworkConfirmed>true</NetworkConfirmed>
<Migrated>false</Migrated>
<PerBill>false</PerBill>
<BilledUntil>2014-10-24Z</BilledUntil>
<ServiceBarred>false</ServiceBarred>
<RecurringCharge>true</RecurringCharge>
<ContractService>false</ContractService>
<PriceConsolidationService>JINS4</PriceConsolidationService>
<LastAmendedDate>2014-09-25T10:52:22Z</LastAmendedDate>
</SubscriptionService>
<SubscriptionService>
<ServiceCode>JINS5</ServiceCode>
<EffectiveDate>2014-09-25Z</EffectiveDate>
<ExpiryDate>1899-01-01Z</ExpiryDate>
<ServiceDescription>Insurance</ServiceDescription>
<Price>5.07</Price>
<NominalCode>999999.4201</NominalCode>
<InvoiceThisService>true</InvoiceThisService>
<LongDescription/>
<PackageCode>A&LMBX</PackageCode>
<PricePeriodCoverage>
<CoverageType>MONTHS</CoverageType>
<CoverageValue>1</CoverageValue>
</PricePeriodCoverage>
<BillingOffset>1</BillingOffset>
```

```
<AddingEvent>0</AddingEvent>
<NetworkConfirmed>true</NetworkConfirmed>
<Migrated>false</Migrated>
<PerBill>false</PerBill>
<BilledUntil>2014-10-24Z</BilledUntil>
<ServiceBarred>false</ServiceBarred>
<RecurringCharge>true</RecurringCharge>
<ContractService>false</ContractService>
<PriceConsolidationService>JINS4</PriceConsolidationService>
<LastAmendedDate>2014-09-25T10:52:22Z</LastAmendedDate>
</SubscriptionService>
<SubscriptionService>
<ServiceCode>JINS6</ServiceCode>
<EffectiveDate>2014-09-25Z</EffectiveDate>
<ExpiryDate>1899-01-01Z</ExpiryDate>
<ServiceDescription>Insurance</ServiceDescription>
<Price>5.15</Price>
<NominalCode>999999.4201</NominalCode>
<InvoiceThisService>true</InvoiceThisService>
<LongDescription/>
<PackageCode>A&LMBX</PackageCode>
<PricePeriodCoverage>
<CoverageType>MONTHS</CoverageType>
<CoverageValue>1</CoverageValue>
</PricePeriodCoverage>
<BillingOffset>1</BillingOffset>
<AddingEvent>0</AddingEvent>
<NetworkConfirmed>true</NetworkConfirmed>
<Migrated>false</Migrated>
<PerBill>false</PerBill>
<BilledUntil>2014-10-24Z</BilledUntil>
<ServiceBarred>false</ServiceBarred>
<RecurringCharge>true</RecurringCharge>
<ContractService>false</ContractService>
<PriceConsolidationService>JINS4</PriceConsolidationService>
<LastAmendedDate>2014-09-25T10:52:22Z</LastAmendedDate>
</SubscriptionService>
<SubscriptionService>
<ServiceCode>LINECH</ServiceCode>
<EffectiveDate>2014-09-25Z</EffectiveDate>
<ExpiryDate>1899-01-01Z</ExpiryDate>
<ServiceDescription>*AMENDED* LINE RENTAL CHARGE</ServiceDescription>
<Price>7.00</Price>
<NominalCode>010058.4051</NominalCode>
```

```

<InvoiceThisService>true</InvoiceThisService>
<LongDescription/>
<PackageCode>A&LMBX</PackageCode>
<PricePeriodCoverage>
<CoverageType>MONTHS</CoverageType>
<CoverageValue>1</CoverageValue>
</PricePeriodCoverage>
<BillingOffset>1</BillingOffset>
<AddingEvent>0</AddingEvent>
<NetworkConfirmed>true</NetworkConfirmed>
<Migrated>false</Migrated>
<PerBill>false</PerBill>
<BilledUntil>2014-10-24Z</BilledUntil>
<ServiceBarred>false</ServiceBarred>
<RecurringCharge>true</RecurringCharge>
<ContractService>false</ContractService>
<PriceConsolidationService/>
<LastAmendedDate>2014-09-25T10:52:22Z</LastAmendedDate>
</SubscriptionService>
</SubscriptionServices>
<QueryLimitExceeded>false</QueryLimitExceeded>
</ns2:Result>
</ns2:QuerySubscriptionServicesResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

2. 15. 4UpdateService

The UpdateService web service enables an external client system to update either Subscription Service Details for a given Subscription Number, or Agreement Service Details for a given Agreement Number.

This service should be used in conjunction with the Service subset of the [Query Subscription Details](#) or [Query Agreement Details](#) services.

The user must pass in a valid CMP Subscription Number (or Agreement Number), Service Code and Effective Date in order to update the Service Details.

Invalid requests are rejected with an error message.

2.15.4.1 UpdateService Request

The UpdateService tag instructs the Services Service to update service details. This request contains the following elements:

Element Name	Content Type	Description	Required?
UpdateServiceData	Container	See Update Service Data Request Container for details.	Mandatory

UpdateServiceData Request Container

The UpdateServiceData request container has the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
CustomerLevel	String	Valid values are: - SUBSCRIPTION - ACCOUNT	Mandatory
CustomerLevelReference	String8	Include Subscription Number, Account Number or Agreement Number, depending on the customer level.	Mandatory
ServiceCode	String6	This details the code attributed to the Service as it appears on the invoice (for example, LINECH).	Mandatory
EffectiveDate	date	YYYY-MM-DDZ	Mandatory
UpdateServiceBasic	Container	See Update Service Basic Request Container for details.	Optional
AuditRecord	Container	See AuditRecord Request Container for details.	Optional

UpdateServiceBasic Request Container

The UpdateServiceBasic request container has the following elements:

Element Name	Content Type	Description	Required?
ServicePrice	Currency (Decimal)	- Min Inclusive: 0.01 - Max Inclusive: 999999999.99	Optional
ExpiryDate	Date	YYYY-MM-DDZ Sets the expiry date of the service. Where the expiryDate is already set, this can be cleared if this is in the future by passing through the zero date 1899-01-01.	Optional
Description	String30	The description to be applied to the Subscription service record for the subscriber. - If this value is not supplied, the description is set to that from the Tariff Service File or Service Configuration (as per the current logic). - Where a description is supplied, the calling system can pass any value of less than 30 characters. The Description value should not be populated for agreement services. If supplied, the value will not be applied.	Optional
LongDescription	String120	This details a longer descriptive text attributed to the Service (120-characters).	Optional
SuppressRemainingCharge	Boolean	This is a Yes/No option which is used by Invoice Production to determine whether or not to apply the Contract Expiry Charge to the subscriber as part of generating the invoice.	Optional
ContractReference	String12	This is a Reference ID that can be assigned to the individual service contract.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The program name should be hard coded in the calling application to uniquely identify that application.	Mandatory

2.15.4.2 UpdateService Response

UpdateService response is the response to the [UpdateService Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2. 16 Structure Service

The information in this section corresponds to the CMP web services as specified in the structureservice.wsdl.

The following web services are included:

- [Query Agreement Structure](#)
- [Query Customer Structure](#)

2. 16. 1QueryAgreementStructure

The QueryAgreementStructure web service enables an external client system to retrieve a view of the customer's CMP structure associated with the Agreement submitted within the web service request, including the Group, Corporate(s), Account(s), and Subscription(s).

The user must pass in a valid CMP Agreement Number in order to retrieve the customer structure details associated with that Agreement. Identifiers are returned, but not the full details.

The maximum number of Subscriptions that are associated to the specified Agreement Number should not exceed a limit of 20 to avoid performance problems when dealing with larger structures.

A configurable limit is applied to limit the maximum number of nodes returned. If this limit is exceeded, no records are returned and the QueryLimitExceeded element is returned 'True' to notify the user that the query limit has been reached.

2.16.1.1 QueryAgreementStructure Request

The QueryAgreementStructure tag instructs the Structure Service to query the Agreement structure. This request contains the following elements:

Element Name	Content Type	Description	Required?
CustomerAgreementQueryData	Container	See CustomerAgreementQueryData request container for details.	Mandatory

CustomerAgreementQueryData Request Container

The CustomerAgreementQueryData request container has the following elements:

Element Name	Content Type	Description	Required?
External Reference	String69	The client may use this identifier to correlate the request and the response.	Optional
AgreementNumber	Integer8	The unique system generated reference number for the Agreement.	Mandatory

2.16.1.2 QueryAgreementStructure Response

The QueryAgreementStructure response is the response to the QueryAgreementStructure request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
QueryLimitExceeded	Integer8	CMP query web services can impose a configurable limit on the amount of data that can be returned by a query. If this limit is exceeded, 'True' is returned, otherwise 'False'.	Mandatory
CustomerLevel	String	The level in the customer structure the Agreement is logged. Valid values are: • Group • Corporate • Account • Subscription	Mandatory
CustomerNode	Container	Choice of: • Group • Corporate • Account See CustomerNode Response Container.	Mandatory

CustomerNode Response Container

The CustomerNode response container has the following elements:

Element Name	Content Type	Description	Required?
Group	Container	See Group response container for details.	Mandatory
Corporate	Container	See Corporate response container for details.	Mandatory
Account	Container	See Account response container for details.	Mandatory

Group Response Container

The Group response container has the following elements:

Element Name	Content Type	Description	Required?
GroupCode	String6	The Group to which the Corporate will be added. If not specified, the account will not be associated with any corporate.	Mandatory
GroupDescription	String60	This contains a full description of the Group.	Optional
Corporates	Container	Contains zero or more of Corporate response containers	Optional

Corporates Response Container

The Corporates response container has the following elements:

Element Name	Content Type	Description	Required?
Corporate	Container	See Corporate response container for details.	Mandatory

Corporate Response Container

The Corporate response container has the following elements:

Element Name	Content Type	Description	Required?
CorporateCode	String6	The Corporate to which the account will be added. If not specified, the Account will not be associated with any Corporate.	Mandatory
CorporateDescription	String30	This contains a full description of the Corporate.	Optional
PostingAccountNumber	Integer	This is returned to the user if the request is successful. The Posting Account can be changed from that created at Corporate creation.	Optional
Accounts	Container	Contains zero or more of the Account response container.	Optional

Accounts Response Container

The Accounts response container has the following elements:

Element Name	Content Type	Description	Required?
Account	Container	See Account response container for details.	Mandatory

Account Response Container

The Account response container has the following elements:

Element Name	Content Type	Description	Required?
AccountNumber	Integer8	The unique system generated reference number for the Account.	Mandatory
AccountName	String60	The name of the Account on which the order was raised.	Optional
Subscriptions	Container	Contains zero or more of Subscription. See Subscription response container for details.	Optional

Subscriptions Response Container

The Subscriptions response container has the following elements:

Element Name	Content Type	Description	Required?
Subscription	Container	See Subscription response container for details.	Mandatory

Subscription Response Container

The Subscription response container has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionNumber	Integer8	The unique system generated reference number for the Subscription.	Mandatory
SubscriptionUserName	String30	This displays a history of all user name changes for the associated Subscription.	Optional
ConnectedDate	Date	This displays a date on which the Subscription is connected. YYYY-MM-DDZ	Optional
DisconnectedDate	Date	This displays a date on which the Subscription is disconnected. YYYY-MM-DDZ	Optional
PrimarySerialNumber	String25	This contains the customer's primary serial number defaulted in from the Subscription record.	Optional
TariffCode	String6	Unique identifier code for the tariff. The Tariff is what determines the network that the Subscription will be added to. The network that a Subscription is going to go onto is what determines the following that are presented to the user in AgentView or are valid to populate via a Web Service.	Optional
CustomerCostCentre	String20	This is optional but if supplied it must be a valid one. The list of valid cost centres is defined against the agreement that was selected. This list can be viewed via AgentView in the "Cost Centres" tab.	Optional
NetworkCode	String6	Populated from the Network file. If a network is selected, only consider Subscriptions where the network code value on the Subscription file equals the value entered.	Optional
Terminated	Boolean	Indicates if the Termination Invoice has been produced.	Mandatory
LinkTargetReference	Container	Not currently used. Choice container to allow for future expansion.	Optional

2. 16. 2QueryCustomerStructure

The QueryCustomerStructure web service enables an external client system to retrieve a view of the Network Provider's CMP structure, including the Group, Corporate(s), Account(s) and Subscription(s).

The user must pass in a valid CMP entity code (for example: Group Code, Corporate Code, Account Number or Subscription Number) in order to retrieve the associated network provider's structure details, as held in the customer structure screen within AgentView. Identifiers are returned but not the full details.

Submitting invalid data in the request will result in an error message.

This query returns a subset of the details for the customer structure according to the customer level ID (Group Code, Corporate Code, Account Number or Subscription Number) and the type of filter specified in the request. It is possible to filter the data as follows:

2.16.2.1 Immediate Children

Immediate children only return the children nodes of the selected node.

- Group - returns associated Corporates.
- Corporate - returns associated Accounts.
- Account - returns associated Subscriptions.
- Subscription - returns nothing since there are no children.

2.16.2.2 All Dependents

All dependents return all nodes that are dependent on the selected node.

- Group - returns associated Corporates, child Accounts for the returned Corporates, and child Subscriptions for the returned Accounts.
- Corporate - returns associated Accounts, and child Subscriptions for the returned Accounts if it exists.
- Account - returns child Subscriptions if it exists.
- Subscription - returns nothing since there are no children.

2.16.2.3 Ancestor

Ancestor is the return path to the highest node in the tree.

- Group - returns nothing.
- Corporate - returns associated parent Group if it exists.
- Account - returns parent Corporate if it exists, and parent Group for the Corporate if it exists.
- Subscription - returns parent Account, the parent Corporate for the Account if it exists, and the parent Group for the Corporate if it exists.



A configurable limit is applied to limit the maximum number of nodes returned. If this limit is exceeded, no records are returned and the element QueryLimitExceeded is set to 'True' to notify the user that the query limit has been reached.

