



External API Documentation

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1. Document Change History

Version	Date	Description	Author
0.20	30/06/2014	Added Automated Payment Configuration. Update testing environment to https://external-prerelease.emersino.com.au	Emo Darwin
0.19	26/06/2014	Update Create Payment Output Attribute Description	Emo Darwin
0.18	24/06/2014	Adding Error String	Emo Darwin / Martin Edge
0.17	16/06/2014	Tokenise Credit Card Take Payment	Emo Darwin
0.16	07/04/2014	Update to Minimal – new request added called GetContactByAccountAndType Update to Services – new request added called getServiceDetailsByServiceIdentifierAndServiceTypeId	Shridhar Joglekar
0.15	09/04/2014	Corrections to existing documentation. Added: serviceLookup serviceDetail telephonyCallHistory serviceList invoicesByAccount getInvoiceDetail getInvoiceById	Chris Petersen
0.14	20/03/2014	Update missing account type in create account minimal.	Emo Darwin
0.12	16/10/2013	Updates to Services – CreateAccountDiscountSubscription, GetAccountDiscountPlans, CancelAccountDiscountSubscription, GetAccountDiscountSubscriptions, GetCapCurrentStatus	Anna Sulinadzhieva
0.11	19/04/2013	Updated the AAPT endpoint to have a more flexible and useful reply attribute	Matthew Hallsworth
0.10	04/04/2013	Updated the functionality and instructions for CreateSession call in Userportal API	Matthew Hallsworth
0.9	26/03/2013	Added CreatePayment to the RetailServices endpoint.	Matthew Hallsworth
0.8	21/02/2013	Modified return value of CreateLedgerCardline to	Matthew Hallsworth

		provide the cardline ID. Added reference to how profiles are handled in the CreateAccount routine.	
0.7	31/01/2013	Added retail services section and information on the CreateLedgerCardline API function	Matthew Hallsworth
0.6	09/01/2013	Services CreateAccount (section 5.2.1) updated to use available Country and State from list of countries and states that are supported by this CreateAccount and UpdateAccount functionality	Shridhar Joglekar
0.4	22/11/2012	Updates to Services CreateAccount and UpdateAccount	Shridhar Joglekar
0.3	22/11/2012	Updates for interfaces and language	Matthew Hallsworth
0.2	16/10/2012	Updates for interfaces and language	Matthew Hallsworth
0.1	09/03/2012	First Draft	Martin Edge

2. Introduction

2.1 Purpose

The purpose of this document is to provide documentation on how to use the Emersion API Layer.

2.2 Audience

The intended audience of this document includes (but not limited to):

- Emersion CEO;
- Emersion Business Analysts and Project Managers; and
- Emersion Software Engineers.
- Clients

3. Solution Introduction

Emersion has implemented an External API Framework Layer to assist in clients integrating directly into parts of the Emersion Eco-System.

Most additions to the framework to date have been directly from client requests, and Emersion is able to extend or add new functionality on a case by case and quoted basis.

For a quote on a solution to fit your requirement, please contact the Emersion Sales team.

For an individual or business looking to work with our API layer, we can recommend the freeware software Soap UI to perform testing and gain guidance on operations contained within the API.

This software allows you to view the methods contained within the API and send and receive test calls to the API without having to write a system.

4. Security Layer

To integrate with Emersion's API Framework, clients will need to implement a SOAP Client, utilising SSL certificate as security. The SSL certificates are provided by Emersion, and may be subject to a professional services charge depending on your Emersion agreement.

The WSDL for each set of functions is documented in the next section.

For production, use; <https://external.emersion.com.au/>

For testing, use; <https://external-prerelease.emersion.com.au/>

NOTE: Please contact Emersion before you begin testing on Pre-Release to ensure the environment is stable and not using any test code.

5. Available Functions

Below is a list of the available functions within the Emersion API Framework.

5.1 Minimal

The first set of web services released by Emersion for Integration by clients, it was the 'minimal' set of services to get up and going, and thus the name. Due to backwards compatibility with anyone using the services, it will remain as 'Minimal', even though there is nothing minimal about it.

Account type is inserted based on the parent account type:

- Wholesale Account will create Service Provider Account Type.
- Service Provider Account and Agent Account will create End User Account Type.
- End User and Engineering account are not allowed to create new account.
- Emersion Account is not currently supported because the account has the capability of creating 2 different types of account which are wholesale and service provider.

The WSDL is at <https://external-prerelease.emersion.com.au/Minimal.wsdl>

5.1.1 CreateAccount

Purpose

Create a new account as a child of the callers account.

Inputs

```
<soapenv:Envelope xmlns:soapenv=http://schemas.xmlsoap.org/soap/envelope/ xmlns:umb="http://emersion.com.au/Umbrella">
  <soapenv:Header/>
  <soapenv:Body>
    <umb:MinimalAccount>
      <!--Optional:-->
      <umb:id?></umb:id>
      <!--Optional:-->
      <umb:Name?></umb:Name>
      <umb:PrimaryContact>
        <!--Optional:-->
        <umb:id?></umb:id>
        <umb:FirstName?></umb:FirstName>
        <umb:LastName?></umb:LastName>
        <umb:PrimaryEmail?></umb:PrimaryEmail>
        <!--Optional:-->
        <umb:MobileNumber?></umb:MobileNumber>
        <!--Optional:-->
        <umb>UserPortalLogin>
          <umb:Username?></umb:Username>
          <!--Optional:-->
          <umb>Password?></umb>Password>
        </umb>UserPortalLogin>
      </umb:PrimaryContact>
      <!--Optional:-->
      <umb:ReferralName?></umb:ReferralName>
    </umb:MinimalAccount>
  </soapenv:Body>
</soapenv:Envelope>
```