2.16.2.4 QueryCustomerStructure Request

The QueryCustomerStructure tag instructs the Structure Service to query the customer structure. This request contains the following elements:

Element Name	Content Type	Description	Required?
CustomerStructureQueryData	Container	See CustomerStructureQueryData request container for details.	Mandatory

CustomerStructureQueryData Request Container

The CustomerStructureQueryData request container has the following elements:

Element Name	Content Type	Description	Required?
External Reference	String69	The client may use this identifier to correlate the request and the response.	Optional
CustomerLevel	String	Valid values: - Group - Corporate - Account - Subscription	Mandatory
CustomerLevelId	String8	The identifier for the CustomerLevel specified i.e. Group Code, Corporate Code, Account Number or Subscription Number.	Mandatory
TreeFilter	String	Valid values: - ImmediateChildren - AllDependents - Ancestors If this element is not populated in the request, ImmediateChildren is used as default.	Optional
SubscriptionStatusFilter	String	Valid values: - ALL - ACTIVE	Optional

2.16.2.5 QueryCustomerStructure Response

QueryCustomerStructure response is the response to the QueryCustomerStructure request. This contains the following result elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
QueryLimitExceeded	Boolean	CMP query web services can impose a configurable limit on the amount of data that can be returned by a query.	Mandatory
CustomerLevel	String	Valid values: • Group • Corporate • Account • Subscription	Mandatory
CustomerNode	Container	Choice of: • Group • Corporate • Account See CustomerNode response container for details.	Optional

CustomerNode Response Container

The CustomerNode response container has the following elements:

Element Name	Content Type	Description	Required?
Group	Container	See Group response container for details.	Mandatory
Corporate	Container	See Corporate response container for details.	Mandatory
Account	Container	See Account response container for details.	Mandatory

Group Response Container

The Group response container has the following elements:

Element Name	Content Type	Description	Required?
GroupCode	String6	The Group to which the Corporate will be added. If not specified, the account will not be associated with any corporate.	Mandatory
GroupDescription	String60	This contains a full description of the Group.	Optional
Corporates	Container	Contains zero or more of Corporate response containers	Optional

Corporates Response Container

The Corporates response container has the following elements:

Element Name	Content Type	Description	Required?
Corporate	Container	See Corporate response container for details.	Mandatory

Corporate Response Container

The Corporate response container has the following elements:

Element Name	Content Type	Description	Required?
CorporateCode	String6	The Corporate to which the account will be added. If not specified, the Account will not be associated with any Corporate.	Mandatory
CorporateDescription	String30	This contains a full description of the Corporate.	Optional
PostingAccountNumber	Integer	This is returned to the user if the request is successful. The Posting Account can be changed from that created at Corporate creation.	Optional
Accounts	Container	Contains zero or more of the Account response container.	Optional

Accounts Response Container

The Accounts response container has the following elements:

Element Name	Content Type	Description	Required?
Account	Container	See Account response container for details.	Mandatory

Account Response Container

The Account response container has the following elements:

Element Name	Content Type	Description	Required?
AccountNumber	Integer8	The unique system generated reference number for the Account.	Mandatory
AccountName	String60	The name of the Account on which the order was raised.	Optional
Subscriptions	Container	Contains zero or more of Subscription. See Subscription response container for details.	Optional

Subscriptions Response Container

The Subscriptions response container has the following elements:

Element Name	Content Type	Description	Required?
Subscription	Container	See Subscription response container for details.	Mandatory

Subscription Response Container

The Subscription response container has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionNumber	Integer8	The unique system generated reference number for the Subscription.	Mandatory
SubscriptionUserName	String30	This displays a history of all user name changes for the associated Subscription.	Optional
ConnectedDate	Date	This displays a date on which the Subscription is connected. YYYY-MM-DDZ	Optional
DisconnectedDate	Date	This displays a date on which the Subscription is disconnected. YYYY-MM-DDZ	Optional
PrimarySerialNumber	String25	This contains the customer's primary serial number defaulted in from the Subscription record.	Optional
TariffCode	String6	Unique identifier code for the tariff. The Tariff is what determines the network that the Subscription will be added to. The network that a Subscription is going to go onto is what determines the following that are presented to the user in AgentView or are valid to populate via a Web Service.	Optional
CustomerCostCentre	String20	This is optional but if supplied it must be a valid one. The list of valid cost centres is defined against the agreement that was selected. This list can be viewed via AgentView in the "Cost Centres" tab.	Optional
NetworkCode	String6	Populated from the Network file. If a network is selected, only consider Subscriptions where the network code value on the Subscription file equals the value entered.	Optional
Terminated	Boolean	Indicates if the Termination Invoice has been produced.	Mandatory
LinkTargetReference	Container	Not currently used. Choice container to allow for future expansion.	Optional

2. 17 Subscription Service

The information in this section corresponds to the CMP Toolbox web services as specified in the [subscriptionService.wsdl](#).

The following web services are included:

- [CreateSubscription](#)
- [LinkSubscriptions](#)
- [QuerySubscription](#)
- [RevertLastUpgrade](#)
- [UpdateSubscription](#)
- [UpdateSubscriptionSerialNumbers](#)
- [UpdateTariff](#)

2. 17. 1 CreateSubscription

The CreateSubscription web service enables an external client system to create a Subscription within CMP and attach it to an existing CMP Account Number. It differs from the CreateOrder request in that CreateSubscription has no hardware order associated with it. It is used to create (and connect) the Subscription with the assumption that the Subscriber already has the necessary hardware.

The request includes information such as:

- Account Number of the Account to which the Subscription will be added.
- Codes such as the Agreement, Price Plan, Tariff, Package.
- A list of Serial Numbers.
- Connection details.
- Address.
- Contract information.

The user must pass in a valid CMP Account Number along with additional Subscriber values such as a valid CMP Tariff Code values, and a valid CMP Company Number.

Standard CMP rules associated with creating a Subscription, govern which values are mandatory or optional for the request.

If an Agreement Number is not supplied and there is no existing Agreement on the Account then the Agreement is created automatically. This Agreement will be the equivalent of creating an Agreement via the CreateAgreement web service and just passing in the Account Number.

The web service returns a response containing the newly created Subscription number.

Submitting invalid data in the request will result in an error message.

2.17.1.1 CreateSubscription Request

The CreateSubscription tag instructs the Subscription Service to create a Subscription. This tag contains the following elements:

Element Name	Content Type	Description	Required?
CreationData	Container	A container tag for the Subscription information. See CreationData Request Container for details	Mandatory

CreationData Request Container

The CreationData request container has the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
AccountIdentifier	Integer8	Identifier for the Account to which the order is to be added.	Mandatory
SubscriptionData	Container	Container for Subscription information. See SubscriptionData Request Container for details.	Mandatory

SubscriptionData Request Container

The SubscriptionData request container has the following elements:

Element Name	Content Type	Description	Required?
AgreementNumber	Integer8	If no existing Agreement Number is supplied and there is an available one in the hierarchy then it will be used. If there is no available Agreement then a new one will be created. If there is more than one Agreement available and no Agreement Number is supplied then an error is thrown.	Optional
EnquirySource	String6	An Enquiry Source can be configured to default in a Campaign, Price Plan and Tariff. In this scenario, the tariff is optional, otherwise its mandatory.	Optional
CampaignNumber	String9	This is mandatory if you have supplied an Enquiry Source, otherwise its optional. A Campaign links an Enquiry Source to a Price Plan.	Optional
PricePlan	String6	A Price Plan can be configured to default in a Package, Tariff and Connection Type in AgentView. With CMP web services the Connection Type must always be supplied irrespective of the default. Web services will default in the Tariff and Package. This element is deprecated, and any values supplied in the request will be ignored.	Optional
TariffCode	String6	In the WSDL as mandatory, the Tariff can also be optional if defaulted in from an Enquiry Source or Price Plan. The Tariff is what determines the network that the Subscription will be added to. The network that a Subscription is going to go onto is what determines the following that are presented to the user in AgentView or are valid to populate via a web service. The following are determined by the network that the Subscription is on: • Managed Serial Number • Non Managed Serial Numbers • Network Sub Codes	Mandatory

Element Name	Content Type	Description	Required?
		 This element is deprecated, and any values supplied in the request will be ignored.	
PackageCode	String6	A Package lists a number of Services. When specifying a Package, you are in effect specifying the Services to be added to the Subscription after creation. A default Package can be set up against either a Price Plan or against a Tariff. Therefore if no Package is supplied, then the default that is specified against either of these is used instead. The Package Code must be valid for the Tariff that has been selected.  This element is deprecated, and any values supplied in the request will be ignored.	Optional
IgnoreDefaultPackage	Boolean	In AgentView it is possible to clear out a default Package. To achieve this via web services, "true" must be specified. If not, the default value is "false".	Optional
SalesAccountCode	Integer8	A Sales Account Code maps to a sales person. A sales person may have certain serial numbers allocated against them. In this scenario, if a sales account is supplied, this may restrict the list of managed serial numbers that are available to enter. To allocate serial numbers against a sales account, serial number management must be switched on for a the serial number in question.	Optional*
SalespersonIdentifier	Integer8	An identity number for a salesperson.	Optional*
UserName	String30	This displays a history of all user name changes for the associated Subscription.	Optional

Element Name	Content Type	Description	Required?
CustomerCostCentre	String20	This is optional but if supplied it must be a valid one. The list of valid Cost Centres is defined against the Agreement that was selected.	Optional
CustomerReference	String60	Reference number given to the customer when the order is placed.	Optional
SubPassword	String10	Details the Subscription level password of the customer.	Optional
DirectoryListingAllowed	Boolean	This includes or excludes the Subscription from internal directory listing.	Optional
ManagedSerialNumbers	Container	A Container for one or more Managed Serial Numbers. See ManagedSerialNumbers Request Container for details. CMP back office configuration defines if Managed Serial Numbers are optional or mandatory, including validation rules that apply to each Managed Serial Number.	Mandatory
NonManagedSerial Numbers	Container	A Container for one or more Non-Managed Serial Numbers. See NonManagedSerialNumbers Request Container for details. CMP back office configuration defines if Non-Managed Serial Numbers are optional or mandatory, including validation rules that apply to each Non-Managed Serial Number.	Optional
NetworkSubCodes	Container	A Container for one or more Network Sub Codes. See NetworkSubCodes Request Container for details. There are 2 network sub codes. CMP back office configuration defines if Network Sub Codes are optional or mandatory, including validation rules that apply to each.	Optional
ConnectionDetails	Container	See ConnectionDetails Request Container for details.	Mandatory

Element Name	Content Type	Description	Required?
Address	Container	Choice of: • PersonalAddress • BusinessAddress If address details are supplied then a new address is created with those details and associated to the Subscription. If no address is supplied then the address of the Account is used. See Address Request Container for details.	Optional
Contract	Container	See Contract Request Container for details.	Optional
EmailData	Container	See EmailData Request Container for details.	Optional
AttributeGroup	Container	See AttributeGroup Request Container for details.	Optional
DonorLedPortDetails	Container	See DonorLedPortDetails Request Container for details.	Optional
ParentSubscription	Boolean	Defines whether the Subscription being created is a parent. Only one Subscription can be designated as a parent on a particular Account. However, an Account can exist without a parent Subscription.	Optional
OverrideMaxSubscriptions	Boolean	If set to false, the ID number provided is checked against the number of subscriptions with which it is already associated. If the ID number is not provided, the default is false. If set to true, this check is ignored. This check can only be performed if the identity is not set to Disallowed.	Optional

*If both these fields are populated, they must be a valid combination, that is they are for the same person and exist on the Sales Force table.

ManagedSerialNumbers Request Container

The ManagedSerialNumbers request container has the following elements:

Element Name	Content Type	Description	Required?
ManagedSerialNumber	Container	See ManagedSerialNumber request container for details.	Optional

ManagedSerialNumber Request Container

The ManagedSerialNumber request container has the following elements:

Element Name	Content Type	Description	Required?
EnumerationId	Range 1-5	The EnumerationId refers to the Managed Serial Number ID. Max number of 5.	Mandatory
NetworkSerialNumber	String25	Network Serial Number associated with CMP Subscription Number. This field is configurable depending on customer business requirements.	Mandatory

NonManagedSerialNumber Request Container

The NonManagedSerialNumbers request container has the following elements:

Element Name	Content Type	Description	Required?
NonManagedSerialNumber	Container	See NonManagedSerialNumber request container for details.	Optional

NonManagedSerialNumber Request Container

The NonManagedSerialNumber request container has the following elements:

Element Name	Content Type	Description	Required?
EnumerationID	Range1-9	The EnumerationId refers to the Non-Managed Serial Number number ID. Max number of 9.	Mandatory
NonManagedSerialNumber	String25	This contains a configurable non-managed serial number (e.g. PUK Number, PIN Number etc.).	Mandatory

NetworkSubCodes Request Container

The NetworkSubCodes request container has the following elements:

Element Name	Content Type	Description	Required?
NetworkSubCode	Container	See NetworkSubCode request container for details.	Optional

NetworkSubCode Request Container

The NetworkSubCode request container has the following elements:

Element Name	Content Type	Description	Required?
EnumerationID	Range1-2	The EnumerationId refers to the Network Sub Code ID. Max number of 2.	Mandatory
NetworkSubCode	String25	This contains an extra code or serial number associated with the network code. This field is completely configurable depending on customer business requirements.	Mandatory

ConnectionDetails Request Container

The ConnectionDetails request container has the following elements:

Element Name	Content Type	Description	Required?
ConnectionType	String4	The CMP configured Connection Type connecting the Subscription to the network.	Optional
ConnectionDate	Date	The date on which the connection will be processed. YYYY-MM-DD-Z.	Optional
ConnectionReason	String4	The CMP configured Connection Reason explaining the connection.	Mandatory
ConnectionTime	Time	The time at which the connection will be processed. HH:MM:SS.	Optional
HoldActivation	Boolean	Defaults to 'false'. When set to 'true', the Subscription activation is held until actioned in AgentView or via the ActivateSubscription web service. If the 'HoldActivation' is set to 'true' the connection date and time are Optional. If these two fields are populated in this scenario, they will be ignored.	Optional

Address Request Container

The Address request container has the following elements:

Element Name	Content Type	Description	Required?
PersonalAddress	Container	See PersonalAddress Request Container for details.	Optional
BusinessAddress	Container	See BusinessAddress Request Container for details.	Optional



Only one type of address container can be specified in a request. If both are supplied, an error is returned.

PersonalAddress Request Container

The PersonalAddress request container has the following elements:

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Mandatory
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD. The user can also clear the current date of birth set by specifying CLEAR_FIELD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Separated or BLANK.	Optional
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the available	Optional

Element Name	Content Type	Description	Required?
		Customer Types configured in CMP.	
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Request Container

The BusinessAddress request container has the following elements:

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Mandatory
Address3	String40	Line three of the company's address.	Mandatory
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides. Configurable CMP list.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional
DateOfIncorporation	Date	The date the company register at the address specified, in the format YYYY-MM-DD.	Optional

Element Name	Content Type	Description	Required?
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact surname name.	Optional
JobTitle	String30	Company's contact job title.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

Contract Request Container

The Contract request container has the following details:

Element Name	Content Type	Description	Required?
ContractNumber	String12	If not supplied, the contact number defaults in the Agreement Number.	Optional
ContractTerm	Integer3	If a contract term is supplied it must be greater than 0. If not supplied, the value is defaulted from the Agreement.	Optional
ContractStartedOn	Date	If not supplied, the current date will be defaulted. YYYY-MM-DD.	Mandatory

EmailData Request Container

The EmailData request container holds details of email data. It has the following elements:

Element Name	Content Type	Description	Required?
EmailType	String6	The types and the default Email Type can be defined via set up. The Email Type supplied must be a valid Email Type as defined via set up. Typical values are HOME, WORK etc. but these are configurable.	Mandatory
EmailDescription	String70	The actual e-mail address. Only e-mail addresses with a valid format are accepted.	Mandatory

Attribute Request Container

The Attribute request container has the following elements:

Element Name	Content Type	Description	Required?
AttributeGroupId	String6	A unique ID for the Attribute Group. For example, 03A. Each account can have only a single effective Attribute Group at any one time.	Mandatory
Attribute	Container	Zero or more repetitions. See Attribute request container for details.	Optional

Attribute Request Container

The Attribute request container holds details of one particular Attribute:

Element Name	Content Type	Description	Required?
AttributeId	Decimal2	A unique Id for the Attribute. For example, 01. This is chosen from a list of Attributes configured against the chosen Attribute Group in CMP Back Office configuration.	Mandatory
AttributeValue	String120	A full description of the Attribute. For example, Dedicated Lease Line Connection.	Optional

DonorLedPortDetails Request Container

The DonorLedPortDetails request container has the following elements:

Element Name	Content Type	Description	Required?
PacCode	String9	PAC (Porting Authorisation Code).	Mandatory
PortDate	date	If the UseSuggestedDateOnConflict is False then Syniverse will reject this date if its not a valid port date.	Mandatory
UseSuggestedDateOnConflict	Boolean	If this is supplied set to True, Syniverse will send back the next available port date if the PortDate above is not available for porting e.g. Bank Holiday, Weekend etc. The actual PortDate will be set on the response.	Optional

PaymentDetails Request Container

The PaymentDetails request container has the following elements:

Element Name	Content Type	Description	Required?
TransactionReference	String20	A specific transaction reference may be entered here, however CMP generates a unique transaction reference. It is recommended that this field is not populated unless otherwise advised.	Optional
PaymentReference	String40	A unique transaction identifier, used by the client application to reference the payment.	Optional
CardReference	String30	A unique reference provided by the payment provider (e.g. Verifone, Chase Paymentech, Datacash etc.). This reference is a PCI compliant mechanism of referring to the payment card.	Optional
TransactionDateTime	DateTime	Transaction date/time. Defaults to current date/time.	Mandatory
CurrencyCode	String	ISO 4217 Currency code (e.g. GBP, EUR, USD).	Mandatory
PaymentType	String6	The method the payment is being made.	Mandatory
CardNumber	String20	The final 4 digits of the number of the credit card used to make the payment.	Optional
StartDate	Container	See StartDate request container for details.	Optional
ExpiryDate	Container	See EndDate request container for details.	Optional
NameOnCard	String20	Cardholder's name	Optional
AVSHouseStreetNumber	String25	The cardholder's address	Optional
PostCode	String19	The cardholder's post code	Optional
CountryCode	String2	The number code for the country where the payment cardholder resides	Optional
ReasonCode	String4	The reason why the payment is being taken.	Optional

Element Name	Content Type	Description	Required?
ProductService	String30	Captures a descriptions of what the payment was for.	Optional
AuthorisationCode	String16	Obtained by the client application from the Payment Provider to indicate the payment was approved.	Optional

StartDate Request Container

The StartDate request container has the following elements:

Element Name	Content Type	Description	Required?
Month	String6	Valid Month Start Date on the card. MM	Mandatory
Year	Integer2	Valid Year Start Date on the card. YY	Mandatory

EndDate Request Container

The ExpiryDate request container has the following elements:

Element Name	Content Type	Description	Required?
Month	String6	Valid Month Start Date on the card. MM	Mandatory
Year	Integer2	Valid Year Start Date on the card. YY	Mandatory

Sample CreateSubscription Request

```
<soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/" xmlns:de-
f="http://mdsuk.com/ws/dise3g/subscription/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:CreateSubscription>
      <def:CreationData>
        <!--You may enter the following 3 items in any order-->
        <!--Optional:-->
        <ExternalReference>REQ3</ExternalReference>
        <AccountIdentifier>10</AccountIdentifier>
```

```
<SubscriptionData>
<!--You may enter the following 25 items in any order-->
<TariffCode>TEST</TariffCode>
<!--Optional:-->
<PackageCode>MRC</PackageCode>
<SubPassword>4587</SubPassword>
<ManagedSerialNumbers>
<!--0 to 5 repetitions:-->
<ManagedSerialNumber>
<EnumerationId>1</EnumerationId>
<NetworkSerialNumber>0711111111</NetworkSerialNumber>
</ManagedSerialNumber>
<ManagedSerialNumber>
<EnumerationId>2</EnumerationId>
<NetworkSerialNumber>8944639875053791234</NetworkSerialNumber>
</ManagedSerialNumber>
<ManagedSerialNumber>
<EnumerationId>3</EnumerationId>
<NetworkSerialNumber>789456123789456</NetworkSerialNumber>
</ManagedSerialNumber>
</ManagedSerialNumbers>
<!--Optional:-->
<NonManagedSerialNumbers>
<!--0 to 9 repetitions:-->
<NonManagedSerialNumber>
<EnumerationId>4</EnumerationId>
<NonManagedSerialNumber>CONNREF</NonManagedSerialNumber>
</NonManagedSerialNumber>
</NonManagedSerialNumbers>
<!--Optional:-->
<ConnectionDetails>
<!--You may enter the following 5 items in any order-->
<ConnectionType>CONN</ConnectionType>
<!--Optional:-->
<ConnectionDate>2014-09-19</ConnectionDate>
<ConnectionReason>CR</ConnectionReason>
<!--Optional:-->
<HoldActivation>false</HoldActivation>
</ConnectionDetails>
<!--Optional:-->
<OverrideMaxSubscriptions>false</OverrideMaxSubscriptions>
<Contract>
<!--You may enter the following 3 items in any order-->
<ContractNumber>123456789</ContractNumber>
<ContractTerm>24</ContractTerm>
```

```
<ContractStartedOn>2014-09-19</ContractStartedOn>
</Contract>
<!--Optional:-->
<EmailData>
<!--You may enter the following 2 items in any order-->
<EmailType>HOME</EmailType>
<EmailDescription>joe.bloggs@mdscem.com</EmailDescription>
</EmailData>
<!--Optional:-->
<AttributeGroup>
<AttributeGroupId>SUBS</AttributeGroupId>
<!--Zero or more repetitions:-->
<Attribute>
<AttributeId>1</AttributeId>
<!--Optional:-->
<AttributeValue>False</AttributeValue>
</Attribute>
<Attribute>
<AttributeId>2</AttributeId>
<!--Optional:-->
<AttributeValue>BRANCHID1</AttributeValue>
</Attribute>
<Attribute>
<AttributeId>3</AttributeId>
<!--Optional:-->
<AttributeValue>HANDSET1</AttributeValue>
</Attribute>
<Attribute>
<AttributeId>4</AttributeId>
<!--Optional:-->
<AttributeValue>HANDSET DESCRIPTION</AttributeValue>
</Attribute>
<Attribute>
<AttributeId>5</AttributeId>
<!--Optional:-->
<AttributeValue>PACKAGE CODE</AttributeValue>
</Attribute>
<Attribute>
<AttributeId>6</AttributeId>
<!--Optional:-->
<AttributeValue>PACKAGE DESCRIPTION</AttributeValue>
</Attribute>
<Attribute>
<AttributeId>7</AttributeId>
<!--Optional:-->
```

```

<AttributeValue>Yes</AttributeValue>
</Attribute>
<Attribute>
<AttributeId>8</AttributeId>
<!--Optional:-->
<AttributeValue>Channel 123</AttributeValue>
</Attribute>
</AttributeGroup>
<!--Optional:-->
</SubscriptionData>
</def:CreationData>
</def>CreateSubscription>
  </soapenv:Body>
</soapenv:Envelope>

```

2.17.1.2 CreateSubscription Response

The CreateSubscription response is the response to the [CreateSubscription Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
SubscriptionIdentifier	Integer8	Identifies the unique Subscription ID of the Subscription created.	Mandatory
PortDate	date	The date on which the number was ported in.	Optional

Sample CreateSubscription Response

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <ns2:CreateSubscriptionResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/subscription/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/workflow/definition"
xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
      <ns2:Result>
        <ExternalReference>REQ3</ExternalReference>
        <SubscriptionIdentifier>2</SubscriptionIdentifier>
      </ns2:Result>
    </ns2:CreateSubscriptionResponse>
  </soapenv:Body>
</soapenv:Envelope>

```



```
</soapenv:Body>
</soapenv:Envelope>
```

2. 17. 2LinkSubscriptions

The LinkSubscriptions web service enables an external client system to link Subscriptions in a Parent-Child relationship to another Subscription (Link Target) in the same Account.

2.17.2.1 LinkSubscriptions Request

The LinkSubscriptions tag instructs the Subscription Service to link Subscriptions to the Link Target identified, according to the relationship identified by the Subscription Link Type. This tag contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SubscriptionLinkType	String	Only valid one currently available in the system is Parent-Child.	Mandatory
LinkTargetReference	Container - Choice	Contains one element: SubscriptionNumber, integer8, used to identify the Subscription.	Mandatory
LinkedSubscriptions	Container	Repeating element content type. Each occurrence of it identifies a Subscription Number to be linked. SubscriptionNumber, integer8, used to identify the Subscription to be linked.	Mandatory

2.17.2.2 LinkSubscriptions Response

The LinkSubscriptions response is the response to the [LinkSubscriptions Request](#). This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2. 17. 3QuerySubscription

The QuerySubscription web service enables an external client system to query a Subscription and retrieve Subscription Summary details for any existing CMP Subscription.

The user must pass in a valid CMP Subscription Number, or Primary Serial Number, (for example, mobile number) in order to retrieve the associated Subscription details.

The client can pass in one of more datasets to retrieve a specific subset of information. For example:

- Address
- Bars
- Serial Numbers
- Discounts
- Services
- Billing Media
- Contract and Sales
- Customer Details
- Usage and Credit Control

Submitting invalid data in the request will result in an error message. When calling the web service, the derived data (such as the balance) and the description fields are not returned. Only the associated codes are returned.

2.17.3.1 QuerySubscription Request

The QuerySubscription tag instructs the Subscription Service to query a Subscription. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SubscriptionQueryData	Container	Choice of: - SubscriptionNumber (Integer8) - PrimarySerialNumber, e.g. Mobile Number (String25)	Mandatory
Datasets	Container	Contains one or more Subscription Dataset (s): - ACTIVE_AND_PENDING_SERVICES - ADDRESS - ATTRIBUTES - BASIC - BILLINGMEDIA - CONTRACTANDSALES - CUSTOMERDETAILS - DEFINITIONS - DISCOUNTS - FEATURES - PENDING_TARIFF_CHANGE - SERIALNUMBERS - SERVICES - SIM_PROFILE_INFORMATION - SUBSCRIPTIONBARS - TERMINATION_FEE - USAGEANDCREDITCONTROL	Mandatory

Sample QuerySubscription Request

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:def="http://mdsuk.com/ws/dise3g/subscription/definition">
  <soapenv:Header/>
  <soapenv:Body>
    <def:QuerySubscription>
      <def:Request>
        <!--You may enter the following 3 items in any order-->
        <!--Optional:-->
        <ExternalReference>?</ExternalReference>
        <SubscriptionQueryData>
          <!--You have a CHOICE of the next 2 items at this level-->
          <SubscriptionNumber>6173524</SubscriptionNumber>
          <!--<PrimarySerialNumber>?</PrimarySerialNumber>-->
        </SubscriptionQueryData>
      </def:Request>
    </def:QuerySubscription>
  </soapenv:Body>
</soapenv:Envelope>

```

```
<Datasets>
<!--1 or more repetitions:-->
<Dataset>BASIC</Dataset>
<Dataset>ATTRIBUTES</Dataset>
<Dataset>CUSTOMERDETAILS</Dataset>
<Dataset>SERVICES</Dataset>
</Datasets>
</def:Request>
</def:QuerySubscription>
</soapenv:Body>
</soapenv:Envelope>
```

2.17.3.2 QuerySubscription Response

The QuerySubscription response is the response to the QuerySubscription Details Request. This contains the following Result elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
SubscriptionBasic	Container	From Basic Dataset in request. See SubscriptionBasic Response Container for details.	Optional
CustomerDetails	Container	From Customer Details Dataset in request. See CustomerDetails Response Container for details.	Optional
ContractAndSales	Container	From Contract and Sales Dataset in request. See ContractAndSales Response Container for details.	Optional
ManagedSerialNumber	Container	From Serial Numbers Dataset in request. A Container for one or more Managed Serial Numbers. See ManagedSerialNumbers Response Container for details.	Optional
NonManagedSerialNumbers	Container	From Serial Numbers Dataset in request. A Container for one or more Non-Managed Serial Numbers. See NonManagedSerialNumbers Response Container for details.	Optional
NetworkSubCodes	Container	From Serial Numbers Dataset in request. A Container for one or more Network Sub Codes. See NetworkSubCodes Response Container for details.	Optional
BillingMedia	Container	From Billing Media Dataset in request. See BillingMedia Response Container for details.	Optional

Element Name	Content Type	Description	Required?
UsageAndCreditControl	Container	From UsageAndCreditControl Dataset in request. See UsageAndCreditControl Response Container for details.	Optional
Discounts	Container	From Discounts Dataset in request. Contains one or more Discount. See Discount Response Container for details.	Optional
Address	Container	See Address Response Container for details.	Optional
Services	Container	See Service Response Container for details.	Optional
SubscriptionBars	Container	Contains one or more Subscription Bar. The sales person or sales channel (Dealer, Internet, Call Centre, etc.) via which the connection has been processed. See SubscriptionBar Response Container for details.	Optional
AttributeGroup	Container	See AttributeGroup Response Container for details.	Optional
ActiveAndPendingServices	Container	From ActiveAndPendingServices Dataset in request. This contains one or more Subscription Service(s) and returns only Active Services. See for ActiveAndPendingServices Response Container for further information.	Optional
SimProfileInformation	Container	See SIMProfileInformation Response Container for details.	
TerminationFee	Container	From Termination Fee Dataset in request. See TerminationFee Container for	Optional

Element Name	Content Type	Description	Required?
		details.	
Parent	Boolean	This indicates whether or not the subscription is a parent subscription.	Optional
Features	Container	See Features Response Container for further details.	Optional
Definitions	Container	Only populate if the Definitions dataset is passed through with either or both the PACKAGES and PENDING_TARIFF_CHANGE datasets. The exact content of this container will depend on the other datasets that are returned. For instance if the PACKAGES dataset wasn't supplied then Bolt On Packages will not be returned in this dataset. See Definitions Response Container for further details.	Optional
PendingTariffChange	Container	This dataset is returned from QuerySubscription if the PENDING_TARIFF_CHANGE dataset is supplied and there is a Tariff Change pending. See PendingTariffChange Response Container for further details.	Optional

ActiveAndPendingServices Response Container

The ActiveAndPendingServices response container has the following elements:

Element Name	Content Type	Description	Required?
Service	Container	See Service container for details.	Optional

Service

The Service response container has the following elements:

Element Name	Content Type	Description	Required?
ServiceCode	String6	This details the code attributed to the Service as it appears on the invoice.	Mandatory
PackageCode	String6	The code attributed to the Package. This indicates that the chosen service is part of Package, which is a combination of Services grouped together against this Subscription.	Optional
ServicePrice	Decimal	- Min Inclusive - 999999999.99 - Max Inclusive - 999999999.99	Optional
Description	String30	This details the short descriptive text (30-characters) attributed to the Service as it appears on the invoice.	Optional
EffectiveDate	Date	YYYY-MM-DDZ	Optional
ExpiryDate	Date	YYYY-MM-DDZ	Optional
IncdInTermCostCalc	Boolean	This indicates if a particular Service is included in the termination cost calculation.	Optional
PriceConsolidationService	String6	Applicable to Subscription Services only. This enables the chosen Service to become part of one consolidated Service, which is several chargeable Subscription Services grouped together to appear on the Subscription invoice as one Service with one charge or price against it.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional
NetworkConfirmed	Boolean	This indicates whether the Service has been confirmed by the Network.	Optional
DeleteActionStatus	String	This indicates the status of the deletion action. The possible statuses are as follows: - CONFIRMED - the associated deletion Workflow Event has been confirmed at the network. - ERROR - the associated deletion Workflow Eventh has errored.	Optional

Element Name	Content Type	Description	Required?
		- PENDING - the associated deletion Workflow Event has not yet completed. - NONE - there is no associated deletion Workflow Event.	