Example Validation Error

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring>Validation Error</faultstring>
      <faultactor>http://emersion.com.au/Minimal</faultactor>
      <detail>UserPortalLogin Username does not contain "@"</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Outputs

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/Minimal">
  <SOAP-ENV:Body>
    <ns1:CreateAccountResponse>
      <AccountID>249795</AccountID>
    </ns1:CreateAccountResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Account Id is required field
- Invalid Account Id
- Invalid Contact Type requested.'.\$msg
- You do not own this account

5.1.2 GetServicesByServiceType

Purpose

Retrieve all services owned by the accounts of which are the callers direct children.

Inputs

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:min="http://emersion.com.au/Minimal">
  <soapenv:Header/>
  <soapenv:Body>
    <min:GetServicesByServiceTypeId>61</min:GetServicesByServiceTypeId>
  </soapenv:Body>
</soapenv:Envelope>
```

Outputs

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/Umbrella">
  <SOAP-ENV:Body>
    <ns1:GetServicesByServiceTypeResponse>
      <ns1:services>
        <ns1:username>0290909090</ns1:username>
        <ns1:password>xxxxx</ns1:password>
        <ns1:realm_name>adsl.xxxxxx.net.au</ns1:realm_name>
        <ns1:realm_id>16</ns1:realm_id>
        <ns1:identifier_last_modified>2010-04-07 14:05:52</ns1:identifier_last_modified>
        <ns1:service_last_modified>2010-04-07 14:05:52</ns1:service_last_modified>
      </ns1:services>
      <ns1:services>
        <ns1:username>0266660000</ns1:username>
        <ns1:password>xxxxxx</ns1:password>
        <ns1:realm_name>adsl.xxxxxx.net.au</ns1:realm_name>
        <ns1:realm_id>16</ns1:realm_id>
        <ns1:identifier_last_modified>2010-04-07 14:06:18</ns1:identifier_last_modified>
        <ns1:service_last_modified>2010-04-07 14:06:18</ns1:service_last_modified>
      </ns1:services>
      <ns1:services>
        <ns1:username>0399999990</ns1:username>
        <ns1:password>xxxx</ns1:password>
        <ns1:realm_name>adsl.xxxxxx.net.au</ns1:realm_name>
        <ns1:realm_id>16</ns1:realm_id>
        <ns1:identifier_last_modified>2010-04-07 14:06:34</ns1:identifier_last_modified>
        <ns1:service_last_modified>2010-04-07 14:06:34</ns1:service_last_modified>
      </ns1:services>
    </ns1:GetServicesByServiceTypeResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid Service Type Id

5.1.3 GetXMLAccountSummary

Purpose

Retrieve Account Summary for a given account (one of the callers children accounts.)

Inputs

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:min="http://emersion.com.au/Minimal">
  <soapenv:Header/>
  <soapenv:Body>
    <min:GetXMLAccountSummaryRequestId>111111</min:GetXMLAccountSummaryRequestId>
  </soapenv:Body>
</soapenv:Envelope>
```

Outputs

Please note the output has XML data encapsulated in CDATA. Extract XML data out and load into your favourite DOM parser.

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/Minimal">
  <SOAP-ENV:Body>
    <ns1:GetXMLAccountSummaryResponse>
      <![CDATA[ <!-- data goes here - Please see attached file for more information --> ]]>
    </ns1:GetXMLAccountSummaryResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Where the contents of the CDATA are shown in the below example:

Example:

```
<?xml version="1.0" encoding="UTF-8"?>
<account id="111534" CustomerName="James Jones Pty Ltd T/A APC Cars"
endOfCurrentInvoicePeriod="2012-04-01 00:00:00" accountBalanceTotal="$0.00"
accountBalanceTax="$0.00" accountBalanceExTax="$0.00">
  <accountInvoices>
    <invoice id="283505" invoiceStart="2012-01-01 00:00:00" invoiceEnd="2012-01-01
00:00:00" totalGst="$0.00" totalExGst="$0.00" total="$0.00" outstandingTax="$0.00"
outstandingExTax="$0.00" outstanding="$0.00" DueDate="2010-03-01 00:00:00"/>
  </accountInvoices>
  <packageSubscriptions>
    <packageSubscription id="208315" subscriptionStatus="Active"
subscriptionStatusId="2" packagePlanId="102645" packagePlanName="Domain Licence
fee .org.au" startDate="2010-01-01 00:00:00" endDate=""
currentPeriodEndDate="2012-03-09 11:04:01" currentPeriodStartDate="2012-03-09
11:04:01">
      <serviceAllowances>
        <serviceAllowance serviceTypeId="30" serviceTypeName="Domain
Registration" servicePlanName="Domain Licence fee .org.au (2
Years)" totalAllowed="0" totalUsed="1" mandatory="1"/>
      </serviceAllowances>
      <service_subscriptions>
        <service_subscription id="235044" servicePlanId="103614"
servicePlanName="Domain Licence fee .org.au (2 Years)"
serviceTypeName="Domain Registration"
serviceIdentifier="someplace.org.au" serviceId="174703"
subscriptionStatusId="2" subscriptionStatus="Active"
startDate="2010-01-01 00:00:00" endDate=""
currentPeriodEndDate="2013-08-21 00:00:00"
currentPeriodStartDate="2011-08-21 00:00:00"/>
      </service_subscriptions>
    </packageSubscription>
    <packageSubscription id="206017" subscriptionStatus="Active"
subscriptionStatusId="2" packagePlanId="102401" packagePlanName="ADSL 2+ surf Mk5
10Gb" startDate="2008-08-30 00:00:00" endDate="" currentPeriodEndDate="2012-03-09
11:04:01" currentPeriodStartDate="2012-03-09 11:04:01">
      <serviceAllowances>
        <serviceAllowance serviceTypeId="31" serviceTypeName="Datafast
ADSL2" servicePlanName="ADSL 2+ surf Mk5 10Gb" totalAllowed="0"
totalUsed="1" mandatory="1"/>
        <serviceAllowance serviceTypeId="15" serviceTypeName="M2 Dialup"
servicePlanName="Dial-Up access enabled for username"
totalAllowed="0" totalUsed="1" mandatory="0"/>
      </serviceAllowances>
      <service_subscriptions>
        <service_subscription id="222131" servicePlanId="103399"
servicePlanName="ADSL 2+ surf Mk5 10Gb" serviceTypeName="Datafast ADSL2"
serviceIdentifier="0395328129@xyz.net.au" serviceId="172239"
subscriptionStatusId="2" subscriptionStatus="Active" startDate="2008-08-30
00:00:00" endDate="" currentPeriodEndDate="" currentPeriodStartDate=""/>
        <service_subscription id="222138" servicePlanId="103505"
servicePlanName="Dial-Up access enabled for username" serviceTypeName="M2
Dialup" serviceIdentifier="0395328129@adsl.xyz.net.au" serviceId="172240"
subscriptionStatusId="2" subscriptionStatus="Active" startDate="2008-08-30
00:00:00" endDate="" currentPeriodEndDate="" currentPeriodStartDate=""/>
        <service_subscription id="222131" servicePlanId="103399"
servicePlanName="ADSL 2+ surf Mk5 10Gb" serviceTypeName="Datafast ADSL2"
serviceIdentifier="0395328129" serviceId="172239" subscriptionStatusId="2"
subscriptionStatus="Active" startDate="2008-08-30 00:00:00" endDate=""
currentPeriodEndDate="" currentPeriodStartDate=""/>
      </service_subscriptions>
    </packageSubscription>
  </packageSubscriptions>
</account>
```

Error String:

- Invalid Account Id
- You do not own this account

5.1.4 GetContactByAccountAndType

Purpose

Retrieve account contacts by account id. Optionally get based on contact type (by 'Primary' or 'Billing') or specific contact id

Note: to get both contacts type (ContactTypeName) either leave blank or use 'Any'.

Inputs

AccountID : required

ContactTypeName : optional (if used accepted values are Primary or Billing or Any

ContactId: optional

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:min="http://external.emersion.com.au/Minimal">
<soapenv:Header/>
  <soapenv:Body>
    <min:GetContactByAccountAndTypeRequest>
      <AccountID>657996</AccountID>
      <!--Optional:-->
      <ContactTypeName></ContactTypeName>
      <!--Optional:-->
      <ContactId></ContactId>
    </min:GetContactByAccountAndTypeRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://external.emersion.com.au/Minimal">
  <SOAP-ENV:Body>
    <ns1:GetContactByAccountAndTypeResponse>
      <contactList>
        <![CDATA[<?xml version="1.0"?><contacts><contactType
typeName="Primary"><contact firstName="Jack" middleName=""
lastName="Casonato" jobTitle="" dateOfBirth="" driverLicense=""
secretAnswer1="" secretAnswer2="" phonePassword="" doNotCall=""
doNotEmail="" parentType="" parentId="0" accountUploadSource=""
accountUploadSourceRef="" accessPassword="" dependent=""
crmExportRef="" id="363104" emailAddress="jack@casonato.com.au"
contactSalutation="MR"><phoneNumbers><phoneNumber
number="0390234903" extension="" parentType="4" parentId="363104"
crmExportRef=""
phoneType="MainPhone"/></phoneNumbers><physicalAddresses><physicalA
dress addressTypeNumber="" streetName="" streetNumberStart=""
streetNumberEnd="" streetLotNumber="" suburb="Carlton"
postcode="3053" addressComplexUnitNumber=""
addressComplexLevelNumber="" addressSiteName=""
addressBuildingName="" addressSiteLocation="" addressLine1="Level
2" addressLine2="88 Pelham Street" addressPostalDeliveryNumber=""
parentType="4" parentId="363104" addressPhysicalStateOther=""
dateFrom="" dateTo="" crmExportRef="" id="372132"
simpleFullAddressLine=", Carlton VIC 3053 Australia"
simpleAddressLine1="" addressPhysicalState="Victoria"
addressDisplayType="Unstructured Address"
country="Australia"/></physicalAddresses><object_properties/></cont
act></contactType><contactType typeName="Billing"><contact
firstName="Joanne" middleName="" lastName="Casonato" jobTitle=""
dateOfBirth="" driverLicense="" secretAnswer1="" secretAnswer2=""
phonePassword="" doNotCall="" doNotEmail="" parentType=""
parentId="0" accountUploadSource="" accountUploadSourceRef=""
accessPassword="" dependent="" crmExportRef="" id="363105"
emailAddress="joanne@casonato.com.au"><phoneNumbers><phoneNumber
number="0390234903" extension="" parentType="4" parentId="363105"
crmExportRef=""
phoneType="MainPhone"/></phoneNumbers><physicalAddresses><physicalA
dress addressTypeNumber="" streetName="" streetNumberStart=""
streetNumberEnd="" streetLotNumber="" suburb="Carlton"
postcode="3053" addressComplexUnitNumber=""
addressComplexLevelNumber="" addressSiteName=""
addressBuildingName="" addressSiteLocation="" addressLine1="Level
2" addressLine2="88 Pelham Street" addressPostalDeliveryNumber=""
parentType="4" parentId="363105" addressPhysicalStateOther=""
dateFrom="" dateTo="" crmExportRef="" id="372133"
simpleFullAddressLine=", Carlton VIC 3053 Australia"
simpleAddressLine1="" addressPhysicalState="Victoria"
addressDisplayType="Unstructured Address"
country="Australia"/></physicalAddresses><object_properties/></cont
act></contactType></contacts>]]>
      </contactList>
    </ns1:GetContactByAccountAndTypeResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Services