Address Response Container

The Address response container has the following elements:

Element Name	Content Type	Description	Required?
AddressNumber	Integer	The Subscription level delivery address number.	Optional
PersonalAddress	Container	The PersonalAddress container is returned when populated in CMP.	Optional
BusinessAddress	Container	The BusinessAddress container is returned when populated in CMP.	Optional
Last Amended Date	dateTime	The date and time at which the Subscription was last amended. YYYY-MM-DDThh:mm:ssZ	Optional



Only one address type, personal or business, can be setup at any one time. Therefore only the address which is populated in CMP is returned when an Account is queried specifying the ADDRESS dataset.

PersonalAddress Response Container

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Optional
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Separated or BLANK.	Optional
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the available Customer Types configured in CMP.	Optional

Element Name	Content Type	Description	Required?
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Response Container

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Optional
Address3	String40	Line three of the company's address.	Optional
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional
DateOfIncorporation	Date	The date the company register at the address specified, in the format YYYY-MM-DD.	Optional

Element Name	Content Type	Description	Required?
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact surname name.	Optional
JobTitle	String30	Company's contact job title.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter C for Company Address.

AttributeGroup Response Container

The AttributeGroup response container has the following processing results:

Element Name	Content Type	Description	Required
AttributeGroupId	String	This unique Attribute Group Id.	Mandatory
Attribute	Container	One or more repetitions. See Attribute Response Container for details.	Optional
EffectiveDate	DateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Attribute Response Container

The Attribute response container has the following elements:

Element Name	Content Type	Description	Required?
AttributeId	Decimal2	A unique Id for the Attribute. For example, 01. This is chosen from a list of Attributes configured against the chosen Attribute Group in CMP back office configuration.	Mandatory
AttributeValue	String120	A full description of the Attribute. For example, Dedicated Lease Line Connection	Optional
EffectiveDate	DateTime	The date on which the Attribute becomes effective. YYYY-MM-DDThh:mm:ssZ	Optional

SubscriptionBasic Response Container

The SubscriptionBasic response container has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionNumber	Integer8	The unique system generated reference number for the Subscription.	Mandatory
AgreementNumber	Integer8	The CMP Agreement Number of the Subscriber.	Mandatory
AccountNumber	Integer8	CMP Account Number that the Subscriber is on.	Mandatory
CorporateCode	String6	Indicates if the Subscriber is part of a Corporate structure.	Optional
GroupCode	String6	Indicates if the Subscriber is part of a Group structure.	Optional
CompanyNumber	String3	The Company Number to be assigned to the Account. The value must already be set up in CMP.	Mandatory
SalesAccountCode	Integer8	The sales person or sales channel (Dealer, Internet, Call Centre, etc.) via which the connection has been processed.	Optional
SubscriptionStatus	String	The value returned is one of the following: • Disconnected • Normal • Number Change Pending • Number Change-Waiting Order Despatch • Connection Pending • Connection-Waiting Order Despatch • Connection-Waiting Customer Activation • Future Connection Pending • Disconnection Pending • Future Disconnection Pending • Tariff Change Pending • Tariff Change-Waiting Order Despatch • Tariff Change-Waiting Customer Activation • Future Tariff Change Pending	Mandatory

Element Name	Content Type	Description	Required?
		• Number Change Pending • Number Change-Waiting Order Despatch • Number Change-Waiting Customer Activation • Future Number Change Pending • Connection Failed • Disconnection Failed • Tariff Change Failed • Number Change Failed • Network Service Pending • Future Network Service Pending • Network Service Failed • Bar Pending • Future Bar Pending • Bar Failed • Unbar Pending • Future Unbar Pending • Unbar Failed • Network Activity Pending • Future Network Activity Pending • Network Activity Failed • Not Connected	
LastSubscriptionOrderStatus	Enumeration	Possible Values: • AWAITING_ORDER_DESPATCH • AWAITING_CUSTOMER_ACTIVATION • COMPLETE • CANCELLED This gives the status of the last order that the Subscription was associated with. This is the same as the SubsOrderStatus that is returned from QueryOrder.	Optional
PricePlanCode	String6	This is the Price Plan Code that the Subscriber is on.	Optional
TariffChangePending	Boolean	This indicates if a Tariff Change is pending. This allows the calling system to definitively know if a Tariff Change is pending. Using the Sub-	Mandatory

Element Name	Content Type	Description	Required?
		scription Status can cause problems because of the complexity of Network Service Activity.	
TariffCode	String6	The Tariff the Subscriber is on.	Mandatory
TariffShareGroup	String19	The Subscribers Agreement Number concatenated with the Tariff Group value from the Tariff Extension file separated by a dash, for example 12345678-TSG1.	Optional
BillingType	String8 - Enumeration	Contain one the following values: - Prepaid - Postpaid - Hybrid	Mandatory
NetworkCode	String6	The Network Code of the network that the Subscription is on.	Mandatory
ConnectedDate	Date	This displays a date on which the Subscription is connected. YYYY-MM-DDZ	Optional
DisconnectedDate	Date	This displays a date on which the Subscription is disconnected. YYYY-MM-DDZ	Optional
TerminateOn	Date	Derived from the Subscription. Date on which the Subscription was terminated. YYYY-MM-DDZ	Optional
ConnectionReason	String4	Reason Code supplied at time of Subscriber creation.	Mandatory
AddressNumber	Integer8	The CMP Address Number for the Subscriber.	Mandatory
EmailAddress	String70	The Subscriber's email address.	Optional
Parent	Boolean	Indicates whether or not the Subscription is the parent.	Optional
LastTariffChangeEvent	Integer9	The Workflow Event Id of the last Tariff Change. This is also the Workflow Event Id of a pending Tar-	Optional

Element Name	Content Type	Description	Required?
		iff Change and can be used in the UpdateWorkflow web service to cancel a pending Tariff Change.	
LastNumberChangeEvent	Integer9	This is the Workflow Event Id of the last number change (any serial number change). It is also the Workflow Event Id of a pending number change. It can be used in the UpdateWorkflow webservice to cancel a pending number change.	Optional
LastConnectionEvent	Integer9	This is the Workflow Event Id of the last connection event. This is also the Workflow Event Id of a pending connection.	Optional
SuspendedFromInvoicing	Boolean	A flag indicating whether a Subscription is excluded from Invoice Production.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

BillingMedia Response Container

The BillingMedia response container has the following elements:

Element Name	Content Type	Description	Required?
BillingMediaCode	String6	The format in which the invoice is printed. Subs = Detailed bill (Itemisation) Billing Media must be a valid Billing media code that has been set up.	Optional
BillingMediaCopyInvoiceMediaCode	String6	The format in which the copy invoice is printed.	Optional
BillingMediaOverrideInvoiceMediaCode	String6	This allows for a different monthly bill design format to be applied to the specific subscription as an alternative to the format selected at the Agreement level.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

ContractAndSales Response Container

The ContractAndSales response container has the following elements:

Element Name	Content Type	Description	Required?
ContractNumber	String12	This relates to the service agreement the customer has subscribed to for a fixed period of time.	Optional
PricePlanCode	String6	Unique identifier for the Price Plan. The Price Plan details charges and services. Entering a price plan automatically attaches to the new subscription, tariff and package that were defined when the Price Plan was created.	Optional
Next Invoice Date	Date	This details the date on which the next expected invoice will be produced. YYYY-MM-DDZ	Optional
ContractStartDate	Date	If the customer is required to sign a contract on agreeing to connection the contract start date is displayed. YYYY-MM-DDZ	Optional
ContractEndDate	Date	This details the date on which the contract is due to end. This is usually 12 or 24 months after the date on which the contract was signed. YYYY-MM-DDZ This is a calculated value and is derived using the following calculation: Contract Start Date + TermOfContract + Freeze Days + CarriedOverContractDays	Optional
MinimumContractEndDate	Date	YYYY-MM-DDZ This is the minimum number of months that a subscription must be on the current contract before they are eligible for an upgrade.	Optional
TermOfContract	Integer3	This indicates the number of months over which the customer	Optional

Element Name	Content Type	Description	Required?
		is bound by the contract terms.	
CarriedOverContractDays	Integer3	'Carried over days' are added during an upgrade to allow for a scenario where a subscriber could, for example, have 23 days remaining on their contract at the time of upgrade. These days will then be added onto the new contract, so if the new contract was, for example, 24 months then the term of contract would now be 24 months and 23 days.	Optional
FreezeContractDays	Integer3	This displays the number of contracted days that the freeze will last for.	Optional
TermsAndConditionsGroupCode	String6	This details the specific terms and conditions linked to the Agreement.	Optional
TerminationInvoiceProduced	Boolean	When set to 'True' this indicates that the final closing invoice has been issued following disconnection.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

CustomerDetails Response Container

The CustomerDetails response container has the following elements:

Element Name	Content Type	Description	Required?
UserName	String30	This appears on the customer's invoice. This facility is mainly used by companies to identify who has the Subscription when the invoice is not being directly paid by the user.	Optional
SubPassword	String10	This is used for security purposes if it is necessary to control caller access.	Optional
ItemCode	String25	Details the code relative to the last sub related hardware product that was purchased by a Subscriber such as the latest handset or SIM card purchased.	Optional
DirectoryListingAllowed	Boolean	This includes or excludes the Subscription from internal directory listing, depending on whether or not it is set to True or False.	Optional
CustomerCostCentre	String20	Codes are used to allocate responsibility of charges to different areas within an organisation. The customer's own purchase ledger cost centre can be entered here and is printed on all invoices.	Optional
CustomerReference	String60	Reference number given to the customer when an order is placed.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Definitions Response Container

The Definitions response container has the following elements:

Element Name	Content Type	Description	Required?
PackageDefinition	Container	This is only populated when the PACKAGE_DEFINITION dataset is supplied in addition to the PACKAGES dataset. A PackageDefinition is returned for each different Package Code contained within the above mentioned datasets. See PackageDefinition response container for details.	Optional
PricePlanDefinitions	Container	This container will give more information about the Price Plan. It is only populated if the DEFINITIONS dataset is supplied with either the BASIC or PENDING_TARIFF_CHANGE datasets and either of those contain a PricePlanCode. For each PricePlanCode being returned in the response a PricePlanDefinition is returned. See PricePlanDefinitions response container for details.	Optional

PackageDefinition Response Container

The PackageDefinition response container has the following elements:

Element Name	Content Type	Description	Required?
PackageCode	String5	The unique code for the Package.	Mandatory
PackageClassification	Enumeration	Possible values: Base Bolton	Mandatory
Description	String30	The short description of the Package.	Mandatory
LongDescription	String120	The full description of the Package	Optional
ToolTipText	String300	The tool tip text for the Package.	Optional
Attributes	Container	Attributes are a configurable list of values that are used to describe the Package. An example of an Attribute Name for a package would be 'PackageType' An example of an Attribute description (for the attribute name example given above) would be one of: Base, Boost, Promotion or Discount. See Attribute response container for details.	Optional

Attribute Response Container

The Attribute response container has the following elements:

Element Name	Content Type	Description	Required?
Group	String6	The group allows Attributes to be grouped together. For instance to distinguish between descriptive and rules attributes. Descriptive Attributes are just for information purposes: CMP will base logic on rule Attributes.	Mandatory
Name	String30	Attribute names are a configurable list of attributes that can be configured to meet a particular business or technical requirement.	Mandatory
Value	String120	The Value of the attribute name.	Mandatory

PricePlanDefinitions Response Container

The PricePlanDefinitions response container has the following elements:

Element Name	Content Type	Description	Required?
PricePlanCode	String6	The unique code for the Price Plan.	Mandatory
PricePlanDescription	String30	The short description of the Price Plan.	Mandatory
LongDescription	String120	The full description of the Price Plan.	Optional
ToolTipText	String300	The tool tip text for the Price Plan.	Optional
ContractTerm	Integer3	The default contract term for this Price Plan, if none has been specifically configured against the price plan, the tariff contract term is returned.	Optional
Attributes	Container	The Attributes are a configurable list of values that can be associated with a Price Plan to provide more information on it. This can be used by the consuming application for e.g. display purposes. If an Attribute of the Price Plan was a SIM Only Price plan, this could have an attribute name of PlanType and then have an Value of SIMO or Handset.	Optional

Attribute Response Container

The Attribute response container has the following elements:

Element Name	Content Type	Description	Required?
Group	String6	The group allows Attributes to be grouped together. For instance to distinguish between descriptive and rules attributes. Descriptive Attributes are just for information purposes: CMP will base logic on rule Attributes.	Mandatory
Name	String30	Attribute names are a configurable list of attributes that can be configured to meet a particular business or technical requirement.	Mandatory
Value	String120	The Value of the attribute name.	Mandatory

Discount Response Container

The Discount response container has the following elements:

Element Name	Content Type	Description	Required?
DiscountType	String6	Details the discount type: normal, favourite number, cross product, invoice volume or cumulative.	Mandatory
DiscountSchemeCode	String6	The unique code for the discount scheme.	Optional
DiscountDescription	String60	A long description of the discount.	Optional
EffectiveDate	Date	The date on which the discount becomes effective. YYYY-MM-DDZ	Optional
ExpiryDate	Date	The date on which the discount will expire. YYYY-MM-DDZ	Optional
PackageCode	String6	The unique code for the base package with which the discount is associated.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Features Response Container

The Features response container has the following elements:

Element Name	Content Type	Description	Required?
Feature	Container	One or more repetitions. See Feature Response Container for details.	Mandatory

Feature Response Container

The Features response container has the following elements:

Element Name	Content Type	Description	Required?
FeatureCode	String6	CMP Feature Code, unique representation of network feature within CMP.	Mandatory
FeatureDescription	String	Description of the CMP Feature Code.	Mandatory
FeatureEnabled	Boolean	Indicating if feature is enabled or not.	Mandatory
FeatureBarred	Boolean	Indicating if feature is currently barred or not.	Mandatory
FeatureActivityPending	Boolean	Indicating if there is workflow activity pending on this feature.	Mandatory
SubscriberControlled	Boolean	Indicating if this feature can be controlled by the subscriber or not.	Mandatory

PendingTariffChange Response Container

The PendingTariffChange response container has the following elements:

Element Name	Content Type	Description	Required?
PricePlanCode	String6	This field is only returned if there is a Tariff Change pending and a Price Plan has been supplied as part of the Tariff Change request. It represents the new Price Plan that will be applied.	Optional
TariffCode	String6	This field is only returned if there is a Tariff Change pending. It represents the new Tariff that will be applied.	Mandatory
PackageCode	String6	This field is only returned if there is a Tariff Change pending and a Base Package has been supplied as part of the Tariff Change request. It represents the new Base Package that will be applied.	Optional
EffectiveDate	Date	The date upon which the Tariff Change is set to occur.	Mandatory

SerialNumbers Response Container

The SerialNumbers response container has the following elements:

Element Name	Content Type	Description	Required?
SerialNumbers	Container	See SerialNumber response container for details.	Optional
NonManagedSerialNumbers	Container	See NonManagedSerialNumbers response container for details.	Optional
NetworkSubCodes	Container	See NetworkSubCodes response container for details.	Optional

SerialNumbers Response Container

The SerialNumbers response container has the following elements:

Element Name	Content Type	Description	Required?
ManagedSerialNumber	Container	One or more (up to five) repetitions. See ManagedSerialNumber Response Container for details.	Optional

ManagedSerialNumber Response Container

The ManagedSerialNumber response container has the following elements:

Element Name	Content Type	Description	Required?
EnumerationId	Range1-5	The Managed Serial Number identification number.	Mandatory
ManagedSerialNumber	String25	The actual network serial number.	Mandatory
NetworkEffectiveDate	Date	The date on which the serial number becomes effective. YYYY-MM-DDZ	Optional
NetworkCode	String6	The Network Code of the network that the Subscription is on.	Optional
NetworkSerialStatus	String - Enumeration	Choice of: • CHANGING • CURRENT	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

NonManagedSerialNumbers Response Container

The NonManagedSerialNumbers response container has the following elements:

Element Name	Content Type	Description	Required?
NonManagedSerialNumber	Container	One or more (up to nine) repetitions. See NonManagedSerialNumber Response Container for details.	Optional

NonManagedSerialNumber Response Container

The NonManagedSerialNumber response container has the following elements:

Element Name	Content Type	Description	Required?
EnumerationId	Range 1-9	The Non-Managed Serial Number identification number.	Mandatory
NonManagedSerialNumber	String25	This contains a configurable Non-Managed Serial Number.	Mandatory
NetworkEffectiveDate	Date	The date on which the Non-Managed Serial Number becomes effective. YYYY-MM-DDZ	Optional
NetworkSerialStatus	String - Enumeration	Choice of: • CHANGING • CURRENT	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

NetworkSubCodes Response Container

The NetworkSubCodes response container has the following elements:

Element Name	Content Type	Description	Required?
NetworkSubCodes	Container	Zero or more (up to two) repetitions. See NetworkSubCode Response Container for details.	Optional

NetworkSubCode Response Container

The NetworkSubCode response container has the following elements:

Element Name	Content Type	Description	Required?
EnumerationId	Range1-2	The network sub-code identification number.	Mandatory
NetworkSubCode	String10	This contains an extra code or serial number associated with the network code. This field is completely configurable depending on customer business requirements.	Mandatory
NetworkEffectiveDate	Date	The date on which the network sub-code number becomes effective. YYYY-MM-DDZ	Optional
NetworkCode	String6	The network code of the network that the subscription is on.	Optional
NetworkSerialStatus	String - Enumeration	Choice of: • CHANGING • CURRENT	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Services Response Container

The Services response container has the following elements:

Element Name	Content Type	Description	Required?
Service	Container	See Service response container for details.	Optional

Service Response Container

The Service response container has the following elements:

Element Name	Content Type	Description	Required?
ServiceCode	String6	This details the code attributed to the Service as it appears on the invoice.	Mandatory
PackageCode	String6	The code attributed to the Package. This indicates that the chosen Service is part of Package, which is a combination of Services grouped together against this Subscription.	Optional
ServicePrice	Currency (Decimal 9,2)	- Min Inclusive - 999999999.99 - Max Inclusive - 999999999.99	Optional
Description	String30	This details the short descriptive text (30-characters) attributed to the Service as it appears on the invoice.	Optional
LongDescription	String	This details a longer descriptive text attributed to the Service (120-characters).	Optional
EffectiveDate	Date	The date from which the Service becomes effective. YYYY-MM-DDZ	Optional
ExpiryDate	Date	The date on which the Service is set to expire. YYYY-MM-DDZ	Optional
IncdInTermCostCalc	Boolean	This indicates if a particular Service is included in the termination cost calculation.	Optional
PriceConsolidationService	String6	Applicable to Subscription Services only. This enables the chosen Service to become part of one consolidated Service, which is several chargeable Subscription Services grouped together to appear on the Subscription invoice as one Service with one charge or price against it.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

SIMProfileInformation Response Container

The SIMProfileInformation response container has the following elements:

Element Name	Content Type	Description	Required?
SIMProfileInformation	Container	See SimProfileInformation Response Container for details.	Optional

SimProfileInformation Response Container

The SIMProfileInformation response container has the following elements:

Element Name	Content Type	Description	Required?
ICCID	Integer20	The ICCID (Integrated Circuit Card Identifier) identifies each SIM internationally	Mandatory
PUK1	Integer8	This is used to reset a personal identification number (PIN) that was either lost or stolen. This is normally updated into CMP from a SIM Upload job.	Mandatory
PUK2	Integer8	This is used to reset a personal identification number (PIN) that was either lost or stolen. This is normally updated into CMP from a SIM Upload job.	Mandatory

SubscriptionBars Response Container

The SubscriptionBars response container has the following elements:

Element Name	Content Type	Description	Required?
SubscriptionBar	Container	See SubscriptionBar response container for details.	Optional

SubscriptionBar Response Container

The SubscriptionBar response container has the following elements:

Element Name	Content Type	Description	Required?
NetworkCommandCode	String6	A unique code which identifies a specific network command.	Mandatory
BarredDate	dateTime	The date and time on which the bar became effective on the Subscription. YYYY-MM-DDThh:mm:ssZ	Mandatory
UnbarredDate	dateTime	This date and time is set when the Subscription bar has been removed. YYYY-MM-DDThh:mm:ssZ	Optional
BarReasonCode	String4	Code description relating to the bar reason code.	Optional
UnbarReasonCode	String4	Code description relating to the unbar reason code.	Optional
AdminBarFlag	Boolean	This indicates whether the bar was placed on the Subscription by the service administrators.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

TerminationFee Response Container

The TerminationFee response container has the following elements:

Element Name	Content Type	Description	Required?
TerminationFee	Currency (Decimal)	Amount to be charged if a Subscriber decides to leave their contract early.	Optional

UsageAndCreditControl Response Container

The UsageAndCreditControl response container has the following elements:

Element Name	Content Type	Description	Required?
LowerUsageLimit	Currency (Decimal)	A usage figure above the customer's average usage spend which, when reached, instigates an action such as warning the customer via SMS (if mobile) or by letter that the limit has been reached. - Min Inclusive: 0.00 - Max Inclusive: 999999999.99	Optional
UpperUsageLimit	Currency (Decimal)	A usage figure some way above the customer's average spend which, when reached, instigates an action, such as the barring of a fixed line or mobile handset. - Min Inclusive: 0.00 - Max Inclusive: 999999999.99	Optional
IgnoreUsageLimit	Boolean	If True, the customer is not notified when either their lower or upper usage limit is reached, and no auto response is triggered. This affects all subscriptions linked to the account.	Optional
AutoAdjust	Boolean	The system generated adjustment to usage limits based on customer spend history over three month periods.	Optional
IgnoreCreditControlProcedures	Boolean	This cancels the whole Credit Control process up to a specified date.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Sample QuerySubscription Response

```
<soapenv:Envelope xmlns:soapenv-
v="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>
<ns2:QuerySubscriptionResponse xmlns:n-
s2="http://mdsuk.com/ws/dise3g/subscription/definition" xmlns:n-
s3="http://mdsuk.com/ws/dise3g/workflow/definition"
xmlns:ns4="http://mdsuk.com/ws/dise3g/fault/exception">
<ns2:Result>
```

```
<ExternalReference>?</ExternalReference>
<SubscriptionBasic>
<SubscriptionNumber>6173524</SubscriptionNumber>
<AgreementNumber>3245512</AgreementNumber>
<AccountNumber>4015294</AccountNumber>
<CorporateCode>DRAXPR</CorporateCode>
<GroupCode>DRAXPR</GroupCode>
<CompanyNumber>001</CompanyNumber>
<SubscriptionStatus>Normal</SubscriptionStatus>
<TariffCode>Q18BCH</TariffCode>
<NetworkCode>CDIG</NetworkCode>
<ConnectedDate>2007-01-19Z</ConnectedDate>
<ConnectionReason>NB</ConnectionReason>
<AddressNumber>6545988</AddressNumber>
<EmailAddress>G.PAYNE001@MDSUK.com</EmailAddress>
<LastAmendedDate>2014-07-07T10:21:07Z</LastAmendedDate>
</SubscriptionBasic>
<CustomerDetails>
<UserName>Miss Marina S Sangbaran</UserName>
<SubPassword>MDSOAMS1</SubPassword>
<ItemCode/>
<DirectoryListingAllowed>true</DirectoryListingAllowed>
<CustomerCostCentre/>
<CustomerReference/>
<LastAmendedDate>2014-07-07T10:21:07Z</LastAmendedDate>
</CustomerDetails>
<Services>
<Service>
<ServiceCode>FOCITS</ServiceCode>
<PackageCode>Q1ST84</PackageCode>
<ServicePrice>0.00</ServicePrice>
<Description>Int Traveller Service - Free</Description>
<EffectiveDate>2008-07-21Z</EffectiveDate>
<LastAmendedDate>2013-12-17T15:44:48Z</LastAmendedDate>
</Service>
<Service>
<ServiceCode>LINECH</ServiceCode>
<PackageCode/>
<ServicePrice>9.25</ServicePrice>
<Description>Line Rental Charge</Description>
<EffectiveDate>2009-11-06Z</EffectiveDate>
<LastAmendedDate>2013-12-17T15:44:48Z</LastAmendedDate>
</Service>
<Service>
<ServiceCode>MMSB</ServiceCode>
```

```
<PackageCode/>
<ServicePrice>0.00</ServicePrice>
<Description>Multimedia Messaging Service</Description>
<EffectiveDate>2008-07-21Z</EffectiveDate>
<LastAmendedDate>2013-12-17T15:44:48Z</LastAmendedDate>
</Service>
<Service>
<ServiceCode>Q1CUG</ServiceCode>
<PackageCode>Q1ST84</PackageCode>
<ServicePrice>0.00</ServicePrice>
<Description>Free calls to the Office</Description>
<EffectiveDate>2008-07-21Z</EffectiveDate>
<LastAmendedDate>2013-12-17T15:44:48Z</LastAmendedDate>
</Service>
</Services>
<AttributeGroup>
<AttributeGroupId>ALAG01</AttributeGroupId>
<Attribute>
<AttributeId>1</AttributeId>
<AttributeValue>Test1</AttributeValue>
<EffectiveDate>2014-08-08T08:57:46Z</EffectiveDate>
</Attribute>
<Attribute>
<AttributeId>2</AttributeId>
<AttributeValue>Test1</AttributeValue>
<EffectiveDate>2014-08-08T08:57:46Z</EffectiveDate>
</Attribute>
<Attribute>
<AttributeId>3</AttributeId>
<AttributeValue>Test3</AttributeValue>
<EffectiveDate>2014-08-08T08:57:46Z</EffectiveDate>
</Attribute>
<EffectiveDate>2014-08-08T08:57:45Z</EffectiveDate>
</AttributeGroup>
<UpgradeEligibility>
<Eligible>true</Eligible>
<UpgradePossibleDate>2013-01-20Z</UpgradePossibleDate>
<EarlyUpgradePossibleDate>2012-04-20Z</EarlyUpgradePossibleDate>
<EarlyUpgradeCharge>0.0</EarlyUpgradeCharge>
<RemainingContractTerm>0</RemainingContractTerm>
<ReasonCodes>
<ReasonCode>200</ReasonCode>
</ReasonCodes>
</UpgradeEligibility>
</ns2:Result>
```

```

</ns2:QuerySubscriptionResponse>
</soapenv:Body>
</soapenv:Envelope>

```

2.17.4 RevertLastUpgrade



The RevertLastUpgrade SOAP web service has been deprecated.

The RevertLastUpgrade web service enables an external client system to revert a Subscriber's Tariff and Base Package back to their previous status, prior to the last Subscriber upgrade. The RevertLastUpgrade web service then invokes a Tariff Change to revert the Subscriber back onto their previous Tariff.

2.17.4.1 RevertLastUpgrade Request

The RevertLastUpgrade tag instructs the Subscription Service to revert the specified Subscription back to their previous proposition. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SubscriptionNumber	Integer8	The unique system generated reference number for the Subscription.	Mandatory
AuditRecord	Container	See AuditRecord request container for details.	Optional

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserId	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The Program Name should be hard coded in the calling application to uniquely identify that application.	Mandatory

2.17.4.2 RevertLastUpgrade Response

The RevertLastUpgrade response is the response to the RevertLastUpgrade request. This contains the following elements:

Element Name	Content Type	Description	Required?
External Reference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserId	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The Program Name should be hard coded in the calling application to uniquely identify that application.	Mandatory

2. 17. 5UpdateSubscription

The UpdateSubscription web service enables an external client system to update Subscription information for existing CMP Subscriptions.

To update the Subscription details, the user must pass in a valid CMP Subscription Number.

If more than one active Subscription exists for the Primary Serial Number submitted, an error message is returned.

Users are able to update individual attributes of the Subscription details as per the Edit Subscription screen. Invalid requests are rejected with an error message.