The 'Services' section of the Emersion API layer primarily contains account management and point of sale based functions.

This contains an extended create customer interface, an update customer interface, and a way to do very simple point of sale transactions via the API. The WSDL is at <https://external-prerelease.emersion.com.au/Services.wsdl>

5.1.5

CreateAccount

Purpose

Create a new account as a child of the callers account. This is a slightly more complex version than the one in Minimal.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:CreateComplexAccount>
      <!--Optional:-->
      <ser:LicenceeUsername?></ser:LicenceeUsername>
      <ser:AccountType?></ser:AccountType>
      <ser:PrimaryContact>
        <ser:Detail>
          <ser>Title?></ser>Title>
          <ser:FirstName?></ser:FirstName>
          <ser:LastName?></ser:LastName>
          <ser:AddressLine1?></ser:AddressLine1>
          <!--Optional:-->
          <ser:AddressLine2?></ser:AddressLine2>
          <!--Optional:-->
          <ser:AddressLine3?></ser:AddressLine3>
          <ser:Suburb?></ser:Suburb>
          <ser:State?></ser:State>
          <ser:Postcode?></ser:Postcode>
          <ser:Country?></ser:Country>
          <ser:EmailAddress?></ser:EmailAddress>
          <ser:PhoneNumber?></ser:PhoneNumber>
          <!--Optional:-->
          <ser:MobileNumber?></ser:MobileNumber>
          <!--Optional:-->
          <ser:FaxNumber?></ser:FaxNumber>
          <!--Optional:-->
          <ser:Website?></ser:Website>
        </ser:Detail>
        <ser:CumulusUser>
          <ser:UserName?></ser:UserName>
          <ser>Password?></ser>Password>
        </ser:CumulusUser>
      </ser:PrimaryContact>
      <ser:AccountContactType>
        <ser:Type?></ser:Type>
      </ser:AccountContactType>
      <!--Optional:-->
      <ser:AccountOrganisation>
        <!--Optional:-->
        <ser:OrgName?></ser:OrgName>
        <!--Optional:-->
        <ser:OrgTradingName?></ser:OrgTradingName>
        <!--Optional:-->
        <ser:OrgType?></ser:OrgType>
        <!--Optional:-->
        <ser:OrgIdentifier?></ser:OrgIdentifier>
        <!--Optional:-->
        <ser:OrgIdentifierType?></ser:OrgIdentifierType>
      </ser:AccountOrganisation>
      <!--Optional:-->
      <ser:BillingContact>
        <ser:Detail>
          <ser>Title?></ser>Title>
          <ser:FirstName?></ser:FirstName>
          <ser:LastName?></ser:LastName>
          <ser:AddressLine1?></ser:AddressLine1>
          <!--Optional:-->
          <ser:AddressLine2?></ser:AddressLine2>
          <!--Optional:-->
          <ser:AddressLine3?></ser:AddressLine3>
          <ser:Suburb?></ser:Suburb>
          <ser:State?></ser:State>
          <ser:Postcode?></ser:Postcode>
          <ser:Country?></ser:Country>
          <ser:EmailAddress?></ser:EmailAddress>
          <ser:PhoneNumber?></ser:PhoneNumber>
          <!--Optional:-->
          <ser:MobileNumber?></ser:MobileNumber>
          <!--Optional:-->
          <ser:FaxNumber?></ser:FaxNumber>
          <!--Optional:-->
          <ser:Website?></ser:Website>
        </ser:Detail>
      </ser:BillingContact>
      <!--Optional:-->
      <ser:AccountReference?></ser:AccountReference>
    </ser:CreateComplexAccount>
  </soapenv:Body>
</soapenv:Envelope>
```

Important notes:

- AccountType needs to be 'End User'
- CumulusUser-Username has to be the fully qualified domain name i.e. username@domain.com.au
- CumulusUser-Password needs to be a minimum of 6 characters
- AccountContactType needs to be Either 'Individual' or 'Organisation'. In case of 'Organisation' 'Org' can be used as alternative option.
- OrgIdentifierType needs to be one of 'ABN', 'ACN', 'RBN' or 'TFN'
- OrgIdentifier is the value attached to the type. i.e. for 'ABN' you would put your ABN number here.
- Account reference will be stored against the account as an optional piece of text.
- This will automatically place the default account profile of your SP against the account. If you need a non-default profile, this will need to be managed manually via the Cumulus interface.
- OrgType is an integer value and can accept any of the below. If not given default will be 29 'Company'

OrgType ID	Name
1	Pty Ltd
2	Ltd
3	Sole Proprietor
4	Family partnership
5	Other partnership
6	NL
7	Pty
9	Trust
10	Trustee
11	Co-op
12	Charity
13	Club
14	Union
15	Other - Private
16	Govt - Federal
22	Govt - State
26	Govt - Local
28	Govt - Other
29	Co
30	Inc
99	“ “ for Not Stated Types

- BillingContact is optional. If BillingContact - Detail - Title value is given then script will check all fields and will add Billing Contact.
- Country and State needs to be a text value from either name or code.

- Currently only Australian STATES are supported
- In case of any other country please use 'Other' or 'oth' as a state value
- Currently there is no country based state input validation
- Available list of countries and states are as below
- State List:

NAME	INDUSTRY_CODE
Victoria	VIC
New South Wales	NSW
Queensland	QLD
Western Australia	WA
South Australia	SA
Tasmania	TAS
Australian Capital Territory	ACT
Northern Territory	NT
Australian Antarctic Territory	AAT
Other	OTH

- Country List:

NAME	ISO3166 3CHAR CODE	ISO3166 2CHAR CODE
Aruba	ABW	AW
Afghanistan	AFG	AF
Angola	AGO	AO
Anguilla	AIA	AI
Aland Islands	ALA	AX
Albania	ALB	AL
Andorra	AND	AD
Netherlands Antilles	ANT	AN
United Arab Emirates	ARE	AE
Argentina	ARG	AR
Armenia	ARM	AM
American Samoa	ASM	AS
Antarctica	ATA	AQ
French Southern Territories	ATF	TF
Antigua and Barbuda	ATG	AG
Australia	AUS	AU
Austria	AUT	AT
Azerbaijan	AZE	AZ
Burundi	BDI	BI
Belgium	BEL	BE
Benin	BEN	BJ

NAME	ISO3166 3CHAR CODE	ISO3166 2CHAR CODE
Lao People's Democratic Republic	LAO	LA
Lebanon	LBN	LB
Liberia	LBR	LR
Libyan Arab Jamahiriya	LBY	LY
Saint Lucia	LCA	LC
Liechtenstein	LIE	LI
Sri Lanka	LKA	LK
Lesotho	LSO	LS
Lithuania	LTU	LT
Luxembourg	LUX	LU
Latvia	LVA	LV
Macao	MAC	MO
Saint Martin (French part)	MAF	MF
Morocco	MAR	MA
Monaco	MCO	MC
Moldova, Republic Of	MDA	MD
Madagascar	MDG	MG
Maldives	MDV	MV
Mexico	MEX	MX
Marshall Islands	MHL	MH
Macedonia, the Former Yugoslav Republic Of	MKD	MK

Burkina Faso	BFA	BF
Bangladesh	BGD	BD
Bulgaria	BGR	BG
Bahrain	BHR	BH
Bahamas	BHS	BS
Bosnia and Herzegovina	BIH	BA
Saint Barthelemy	BLM	BL
Belarus	BLR	BY
Belize	BLZ	BZ
Bermuda	BMU	BM
Bolivia	BOL	BO
Brazil	BRA	BR
Barbados	BRB	BB
Brunei Darussalam	BRN	BN
Bhutan	BTN	BT
Bouvet Island	BVT	BV
Botswana	BWA	BW
Central African Republic	CAF	CF
Canada	CAN	CA
Cocos (Keeling) Islands	CCK	CC
Switzerland	CHE	CH
Chile	CHL	CL
China	CHN	CN
Cote D'Ivoire	CIV	CI
Cameroon	CMR	CM
Congo, The Democratic Republic Of The	COD	CD
Congo	COG	CG
Cook Islands	COK	CK
Colombia	COL	CO
Comoros	COM	KM
Cape Verde	CPV	CV
Costa Rica	CRI	CR
Cuba	CUB	CU
Christmas Island	CXR	CX
Cayman Islands	CYM	KY
Cyprus	CYP	CY
Czech Republic	CZE	CZ
Germany	DEU	DE
Djibouti	DJI	DJ
Dominica	DMA	DM
Denmark	DNK	DK
Dominican Republic	DOM	DO
Algeria	DZA	DZ
Ecuador	ECU	EC
Egypt	EGY	EG

Mali	MLI	ML
Malta	MLT	MT
Myanmar	MMR	MM
Montenegro	MNE	ME
Mongolia	MNG	MN
Northern Mariana Islands	MNP	MP
Mozambique	MOZ	MZ
Mauritania	MRT	MR
Montserrat	MSR	MS
Martinique	MTQ	MQ
Mauritius	MUS	MU
Malawi	MWI	MW
Malaysia	MYS	MY
Mayotte	MYT	YT
Namibia	NAM	NA
New Caledonia	NCL	NC
Niger	NER	NE
Norfolk Island	NFK	NF
Nigeria	NGA	NG
Nicaragua	NIC	NI
Niue	NIU	NU
Netherlands	NLD	NL
Norway	NOR	NO
Nepal	NPL	NP
Nauru	NRU	NR
New Zealand	NZL	NZ
Oman	OMN	OM
Pakistan	PAK	PK
Panama	PAN	PA
Pitcairn	PCN	PN
Peru	PER	PE
Philippines	PHL	PH
Palau	PLW	PW
Papua New Guinea	PNG	PG
Poland	POL	PL
Puerto Rico	PRI	PR
Democratic People's Republic Of Korea	PRK	KP
Portugal	PRT	PT
Paraguay	PRY	PY
Palestinian Territory, Occupied	PSE	PS
French Polynesia	PYF	PF
Qatar	QAT	QA
Reunion	REU	RE
Romania	ROU	RO
Russian Federation	RUS	RU

Eritrea	ERI	ER
Western Sahara	ESH	EH
Spain	ESP	ES
Estonia	EST	EE
Ethiopia	ETH	ET
Finland	FIN	FI
Fiji	FJI	FJ
Falkland Islands (Malvinas)	FLK	FK
France	FRA	FR
Faroe Islands	FRO	FO
Micronesia, Federated States Of	FSM	FM
Gabon	GAB	GA
United Kingdom	GBR	GB
Georgia	GEO	GE
Guernsey	GGY	GG
Ghana	GHA	GH
Gibraltar	GIB	GI