2.17.5.1 UpdateSubscription Request

The UpdateSubscription tag instructs the Subscription Service to update Subscription details. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SubscriptionIdentifier	Integer8	Identifier to the Subscription.	Mandatory
UpdateSubscriptionBasic	Container	See UpdateSubscriptionBasic request container for details.	Optional
UpdateBillingMedia	Container	See UpdateBillingMedia request container for details.	Optional
UpdateContractAndSales	Container	See UpdateContractAndSales request container for details.	Optional
UpdateCustomerDetails	Container	See UpdateCustomerDetails request container for details.	Optional
UpdateUsageAndCreditControl	Container	See UpdateUsageAndCreditControl request container for details.	Optional

UpdateSubscriptionBasic Request Container

The UpdateSubscriptionBasic request container has the following elements:

Element Name	Content Type	Description	Required?
SalesAccountCode	Integer8	The sales person or sales channel (Dealer, Internet, Call Centre, etc.) via which the connection has been processed	Optional
AddressNumber	Integer8	The address identifier of an existing CMP address	Optional
AgreementNumber	Integer8	The number automatically allocated by the system to the Agreement upon creation.	Optional
LastAmendedDate	Date	YYYY-MM-DDZ	Mandatory
ParentSubscription	Boolean	Defines whether or not the Subscription is to be set as a parent Subscription.	Optional

UpdateBillingMedia Request Container

The UpdateBillingMedia request container has the following elements:

Element Name	Content Type	Description	Required?
BillingMediaCode	String6	The format in which the invoice is printed, e.g. 'A4 paper'. Subs = Detailed bill (Itemisation) Billing Media must be a valid Billing media code that has been set up.	Optional
BillingMediaCopyInvoice	String6	The format in which the copy invoice is printed, e.g. 'A4 paper'.	Optional
Billing Media- aOverrideInvoiceMediaCode	String6	This allows for a different monthly bill design format to be applied to the specific Subscription as an alternative to the format selected at the Agreement level.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

UpdateContractAndSales Request Container

The UpdateContractAndSales request container has the following elements:

Element Name	Content Type	Description	Required?
ContractNumber	String12	If a Contract Number is supplied, a Contract Start Date must also be supplied.	Optional
ContractStartDate	Container	Either of: - Value - containing the new Expiry Date (Date)) - YYYY-MM-DDZ - Clear - containing the string 'CLEAR_FIELD' (string 11).	Optional
TermOfContract	Integer1-999	This indicates the number of months over which the customer is bound by the Contract Terms. The term of contract can be explicitly supplied in this request. If supplied then it takes precedence over the defaulted value. If its not supplied and the Contract Start Date is supplied, then the term of contract will default from the Tariff (if configured against it) or from the Price Plan if it has been supplied in the request. The value from the Price Plan supersedes the value from the Tariff in this situation.	Optional
CarriedOverContractDays	Integer3	Carried over days are added during an upgrade to allow for a scenario where a Subscriber could, for example, have 23 days remaining on their contract at the time of upgrade. These days will then be added onto the new contract, so if the new contract was, for example, 24 months then the term of contract would now be 24 months and 23 days.	Optional
TermsAndConditionsGroupCode	String6	This details the specific terms and conditions linked to the Agreement.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

UpdateCustomerDetails Request Container

The UpdateCustomerDetails request container has the following elements:

Element Name	Content Type	Description	Required?
UserName	String30	This appears on the customer's invoice. This facility is mainly used by companies to identify who has the Subscription when the invoice is not being directly paid by the user.	Optional
SubPassword	String10	This is used for security purposes if it is necessary to control 'caller' access.	Optional
ItemCode	String25	The list of Items that is applicable are items that are configured to be subscription related. These are items that have the Subscription Related flag in set up configured to Y.	Optional
DirectoryListingAllowed	Boolean	This includes or excludes the subscription from internal directory listing, depending on whether or not it is set to 'true' or 'false'.	Optional
CustomerCostCentre	String20	The valid cost centres are configured at the agreement level of the subscription. See createAgreementCostCentres webservice	Optional
CustomerReference	String60	Reference number given to the customer when an order is placed.	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

UpdateUsageAndCreditControl Request Container

The UpdateUsageAndCreditControl request container has the following elements:

Element Name	Content Type	Description	Required?
LowerUsageLimit	Currency	A usage figure above the customer's average usage spend which, when reached, instigates an action such as warning the customer via SMS (if mobile) or by letter that the limit has been reached. Min Inclusive: 0.00 Max Inclusive: 999999999.99	Optional
UpperUsageLimit	Currency	A usage figure some way above the customer's average spend which, when reached, instigates an action, such as the barring of a fixed line or mobile handset. Min Inclusive: 0.00 Max Inclusive: 999999999.99	Optional
IgnoreUsageLimits	Boolean	If 'true', this means the customer is not notified when either their lower or upper usage limit is reached, and no auto response is triggered. This affects all Subscriptions linked to the Account.	Optional
AutoAdjust	Boolean	The system generated adjustment to usage limits based on customer spend history over three month periods.	Optional
IgnoreCreditControlProcedures	Boolean	This cancels the whole Credit Control process up to a specified date (e.g one month).	Optional
LastAmendedDate	dateTime	YYYY-MM-DDThh:mm:ssZ	Mandatory

2.17.5.2 UpdateSubscription Response

UpdateSubscription response is the response to the UpdateSubscription request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2. 17. 6UpdateSubscriptionSerialNumbers

The UpdateSubscriptionSerialNumbers web service enables an external client system to update Subscription Serial Numbers in bulk for existing CMP Subscriptions, including Managed Serial Numbers, Non-Managed Serial Numbers and Network Sub Codes.

In order to update the Subscription Serial Number, the user must pass in a valid CMP Subscription Number.

Potentially, multiple Subscription Numbers can be changed at any one time. The user will pass through the information for the 'type' of number change(s). The user can request this information via the QuerySubscription web service, specifying the SERIALNUMBERS dataset.

If a number change is raised via the web service and the Subscription meets the criteria above, an error is sent within the response to indicate that a number change is not possible at that time.

A Subscription is connected to determine which serial numbers can be changed. A Network can be set up to have many serial numbers. The serial numbers are split into two different types: Managed Serial Numbers and Non-Managed Serial Numbers. Within each 'type', the serial number has a unique ID. For example:

- Managed Serial Numbers IDs 1-5
- Non-Managed Serial Numbers 1-9 (includes PIN 1 & 2)

The UpdateSubscriptionSerialNumbers web service enables any of the numbers configured against the Network to be changed (or combination of numbers) if the configuration within CMP is set up to allow them to. If a web service request for a number change is received and the CMP configuration does not allow a change for the specific number an error is sent in the response.

The validation on the serial number passed through also utilises the CMP validation rules. Each serial number that is configured has 'field validation' to determine the rules that a valid serial number must pass. The serial number (for example, a SIM Number) must be numeric, between 1-20 in length, and have a prefix which is configurable depending on the Network (for example, the prefix could be 63 or 64).

Once the validation has passed the number change Workflow Event is raised. This is considered a 'successful' update number change. The web service does not wait for the

Workflow Event response. Dependent upon the selection in the request, either the Non-Network or Network Workflow Event is raised.

Standard CMP processing is responsible for processing and applying Workflow Events.

2.17.6.1 UpdateSubscriptionSerialNumbers Request

The UpdateSubscriptionSerialNumbers request tag instructs the Subscription Service to update serial numbers. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SubscriptionIdentifier	Integer8	Identifier to the Subscription created.	Mandatory
ManagedSerialNumbers	Container	0 to 5 repetitions. See ManagedSerialNumbers request container for details.	Optional
NonManagedSerial Numbers	Container	See NonManagedSerialNumbers request container for details	Optional
NetworkSubCodes	Container	See NetworkSubCodes request container for details.	Optional
SalesAccountIdentifier	Integer8	Sales Account number of the salesperson who introduced the customer to the Service.	Optional*
SalespersonIdentifier	Integer8	ID Number of the salesperson. This is saved to the number change workflow event in the Salesperson Number field.	Optional‡
NonNetworkChange	Boolean	If set to 'true', this allows numbers to be entered without generating a network command.	Mandatory

* This is an optional field if Serial Number Management functionality is switched on.

‡ If both the SalesAccountIdentifier and SalespersonIdentifier fields are populated, they must be a valid combination, that is they are for the same person and exist on the Sales Force table



For each 'type' of number change the user must pass in the relevant information in the appropriate container(s). Although the containers are optional, at least one container must be provided.

ManagedSerialNumbers Request Container

The ManagedSerialNumbers request container has the following elements:

Element Name	Content Type	Description	Required?
ManagedSerialNumber	Container	See ManagedSerialNumber request container for details.	Optional

ManagedSerialNumber Request Container

The ManagedSerialNumber request container has the following elements:

Element Name	Content Type	Description	Required?
Id	Range 1-5	The Id refers to the Managed Serial Number ID. Max number of of 5. Managed Serial Numbers are configurable depending on customer business requirements.	Mandatory
SerialNumber	Container - Choice	A choice of: - Value (String25 representing a serial number) - AutoSelect The 'Auto Select' should be used in conjunction with Serial Number Management (next available number is selected for the update).	Mandatory

NonManagedSerialNumbers Request Container

The NonManagedSerialNumbers request container has the following elements:

Element Name	Content Type	Description	Required?
NonManagedSerialNumber	Container	0-9 repetitions. See NonManagedSerialNumber request container for details.	Optional

NonManagedSerialNumber Request Container

The NonManagedSerialNumber request container has the following elements:

Element Name	Content Type	Description	Required?
Id	Range1-9	The Id refers to the Non-Managed Serial Number number ID. Max number of 9.	Mandatory
Value	String25	This contains a configurable non-managed serial number (e.g. PUK Number, PIN Number etc.). This field is completely configurable depending on customer business requirements.	Mandatory

NetworkSubCodes Request Container

The NetworkSubCodes request container has the following elements:

Element Name	Content Type	Description	Required?
NetworkSubCode	Container	See NetworkSubCode request container for details.	Optional

NetworkSubCode Request Container

The NetworkSubCode request container has the following elements:

Element Name	Content Type	Description	Required?
Id	Range1-2	The Id refers to the Network Sub Code ID. Max number of 2.	Mandatory
Value	String25	This contains an extra code or serial number associated with the network code. This field is completely configurable depending on customer business requirements.	Mandatory

2.17.6.2 UpdateSubscriptionSerialNumbers Response

UpdateSubscriptionSerialNumbers response is the response to the UpdateSubscriptionSerialNumbers request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2. 17. 7UpdateTariff

The UpdateTariff web service enables an external client system to change a customer's Price Plan on their CMP Subscription. A Price Plan consists of a Tariff, a Package and a Connection Type (the latter is only relevant for a new connection).

The user must pass in a valid CMP Subscription Number and Price Plan (which can be used to specify a Tariff and base Package combination) or Tariff and Package combination to which the customer wants to transfer.

If more than one active Subscription exists for the Primary Serial Number submitted, an error message is returned.

Submission of invalid data for the above criteria results in an error message.

The default data as specified in the Tariff Change Matrix in CMP Back Office is used for the Tariff Change, for example *End Network Services?*.

2.17.7.1 UpdateTariff Request

The UpdateTariff tag instructs the Subscription Service to update the Subscriber's Tariff details. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
SubscriptionNumber	Integer8	Indicates the unique system generated Subscription Number.	Mandatory
PricePlanCode	String6	A Price Plan can be used to specify a Tariff and Base Package combination. Supplying a Price Plan Code means that neither a Tariff Code nor a Package Code are necessary as they will be defaulted in using Price Plan set up.	Optional
TariffCode	String6	It is not possible to update the Tariff to be on the same Tariff that it is already on. However, this can be overridden if the ALLOW.SAME.TARIFF system property is configured in CMP Back Office. This is mandatory if a Price Plan is not supplied.  This element is deprecated, and any values supplied in the request will be ignored.	Optional
PackageCode	String6	The Package must be a valid Package for the new Tariff that has been selected. If a Package Code is not provided, the default Package Code associated with the new Tariff will be used (if configured).  This element is deprecated, and any values supplied in the request will be ignored.	Optional
IgnoreDefaultPackage	Boolean	This flag determines whether or not	Optional

Element Name	Content Type	Description	Required?
		the default Package is selected when a Package code is not provided.	
NonNetworkChange	Boolean	This allows numbers to be entered without generating a network command.	Mandatory
EndBars	Boolean	This determines whether the bars will be ended if a change of Tariff occurs.	Optional
EndBarEventCode	String4	If EndBars is set to 'true' then the appropriate Workflow Event Code is required.	Optional
EndDialledOverrides	Boolean	If set to 'true' this ends any existing dialled number overrides for the chosen Subscription. This functionality helps prevent situations where a customer is transferred onto a more favourable Tariff but continues to benefit from overrides that have been set up for the superseded Tariff. The CSA is alerted of any existing Subscriber based overrides relating to dialled number or call class via a warning message.	Optional
EndCallClassOverrides	Boolean	If set to 'true' this ends any existing Call Class Overrides for the chosen subscription. This functionality helps prevent situations where a customer is transferred onto a more favourable Tariff but continues to benefit from overrides that have been set up for the superseded Tariff. Setting both 'EndDialledNumberOverrides' and 'EndCallClassOverrides' to 'true' allows all overrides for the chosen Subscription to be ended.	Optional
ManagedSerialNumbers	Container	A container for one or more Managed Serial Numbers. See Man-	Optional

Element Name	Content Type	Description	Required?
		agedSerialNumbers request container for details.	
NonManagedSerialNumbers	Container	A container for one or more Non Managed Serial Numbers. See NonManagedSerialNumbers request container for details.	Optional
NetworkSubCodes	Container	A container for one or more Network Sub Codes. See NetworkSubCodes request container for details.	Optional
SalesAccountIdentifier	Integer8	Sales Account number of the salesperson who introduced the customer to the Service. Optional field if Serial Number Management is switched on.	Optional
SalespersonIdentifier	Integer8	ID Number of the salesperson. This is stored on the tariff change workflow event.  If both the SalesAccountIdentifier and SalespersonIdentifier fields are populated, they must be a valid combination, that is they are for the same person and exist on the Sales Force table	Optional
UpdateContractAndSales	Container	See UpdateContractAndSales request container	Optional
AttributeGroup	Container	See AttributeGroup Request Container for details.	Optional
AsOfDate	Container Choice	One of: • Date • Bill Cycle See AsOfDate request container for details. This optional container allows the specification of the date on which the Tariff Change is to take place. If not supplied then the Tariff Change will	Optional

Element Name	Content Type	Description	Required?
		take place immediately with the effective date of the Tariff Change being backdated to midnight.	
AuditRecord	Container	See the AuditRecord request container for details.	Optional
LastAmendedDate	dateTime	The user obtains this value by issuing a Query Subscription request.	Mandatory

ManagedSerialNumbers Request Container

The ManagedSerialNumbers request container has the following elements:

Element Name	Content Type	Description	Required?
ManagedSerialNumber	Container	See ManagedSerialNumber request container for details.	Optional

ManagedSerialNumber Request Container

The ManagedSerialNumber request container has the following elements:

Element Name	Content Type	Description	Required?
Id	Range 1-5	The Id refers to the Managed Serial Number ID. Max number of 5. Managed Serial Numbers are configurable depending on customer business requirements.	Mandatory
SerialNumber	Container - Choice	A choice of: - Value (String25 representing a serial number) - AutoSelect The 'Auto Select' should be used in conjunction with Serial Number Management (next available number is selected for the update).	Mandatory

ManagedSerialNumbers Request Container

The ManagedSerialNumbers request container has the following elements:

Element Name	Content Type	Description	Required?
ManagedSerialNumber	Container	See ManagedSerialNumber request container for details.	Optional

ManagedSerialNumber Request Container

The ManagedSerialNumber request container has the following elements:

Element Name	Content Type	Description	Required?
Id	Range 1-5	The Id refers to the Managed Serial Number ID. Max number of 5. Managed Serial Numbers are configurable depending on customer business requirements.	Mandatory
SerialNumber	Container - Choice	A choice of: - Value (String25 representing a serial number) - AutoSelect The 'Auto Select' should be used in conjunction with Serial Number Management (next available number is selected for the update).	Mandatory

UpdateContractAndSales Request Container

The UpdateContractAndSales request container has the following elements:

Element Name	Content Type	Description	Required?
ContractNumber	String12	If a Contract Number is supplied, a Contract Start Date must also be supplied.	Optional
ContractStartDate	Container	Either of: - Value - containing the new Expiry Date (Date)) - YYYY-MM-DDZ - Clear - containing the string 'CLEAR_FIELD' (string 11).	Optional
TermOfContract	Integer1-999	This indicates the number of months over which the customer is bound by the Contract Terms. The term of contract can be explicitly supplied in this request. If supplied then it takes precedence over the defaulted value. If its not supplied and the Contract Start Date is supplied, then the term of contract will default from the Tariff (if configured against it) or from the Price Plan if it has been supplied in the request. The value from the Price Plan supersedes the value from the Tariff in this situation.	Optional
CarriedOverContractDays	Integer3	Carried over days are added during an upgrade to allow for a scenario where a Subscriber could, for example, have 23 days remaining on their contract at the time of upgrade. These days will then be added onto the new contract, so if the new contract was, for example, 24 months then the term of contract would now be 24 months and 23 days.	Optional
TermsAndConditionsGroupCode	String6	This details the specific terms and conditions linked to the Agreement.	Optional

Attribute Request Container

The Attribute request container has the following elements:

Element Name	Content Type	Description	Required?
AttributeGroupId	String6	A unique ID for the Attribute Group. For example, 03A. Each account can have only a single effective Attribute Group at any one time.	Mandatory
Attribute	Container	Zero or more repetitions. See Attribute request container for details.	Optional

Attribute Request Container

The Attribute request container holds details of one particular Attribute:

Element Name	Content Type	Description	Required?
AttributeId	Decimal2	A unique Id for the Attribute. For example, 01. This is chosen from a list of Attributes configured against the chosen Attribute Group in CMP Back Office configuration.	Mandatory
AttributeValue	String120	A full description of the Attribute. For example, Dedicated Lease Line Connection.	Optional

AsOfDate Request Container

The AsOfDate request container has the following elements:

Element Name	Content Type	Description	Required?
Date	Date	This is the date on which the Tariff Change is to take place. As its optional, if its not supplied then the Tariff Change will take place immediately.	Optional
OnBillCycle	Boolean	When this is selected then Tariff Change Workflow Event will be set to process on the next bill cycle. If the Bill Cycle is changed between when the Tariff Change was raised and the Tariff Change taking place, the Tariff Change will take place on the original Bill Cycle Date unless the Tariff ChangeTariff Change Workflow Event is updated manually in AgentView or via the UpdateWorkflow web service.	Optional

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The program name should be hard coded in the calling application to uniquely identify that application.	Mandatory

2.17.7.2 UpdateTariff Response

The UpdateTariff response is the response to the UpdateTariff request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
EventNumber	Integer9	The Tariff Change Workflow Event Number generated by CMP.	Mandatory
PackageCode	String6	The Package Code used in the Tariff update (whether supplied in the request or the default associated with the new Tariff).	Optional

2. 18 WorkflowService

The information in this section corresponds to the CMP Toolbox web services as specified in the [workflowservice.wsdl](#).

The following web services are included:

- Create Workflow
- Query Workflow
- Query Workflows
- Update Workflow
- Query Worklists
- Query Worklist
- Create Sales Ledger Adjustment
- Delete Sales Ledger Adjustment

2. 18. 1CreateSalesLedgerAdjustment

The CreateSalesLedgerAdjustment web service enables an external client system to add a Sales Ledger Adjustment to an existing Workflow Event within CMP.

Sales Ledger Adjustments are created as follows:

- The Workflow Event is created.
- One or more credit and/or debits are added.
- The Workflow Event is processed.
- Processing the workflow event uses the credit/debit details to create pending invoices.
- Non-Subscription Invoice Production converts the pending invoices into normal invoices.
- Invoice posting updates the ledgers, which adjusts the Account Balance.

2.18.1.1 CreateSalesLedgerAdjustment Request

The CreateSalesLedgerAdjustment tag instructs the Workflow Service to create a Sales Ledger Adjustment. This tag contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
EventNumber	Integer9	Unique number associated with the Workflow Event.	Mandatory
ServiceCode	String6	This details the code attributed to the Service as it appears on the invoice.	Mandatory
SubscriptionNumber	String8	The unique system generated reference number for the Subscription.	
ChargedStartDate	date	This displays the date that the charge started. YYYY-MM-DDZ	Optional
ChargedEndDate	date	This displays the date that the charge ended. YYYY-MM-DDZ	Optional
NetAmount	Currency	A positive amount indicates a Debit. A negative amount indicates a Credit. Cannot be zero	Mandatory
ChargeToNominalCode	String29	If not supplied, this defaults to the Service Code's default Nominal Code.	Optional
TaxRateAtStart	Boolean	This is usually set to 'False'.	Optional
Comments	String	Any specific comments in relation to the credit/debit.	Optional

2.18.1.2 CreateSalesLedgerAdjustment Response

The CreateSalesLedgerAdjustment response is the response to the CreateSalesLedgerAdjustment Request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2. 18. 2CreateWorkflow

The CreateWorkflow web service enables an external client system to create a Workflow Event on a CMP Subscription, Account, Corporate, Group or Agreement.

The user must pass in a valid CMP workflow event type and code and the hierarchy level and reference number to add the Workflow Event. The web service automatically instructs CMP how to process the Workflow Event.

The user can submit additional Workflow Event parameters as part of the web service request.

The web service returns a Workflow Event Number.

Submission of invalid data for the above criteria results in an error message.

2.18.2.1 CreateWorkflow Request

The CreateWorkflow tag instructs the Workflow Service to create a Workflow Event. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
WorkflowData	Container	See WorkflowData request container for details.	Mandatory
AuditRecord	Container	See AuditRecord request container for details.	Optional

WorkflowData Request Container

The WorkflowData request container has the following elements:

Element Name	Content Type	Description	Required?
TargetIdentifier	Container - Choice	Choice of one of the following elements: • GroupIdentifier (String6) • CorporateIdentifier (String6) • AccountIdentifier (Integer8) • SubscriptionIdentifier (Integer8) • AgreementIdentifier (Integer8) • MobileNumber (String25)	Mandatory
EventTypeCode	String4	The specific Event Type configured in CMP associated to the Workflow Event to be raised.	Mandatory
EventCode	String4	The specific Event Code configured in CMP associated to the Workflow Event to be raised.	Mandatory
ProcessCommand	Container - Choice	Choice of: • Suppress • YES • NO	Mandatory
ProcessDate	Date	The date on which the Workflow Event is processed. YYYY-MM-DD	Optional
ProcessDateTime	Date Time	The date and time on which the Workflow Event is processed. YYYY-MM-DDThh:mm:ss If a value is supplied, this overrides the value for ProcessDate.	Optional
ProcessBackdate	Date	YYYY-MM-DD	Optional
ContactInformation	String	The name of the person to be contacted in the event of	Optional

Element Name	Content Type	Description	Required?
		queries in relation to the specific Workflow Event. If left blank and Workflow Event raised at Subscription level, the User Name held at this level is defaulted. If left blank and Workflow Event raised at any other level, the field remains blank.	
TelephoneNumber	String15	The telephone number of the person to be contacted in the event of queries.	Optional
ResolutionRequiredByDate	Date	The date by which the Workflow Event must be resolved or the date when the Workflow Event must be processed. YYYY-MM-DD	Optional
ResolutionRequiredByDateTime	Date Time	The date and time by which the Workflow Event must be resolved or the date and time when the Workflow Event must be processed. YYYY-MM-DDThh:mm:ss If no value is supplied, this defaults to midnight. If a value is supplied, it overrides the value for ResolutionRequiredByDate	Optional
ReasonCode	String4	The reason the Workflow Event was raised. For example, customer request.	Optional
PassToUserId	String	The CMP user or department to whom the Workflow Event has been or is to be sent.	Optional
IncludeNotesDefault	Boolean	Set to 'true' if the notes are	Optional

Element Name	Content Type	Description	Required?
		included on the workflow by default.	
Notes	String	This displays any notes attached to the Workflow Event.	Optional

AuditRecord Request Container

The AuditRecord request container has the following elements:

Element Name	Content Type	Description	Required?
UserID	String10	User ID associated with the profile. This is the ID which the calling program adds to the records that are created.	Mandatory
Program	String10	The program name should be hard coded in the calling application to uniquely identify that application.	Mandatory

2.18.2.2 CreateWorkflow Response

CreateWorkflow response is the response to the CreateWorkflow request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
EventNumber	Integer9	Unique number associated with the Workflow Event raised.	Mandatory

2. 18. 3DeleteSalesLedgerAdjustment

The DeleteSalesLedgerAdjustment web service enables an external system to remove a Sales Ledger Adjustment from a Workflow Event within CMP.

2.18.3.1 DeleteSalesLedgerAdjustment Request

The DeleteSalesLedgerAdjustment tag instructs the Workflow Service to remove a Sales Ledger Adjustment. This tag contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
WorkflowEventNumber	Integer9	Unique number associated with the Workflow Event.	Mandatory
LineNumber	Integer5	Identifies the Sales Ledger Adjustment line to remove (can be identified via the QueryWorkflow request).	Mandatory

2.18.3.2 RemoveSalesLedgerAdjustment Response

The RemoveSalesLedgerAdjustment response is the response to the RemoveSalesLedgerAdjustment request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional

2. 18. 4QueryWorkflow

Every Workflow Event has a status associated with it. The QueryWorkflow web service enables an external client system to retrieve Workflow Event Summary details for an individual Workflow Event in order to check this status.

Every CMP Workflow Event has a unique Workflow Event Number, which is generated when the Workflow Event is created.

One or more datasets can be specified in the QueryWorkflow to retrieve different information about a Workflow Event.

It is possible to query and retrieve Linked Workflow Events which are triggered automatically by the successful completion of another Workflow Event. Linked Workflow Events are configured to be automatically processed in a defined sequence which is halted if any of the actions fail.

2.18.4.1 QueryWorkflow Request

The QueryWorkflow request tag instructs the Workflow Service to query CMP for the details of one specific Workflow Event. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
EventNumber	Integer9	Unique number associated with the Workflow Event.	Mandatory
Dataset	Container - Choice	1 or more repetitions of the following datasets can be specified: • BASIC • CONTACT_DETAILS • ADDRESS • NOTES • ADJUSTMENTS • LINKED_EVENTS	Mandatory



If the ADDRESS dataset is specified, the QueryWorkflow response only returns an address if the Delivery Address Override has been set on the Workflow Event record.

2.18.4.2 QueryWorkflow Response

The QueryWorkflow response is the response to the QueryWorkflow request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
WorkflowBasic	Container	See WorkflowBasicData response container for details.	Optional
ContactDetails	Container	See ContactDetails response container for details.	Optional
Address	Container	See Address response container for details.	Optional
Notes	Container	See Notes response container for details.	Optional
Adjustments	Container	See AdjustmentData response container for details.	Optional
LinkedEvents	Container	See LinkedEvents response container for details.	Optional

WorkflowBasic Response Container

The WorkflowBasic response container has the following elements:

Element Name	Content Type	Description	Required?
EventNumber	Integer9	Unique number associated with the Workflow Event.	Mandatory
CustomerLevel	String	Valid values are: - Subscription - Account - Corporate - Group - Agreement	Mandatory
CustomerLevelReference	String8	The appropriate unique reference for the CustomerLevel selected. For example: Subscription Number, Agreement Number, Corporate Code, Group Code or Account Number.	Mandatory
EventStatus	String	The current status of the Workflow Event.	Mandatory
CurrentUserId	String	The User ID of the last user who updated the Workflow Event.	Optional
EventType	String4	The specific Event Type configured in CMP associated to the Workflow Event to be raised.	Mandatory
EventCode	String4	The specific Event Code configured in CMP associated to the Workflow Event to be raised.	Mandatory
DeliveryAddressNumber	Integer8	This details the Delivery Address Number which is one of the several Delivery Addresses available in the CMP.	Mandatory
ReasonCode	String4	The reason the Workflow Event was raised.	Optional
ResolutionData	Container	See ResolutionData response container for details.	Mandatory
LastAmendedDate	DateTime	YYYY-MM-DDThh:mm:ssZ	Optional
CreatedDate	DateTime	Workflow Event creation date. YYYY-MM-DDThh:mm:ssZ	Mandatory

ResolutionData Response Container

The ResolutionData response container has the following elements:

Element Name	Content Type	Description	Required?
ResolvedById	String	The ID of the user who resolved the workflow event.	Optional
ResolvedDate	Date	The date on which the workflow was resolved. YYYY-MM-DDZ	Optional
ResolvedDateTime	DateTime	The date and time on which the Workflow Event was resolved. YYYY-MM-DDThh:mm:ssZ	Optional
ResolutionReqByDate	DateTime	The date by which the event must be resolved or the date when the event must be processed. This field contains a drop-down calendar to aid date selection, if required. YYYY-MM-DDZ	Optional
ProcessedDate	Date	The date on which the workflow is processed. YYYY-MM-DDZ	Optional
OverrideActionDate	Date	If a network action has occurred which is mirrored in CMP the non-network action can be backdated in order that it matches with the network date. YYYY-MM-DDZ	Optional

ContactDetails Response Container

The ContactDetails response container has the following elements:

Element Name	Content Type	Description	Required?
ContactName	String30	This contains details of the person within the customer's organisation who manages the account. The name of a person to be contacted in the event of queries	Optional
ContactTelephoneNumber	String15	The contact's telephone number.	Optional
ContactExtension	String15	The contact's telephone extension number, if any.	Optional
LastAmendedDate	DateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Address Response Container

The Address response container has the following elements:

Element Name	Content Type	Description	Required?
AddressNumber	Integer	The Subscription level delivery address number.	Optional
PersonalAddress	Container	The PersonalAddress container is returned when populated in CMP.	Optional
BusinessAddress	Container	The BusinessAddress container is returned when populated in CMP.	Optional
Last Amended Date	dateTime	The date and time at which the Subscription was last amended. YYYY-MM-DDThh:mm:ssZ	Optional



Only one address type, personal or business, can be set up at any one time. Therefore only the address that is populated in CMP is returned when an Account is queried specifying the ADDRESS dataset.