Guinea	GIN	GN
Guadeloupe	GLP	GP
Gambia	GMB	GM
Guinea-Bissau	GNB	GW
Equatorial Guinea	GNQ	GQ
Greece	GRC	GR
Grenada	GRD	GD
Greenland	GRL	GL
Guatemala	GTM	GT
French Guiana	GUF	GF
Guam	GUM	GU
Guyana	GUY	GY
Hong Kong	HKG	HK
Heard and McDonald Islands	HMD	HM
Honduras	HND	HN
Croatia	HRV	HR
Haiti	HTI	HT
Hungary	HUN	HU
Indonesia	IDN	ID
Isle of Man	IMN	IM
India	IND	IN
British Indian Ocean Territory	IOT	IO
Ireland	IRL	IE
Iran (Islamic Republic Of)	IRN	IR
Iraq	IRQ	IQ
Iceland	ISL	IS
Israel	ISR	IL
Italy	ITA	IT

Rwanda	RWA	RW
Saudi Arabia	SAU	SA
Sudan	SDN	SD
Senegal	SEN	SN
Singapore	SGP	SG
South Georgia and the South Sandwich Islands	SGS	GS
Saint Helena	SHN	SH
Svalbard And Jan Mayen	SJM	SJ
Solomon Islands	SLB	SB
Sierra Leone	SLE	SL
El Salvador	SLV	SV
San Marino	SMR	SM
Somalia	SOM	SO
Saint Pierre And Miquelon	SPM	PM
Sao Tome and Principe	STP	ST
Suriname	SUR	SR
Slovakia	SVK	SK
Slovenia	SVN	SI
Sweden	SWE	SE
Swaziland	SWZ	SZ
Seychelles	SYC	SC
Syrian Arab Republic	SYR	SY
Turks and Caicos Islands	TCA	TC
Chad	TCD	TD
Togo	TGO	TG
Thailand	THA	TH
Tajikistan	TJK	TJ
Tokelau	TKL	TK
Turkmenistan	TKM	TM
Timor-Leste	TLS	TL
Tonga	TON	TO
Trinidad and Tobago	TTO	TT
Tunisia	TUN	TN
Turkey	TUR	TR
Tuvalu	TUV	TV
Taiwan, Province Of China	TWN	TW
Tanzania, United Republic of	TZA	TZ
Uganda	UGA	UG
Ukraine	UKR	UA
United States Minor Outlying Islands	UMI	UM
Uruguay	URY	UY
United States	USA	US
Uzbekistan	UZB	UZ
Holy See (Vatican City State)	VAT	VA
Saint Vincent And The Grenedines	VCT	VC

Jamaica	JAM	JM
Jersey	JEY	JE
Jordan	JOR	JO
Japan	JPN	JP
Kazakhstan	KAZ	KZ
Kenya	KEN	KE
Kyrgyzstan	KGZ	KG
Cambodia	KHM	KH
Kiribati	KIR	KI
Saint Kitts And Nevis	KNA	KN
Korea, Republic of	KOR	KR
Kuwait	KWT	KW

Venezuela	VEN	VE
Virgin Islands, British	VGB	VG
Virgin Islands, U.S.	VIR	VI
Viet Nam	VNM	VN
Vanuatu	VUT	VU
Wallis and Futuna	WLF	WF
Samoa	WSM	WS
Yemen	YEM	YE
South Africa	ZAF	ZA
Zambia	ZMB	ZM
Zimbabwe	ZWE	ZW
Serbia		RS

Example Validation Error:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring>Validation Error</faultstring>
      <faultactor>http://emersion.com.au/Services</faultactor>
      <detail>Username does not contain "@"</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:CreateAccountResponse>
      <ns1:AccountID>399301</ns1:AccountID>
    </ns1:CreateAccountResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or Missing Account Type
- Invalid CumulusUser Username
- CumulusUser Username does not contain "@"
- CumulusUser Username contains an invalid suffix
- CumulusUser Username is already in use
- Missing AccountContactType. Type Value must be either 'Organisation' or 'Org' or 'Individual'
- Invalid AccountContactType. Type Value must be either 'Organisation' or 'Org' or 'Individual'

- Missing OrgName. When AccountContactType is 'Organisation' OrgName is required
- Invalid OrgType. If given OrgType value, then it must be a valid integer. Otherwise leave blank to set default value 29 for org type 'Company'
- \$contactType.: ' ' . 'Invalid or Missing Title
- \$contactType.: ' ' . 'Invalid or Missing First Name
- \$contactType.: ' ' . 'Invalid or Missing Last Name
- \$contactType.: ' ' . 'Invalid or Missing Address
- \$contactType.: ' ' . 'Invalid or Missing Suburb
- \$contactType.: ' ' . 'Invalid or Missing State
- \$contactType.: ' ' . 'Invalid or Missing Postcode
- \$contactType.: ' ' . 'Invalid or Missing Country
- \$contactType.: ' ' . 'Invalid or Missing Email Address
- \$contactType.: ' ' . 'Invalid or Missing Phone Number
- \$contactType.: ' ' . 'Invalid Website
- Invalid or Missing CumulusUser Username
- Invalid or Missing Password

5.1.6

UpdateAccount

Purpose

This allows you to update the primary contact details of an existing account. It is quite similar to creating an account only it has to be performed with existing end user accounts.

Please note that the same input rules from create account apply here with respect to account type, org information and org types.

Account ID is a mandatory field and must be supplied – it is the same account ID returned when creating an account.

Inputs:

```
<soapenv:Envelope xmlns:soapenv=http://schemas.xmlsoap.org/soap/envelope/
  xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:UpdateComplexAccount>
      <ser:AccountID?></ser:AccountID>
      <ser:AccountType?></ser:AccountType>
      <ser:PrimaryContact>
        <ser:Detail>
          <ser:Title?></ser:Title>
          <ser:FirstName?></ser:FirstName>
          <ser:LastName?></ser:LastName>
          <ser:AddressLine1?></ser:AddressLine1>
          <!--Optional:-->
          <ser:AddressLine2?></ser:AddressLine2>
          <!--Optional:-->
          <ser:AddressLine3?></ser:AddressLine3>
          <ser:Suburb?></ser:Suburb>
          <ser:State?></ser:State>
          <ser:Postcode?></ser:Postcode>
          <ser:Country?></ser:Country>
          <ser:EmailAddress?></ser:EmailAddress>
          <ser:PhoneNumber?></ser:PhoneNumber>
          <!--Optional:-->
          <ser:MobileNumber?></ser:MobileNumber>
          <!--Optional:-->
          <ser:FaxNumber?></ser:FaxNumber>
          <!--Optional:-->
          <ser:Website?></ser:Website>
        </ser:Detail>
        <ser:CumulusUser>
          <ser:UserName?></ser:UserName>
          <ser>Password?></ser>Password>
        </ser:CumulusUser>
      </ser:PrimaryContact>
      <ser:AccountContactType>
        <ser:Type?></ser:Type>
      </ser:AccountContactType>
      <!--Optional:-->
      <ser:AccountOrganisation>
        <!--Optional:-->
        <ser:OrgName?></ser:OrgName>
        <!--Optional:-->
        <ser:OrgTradingName?></ser:OrgTradingName>
        <!--Optional:-->
        <ser:OrgType?></ser:OrgType>
        <!--Optional:-->
        <ser:OrgIdentifier?></ser:OrgIdentifier>
        <!--Optional:-->
        <ser:OrgIdentifierType?></ser:OrgIdentifierType>
      </ser:AccountOrganisation>
      <!--Optional:-->
      <ser:BillingContact>
        <ser:Detail>
          <ser:Title?></ser:Title>
          <ser:FirstName?></ser:FirstName>
          <ser:LastName?></ser:LastName>
          <ser:AddressLine1?></ser:AddressLine1>
          <!--Optional:-->
          <ser:AddressLine2?></ser:AddressLine2>
          <!--Optional:-->
          <ser:AddressLine3?></ser:AddressLine3>
          <ser:Suburb?></ser:Suburb>
          <ser:State?></ser:State>
          <ser:Postcode?></ser:Postcode>
          <ser:Country?></ser:Country>
          <ser:EmailAddress?></ser:EmailAddress>
          <ser:PhoneNumber?></ser:PhoneNumber>
          <!--Optional:-->
          <ser:MobileNumber?></ser:MobileNumber>
          <!--Optional:-->
          <ser:FaxNumber?></ser:FaxNumber>
          <!--Optional:-->
          <ser:Website?></ser:Website>
        </ser:Detail>
      </ser:BillingContact>
      <!--Optional:-->
      <ser:AccountReference?></ser:AccountReference>
    </ser:UpdateComplexAccount>
  </soapenv:Body>
</soapenv:Envelope>
```

Example Validation Error:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring>Validation Error</faultstring>
      <faultactor>http://emersion.com.au/Services</faultactor>
      <detail>Invalid or Missing Account ID</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:UpdateAccountResponse>
      <ns1:Result>true</ns1:Result>
    </ns1:UpdateAccountResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or Missing Account Type
- Invalid or Missing Account ID
- Could not find Account ID!
- You do not have permission to modify this Account!
- Invalid CumulusUser Username
- CumulusUser Username does not contain "@"
- CumulusUser Username contains an invalid suffix
- CumulusUser Username is already in use
- Missing AccountContactType. Type Value must be either 'Organisation' or 'Org' or 'Individual'
- Invalid AccountContactType. Type Value must be either 'Organisation' or 'Org' or 'Individual'
- Missing OrgName. When AccountContactType is 'Organisation' OrgName is required
- Invalid OrgType. If given OrgType value, then it must valid integer. Otherwise leave blank to set default value 29 for org type 'Company'
- \$contactType.: ' '. 'Invalid or Missing Title
- \$contactType.: ' '. 'Invalid or Missing First Name
- \$contactType.: ' '. 'Invalid or Missing Last Name
- \$contactType.: ' '. 'Invalid or Missing Address
- \$contactType.: ' '. 'Invalid or Missing Suburb
- \$contactType.: ' '. 'Invalid or Missing State
- \$contactType.: ' '. 'Invalid or Missing Postcode

- \$contactType.: ' ' . 'Invalid or Missing Country
- \$contactType.: ' ' . 'Invalid or Missing Email Address
- \$contactType.: ' ' . 'Invalid or Missing Phone Number
- \$contactType.: ' ' . "Invalid Website
- Invalid or Missing CumulusUser Username
- Invalid or Missing Password

5.1.7 PurchaseProduct

Purpose

This method is used to create a product purchase on behalf of an existing client.

Inputs

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:PurchaseProducts>
      <ser:AccountID?</ser:AccountID>
      <ser:ShoppingCart>
        <!--1 to 999 repetitions-->
        <ser:PurchaseItem>
          <ser:ProductID?</ser:ProductID>
          <ser:Quantity?</ser:Quantity>
          <!--Optional:-->
          <ser:ExTaxPrice?</ser:ExTaxPrice>
          <!--Optional:-->
          <ser:Tax?</ser:Tax>
        </ser:PurchaseItem>
      </ser:ShoppingCart>
    </ser:PurchaseProducts>
  </soapenv:Body>
</soapenv:Envelope>
```