PersonalAddress Response Container

Element Name	Content Type	Description	Required?
Title	String10	The customer's appropriate title for example Mr, Mrs, Miss, Ms or Dr. This field is always mandatory but can be made optional via configuration if required.	Mandatory
Forename	String50	Customer's first name.	Optional
MiddleName	String20	Customer's middle name.	Optional
Surname	String50	Customer's surname.	Mandatory
Address1	String60	Line one of the customer's address.	Mandatory
Address2	String60	Line one of the customer's address.	Optional
Address3	String60	Line one of the customer's address.	Optional
Address4	String60	Line one of the customer's address.	Optional
Address5	String60	Line one of the customer's address.	Optional
Postcode	String10	Customer's post code. Must be entered without spaces.	Optional
DateOfBirth	Date	Customer's date of birth, in the format YYYY-MM-DD.	Optional
Gender	String	Choice of: Male, Female, Unknown or BLANK.	Optional
MaritalStatus	String	Choice of: Married, Single, Widowed, Divorced, Other, Seperated or BLANK.	Optional
DateOfResidence	Date	The date from which the customer has lived at the address specified, in the format YYYY-MM-DD.	Optional
CustomerType	String10	Selected from one of the available Customer Types configured in CMP.	Optional
AddressType	String10	Identifies if the customer is a home owner, renting, living with parents, council tenant etc. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address. Configurable CMP list.	Optional

Element Name	Content Type	Description	Required?
Occupation	String10	The customer's current occupation. Configurable CMP list.	Optional
IDType	String10	The available type of ID used as proof of identity for example passport or driving license. Configurable CMP list.	Optional
IDNumber	String30	The unique ID from the proof of identity.	Optional
TelephoneNumber	String15	Customer's main contact telephone number.	Optional
EveningTelephoneNumber	String15	Customer's additional telephone number they can be reached on.	Optional
FaxNumber	String15	Customer's fax number.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'P' for Personal Address.

BusinessAddress Response Container

Element Name	Content Type	Description	Required?
CompanyName	String60	Name of company.	Mandatory
Address1	String40	Line one of the company's address.	Mandatory
Address2	String40	Line two of the company's address.	Optional
Address3	String40	Line three of the company's address.	Optional
Address4	String40	Line four of the company's address.	Optional
Address5	String40	Line five of the company's address.	Optional
Postcode	String10	Company's postcode. Must be entered without spaces.	Optional
CompanyTelephoneNumber	String15	Company's main contact telephone number.	Optional
ContactTelephoneNumber	String15	The individual's contact telephone number.	Optional
FaxNumber	String15	Company's fax number	Optional
CompanyType	String10	Indicates the type of company. Configurable CMP list.	Optional
AddressType	String10	Identifies the company's address. Configurable CMP list.	Optional
AddressCategory	String10	Indicates property value. A category range relating to the address can be configured. Configurable CMP list.	Optional
IndustrialClassificationCode	String10	Indicates the industry the company resides.	Optional
CompanyRegistration	String25	Unique ID the company is registered to.	Optional
DateOfIncorporation	Date	The date the company register at the address specified, in the format YYYY-MM-DD.	Optional

Element Name	Content Type	Description	Required?
Title	String10	Company's contact title.	Optional
Forename	String15	Company's contact first name.	Optional
MiddleName	String10	Company's contact middle name.	Optional
Surname	String25	Company's contact surname name.	Optional
JobTitle	String30	Company's contact job title.	Optional



CMP configuration controls which elements are mandatory and optional. Standard validation settings can be changed via setup: DISESETUP > 5. Subscriber Registration Set up > 15. Delivery Address Set Up > 8. Field Validation Maintenance. Enter 'C' for Company Address.

Notes Response Container

The Notes response container has the following elements:

Element Name	Content Type	Description	Required?
Notes	String	Any notes that have been entered in the Notes section against the specific Workflow Event queried.	Optional
LastAmendedDate	DateTime	YYYY-MM-DDThh:mm:ssZ	Optional

Adjustments Response Container

The Adjustments response container has the following elements:

Element Name	Content Type	Description	Required?
Adjustment	Container	See Adjustment response container for details	Optional

Adjustments Response Container

The Adjustments response container has the following elements:

Element Name	Content Type	Description	Required?
LineNumber	Integer5	This is the unique number of the individual Sales Ledger Adjustment invoice line record.	Mandatory
ServiceCode	String6	This details the code attributed to the Service as it appears on the invoice.	Mandatory
SubscriptionNumber	Integer8	The unique system generated reference number for the Subscription	Optional
PrimarySerialNumber	String25	The Primary Serial Number of the Subscription	Optional
ChargeStartDate	Date	This displays the date that the charge started. YYYY-MM-DDZ	Optional
ChargeEndDate	Date	This displays the date that the charge ended. YYYY-MM-DDZ	Optional
NetAmount	Currency	This displays the amount of the Sales Ledger Adjustment to be credited or debited against the Account.	Mandatory
ChargeToNominalCode	String29	This information relates to the Nominal Code.	Optional
TaxRateAtStart	Boolean	This is usually set to 'False'.	Optional
Comments	String	Any specific comments in relation to the credit/debit.	Optional
LastAmendedDate	DateTime	YYYY-MM-DDThh:mm:ssZ	Optional



The values match those presented in the CMP UI when a Sales Ledger Adjustment is viewed. However, this does not include the referenced data such as the Service, Tariff and Nominal Description.

LinkedEvent Response Container

The LinkedEvent response container has the following elements:

Element Name	Content Type	Description	Required?
EventNumber	Integer9	Unique number associated with the Workflow Event.	Optional
SequenceNumber	Integer3	This is the sequence number of the Workflow Event.	Mandatory
EventTypeCode	String4	The specific Event Type configured in CMP associated to the Workflow Event to be raised.	Mandatory
EventCode	String4	The specific Event Code configured in CMP associated to the Workflow Event to be raised.	Mandatory
EventStatus	String	The current status of the Workflow Event.	Mandatory

2. 18. 5QueryWorkflows

The QueryWorkflows web service enables an external client system to retrieve a list of Workflow Events that have been raised against a particular Subscription, Account, Corporate or Group within CMP.

The user must pass in a valid CMP Subscription Number, Account Number, Corporate Code, Group Code, or Agreement Number in order to retrieve a list of Workflow Events for that entity. Basic information only is returned - this does not include Actions, Correspondence, Assignments and so on.

The most recent Workflow Events created are returned first. The order is as follows:

- Date Created - Descending.
- Time Created - Descending.

Filter options within the web service request enable 'open', 'resolved', or 'cancelled' Workflow Events to be selected, along with either the Type and Code or the Resolution Date.

A maximum is applied to the number of Workflow Events that can be returned in a single web service call. If this limit is exceeded, the maximum number of records is still returned but the user is notified that the limit has been reached.

Submission of invalid data for the above criteria results in an error message.

2.18.5.1 QueryWorkflow Request

The QueryWorkflows tag instructs the Workflow Service to query CMP for Workflow Events. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
CustomerLevel	String	Choice of one of the following elements: • GroupIdentifier • CorporateIdentifier • AccountIdentifier • SubscriptionIdentifier • AgreementIdentifier	Mandatory
CustomerLevelReference	String8	The appropriate unique reference for the CustomerLevel selected. For example: Subscription Number, Agreement Number, Corporate Code, Group Code or Account Number.	Mandatory
StatusFilter	String	Choice of: • ALL • OPEN • RESOLVED • CANCELLED	Mandatory
DataFilter	Container	See DataFilter request container for details.	Mandatory

2.18.5.2 DataFilter Request Container

The DataFilter request container has the following elements:

Element Name	Content Type	Description	Required?
EventTypeCode	String4	The specific event type associated with the event raised.	Optional
EventCode	String4	The description generated by the event code.	Optional
ResolutionRequiredByDateOnOrBefore	Date	The date by which the event must be resolved or the date when the event must be processed. YYYY-MM-DDZ	Optional

2.18.5.3 QueryWorkflows Response

The QueryWorkflows response is the response to the QueryWorkflows request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
QueryLimitExceeded	Boolean	The CMP query web services can impose a configurable limit on the amount of data that can be returned by a query.	Mandatory
Workflows	Container	See Workflows response container for details.	Mandatory

Workflows Response Container

The Workflows response container has the following elements:

Element Name	Content Type	Description	Required?
Workflow	Container	See Workflow response container for details.	Optional

2.18.5.4 Workflow Response Container

The Workflow response container has the following elements:

Element Name	Content Type	Description	Required?
EventNumber	Integer9	Unique number associated with the Workflow Event.	Mandatory
EventStatus	String	The current status of the Workflow Event. One of: • PROCESS • CANCEL • RESOLVE	Optional
EventType	String4	The specific Event Type configured in CMP associated to the Workflow Event to be raised.	Mandatory
EventCode	String4	The specific Event Code configured in CMP associated to the Workflow Event to be raised.	Mandatory
AdjustmentAmount	Currency	Returns the total Sales Ledger Adjustment amount for events created on an Account only. • Min Inclusive: -999999999.99 • Max Inclusive: 999999999.99	Optional
CurrentUserId	String	The User ID of the person who last updated the record.	Optional
CreatedDate	DateTime	Workflow Event creation date. YYYY-MM-DDThh:mm:ssZ	Mandatory
LastAmendedDate	DateTime	YYYY-MM-DDThh:mm:ssZ	Optional

2. 18. 6QueryWorklist

The QueryWorklist web service accepts a CMP User ID and returns a list of all the open Workflow Events on that user's Worklist. Workflow Events are returned in ascending order of Resolve By Date/Time.

A query limit is configured for the web service as per standard CMP web service configuration.

2.18.6.1 QueryWorklist Request

The QueryWorklist tag instructs the Workflow Service to query CMP for a specific user's Worklist. This request contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	The client may use this identifier to correlate the request and the response.	Optional
UserID	String10	The CMP user or department to whom the Work-flow Event has been or is to be sent.	Mandatory

2.18.6.2 QueryWorklist Response

The QueryWorklist response is the response to the QueryWorklist request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
WorklistItems	Container	See WorklistItem response container for details.	Mandatory
QueryLimitExceeded	Boolean	The CMP query web services can impose a configurable limit on the amount of data that can be returned by a query.	Mandatory

WorklistItems Response Container

The WorklistItems response container has the following elements:

Element Name	Content Type	Description	Required?
WorklistItem	Container	See WorklistItem response container for details.	Optional

WorklistItem Response Container

The WorklistItem response container has the following elements:

Element Name	Content Type	Description	Required?
EventNumber	Integer9	Unique number associated with the workflow event.	Mandatory
TargerIdentifier	Container - Choice	One of the following elements: Group Identifier (String6) Corporate Identifier (String6) Account Identifier (Integer8) Subscription Identifier (Integer8) Mobile Number (String25)	Mandatory
EventType	String4	The specific Event Type configured in CMP associated to the Workflow Event to be raised.	Mandatory
EventCode	String4	The specific Event Code configured in CMP associated to the Workflow Event to be raised.	Mandatory
EventStatus	String	The current status of the workflow event (e.g. 'Cancelled', etc.).	Mandatory
CreatedByUserId	String10	The date on which the event was created by the user.	Optional
CreatedDate	DateTime	YYYY-MM-DDThh:mm:ssZ Workflow creation date	Optional
PassToUserId	String10	Unique user ID for the Network Operator, Department or Customer Services Representative (CSR) to whom the event has been or is to be sent.	Optional
PassedToDate	DateTime	The date on which the event was passed to the current user.	Optional
ResolutionRequiredByDate	DateTime	The date by which the event must be resolved or the date when the event must be processed. This field contains a drop-down calendar to aid date selection, if required.	Mandatory
LastAmendedDate	DateTime	YYYY-MM-DDThh:mm:ssZ	Optional

2. 18. 7UpdateWorkflow

The UpdateWorkflow web service enables an external client system to change a CMP Workflow Event, appending note lines and/or modifying the status of the Workflow Event.

2.18.7.1 UpdateWorkflow Request

The UpdateWorkflow tag instructs the Workflow Service to update the Workflow Event. This request contains the following elements:

Element Name	Content Type	Description	Required?
UpdateData	Container	This tag instructs the Workflow Service to update a Workflow Event. Contains: - UpdateWorkflowData - ExternalReference See UpdateWorkflow request container.	Mandatory

2. 18. 8UpdateData Request Container

The UpdateData request container has the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional
UpdateWorkflowData	Container	See UpdateWorkflowData Request Container for details.	Mandatory

2.18.8.1 UpdateWorkflowData Request Container

The UpdateWorkflowData request container has the following elements:

Element Name	Content Type	Description	Required?
WorkflowNumber	Integer9	Unique number associated with the Workflow Event.	Mandatory
EventStatus	String	Choice of: - PROCESS - CANCEL - RESOLVE	Optional
ProcessCommand	String	Choice of: - Suppress - Yes - No	Mandatory
ProcessDate	Date	The date on which the Workflow Event is processed. YYYY-MM-DD	Optional
ProcessDateTime	Date Time	The date and time on which the Workflow Event is processed. YYYY-MM-DDThh:mm:ss If a value is supplied, this overrides the value for ProcessDate.	Optional
ProcessBackDate	Date	YYYY-MM-DDZ	Optional
ContactInformation	String	This contains details of the person within the customer's organisation who manages the account.	Optional
TelephoneNumber	String15	The contact's telephone number.	Optional
ResolutionRequiredByDate	String	A description of how the Workflow Event is to be resolved.	Optional
ResolutionRequiredByDateTime	Date Time	The date and time by which the Workflow Event must be resolved or the date and time when the Workflow Event must be processed. YYYY-MM-DDThh:mm:ss	Optional

Element Name	Content Type	Description	Required?
		If no value is supplied, this defaults to midnight. If a value is supplied, it overrides the value for ResolutionRequiredByDate	
ReasonCode	String4	The reason the Workflow Event was raised. For example, customer request.	Optional
PassToUserId	String	Unique User ID for the Network Operator, Department or Customer Services Representative to whom the Workflow Event has been or is to be sent.	Optional
IncludeNotesDefault	Boolean	Set to 'true' if the Notes are included on the Workflow Event by default.	Optional
Notes	String	Any specific Workflow Event Notes to be updated on the Workflow Event.	Optional
BillImmediately	Boolean	Only has an effect if processing the Workflow Event and it has Sales Ledger Adjustment Lines. Otherwise, this is ignored.	Optional
InvoiceConsolidationAgreement	Integer8	Only has an effect if processing the Workflow Event and it has Sales Ledger Adjustment Lines. Otherwise, this is ignored.	Optional

2.18.8.2 UpdateWorkflow Response

The UpdateWorkflow response is the response to the UpdateWorkflow request. This contains the following elements:

Element Name	Content Type	Description	Required?
ExternalReference	String69	Returned unmodified in the response. The client may use this identifier to correlate the request and the response.	Optional