Important notes:

- ProductID needs to be the ID of the Product in the Emersion system
- Quantity has to be non-zero and an integer
- ExTaxPrice and Tax are floating point numbers however tax is optional – a sale can be tax free.

Example Validation Error:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring>Validation Error</faultstring>
      <faultactor>http://emersion.com.au/Services</faultactor>
      <detail>Invalid or Missing Account ID</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Output

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:PurchaseProductResponse>
      <ns1:AccountID>399301</ns1:AccountID>
      <ns1:InvoiceID/>
      <ns1:Cardlines/>
    </ns1:PurchaseProductResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or Missing Account ID
- Could not find Account ID!
- You do not have permission to modify this Account!
- No items have been provided to purchase in transaction.
- Cart item missing mandatory ProductID
- Cart item missing mandatory quantity
- Product purchase failed with an exception: '.\$e->getMessage();

5.1.8 CreateAccountDiscountSubscription

Purpose

This method is designed to allow the user a method to create an account discount subscription against their existing client.

Inputs

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:CreateAccountDiscountSubscription>
      <ser:AccountID>?</ser:AccountID>
      <ser:DiscountPlanID>?</ser:DiscountPlanID>
      <!--Optional:-->
      <ser:DateEffective>?</ser:DateEffective>
    </ser:CreateAccountDiscountSubscription>
  </soapenv:Body>
</soapenv:Envelope>
```

Important notes:

- AccountID needs to be the ID of the Account in the Emersion system
- DiscountPlanID needs to be the ID of the Discount Plan in the Emersion system
- DateEffective has to be a valid date, it's an optional field

Example Validation Error:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring>Validation Error</faultstring>
      <faultactor>http://emersion.com.au/Services</faultactor>
      <detail>Could not find Account ID!</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Validation rules:

- Account Exists
- Account is a direct child of the account calling the API
- Account Discount Plan Exists
- Account Discount Plan owner is the same as the account calling the API

Output

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:CreateDiscountSubscriptionResponse>
      <ns1:AccountDiscountSubscriptionID>100013</ns1:AccountDiscountSubscriptionID>
    </ns1:CreateDiscountSubscriptionResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

This Account Discount Subscription doesn't have a Start Date!

Error String:

- Invalid or Missing Account ID
- Invalid or Missing Discount Plan ID
- Could not find Account ID!
- You do not have permission to modify this Account!
- Account Discount Plan specified does not exist in the database!
- You do not have permission to modify this Account Discount Plan!

5.1.9 GetAccountDiscountPlans

Purpose

This method gets a list of the Account Discount Plans created by the provider.

Inputs

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:GetAccountDiscountPlans/>
  </soapenv:Body>
</soapenv:Envelope>
```

Validation

None

Output

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:GetAccountDiscountPlansResponse>
      <!--1 to 999 repetitions:-->
      <ns1:DiscountPlanItem>
        <ns1:AccessFee>40</ns1:AccessFee>
        <ns1:SetupFee>40</ns1:SetupFee>
        <ns1:InternalName>5 cap test, 40 set, 40 acc</ns1:InternalName>
        <ns1:ExternalName>5 cap test, 40 set, 40 acc</ns1:ExternalName>
        <ns1:Description>5 cap test, 40 set, 40 acc</ns1:Description>
        <ns1:ApprovalStatus></ns1:ApprovalStatus>
        <ns1:ApprovedDate></ns1:ApprovedDate>
        <ns1:ApprovedByID></ns1:ApprovedByID>
        <ns1:ApprovedByName></ns1:ApprovedByName>
        <ns1:SaleableFromDate></ns1:SaleableFromDate>
        <ns1:SaleableToDate></ns1:SaleableToDate>
        <ns1:Weight>10</ns1:Weight>
        <ns1:CapAmount>5</ns1:CapAmount>
        <ns1:AccessFeeTaxID>2</ns1:AccessFeeTaxID>
        <ns1:AccessFeeTaxName>GST</ns1:AccessFeeTaxName>
        <ns1:AccountID>215556</ns1:AccountID>
        <ns1:ServiceTypeID>3341</ns1:ServiceTypeID>
        <ns1:ServiceTypeName>Advance</ns1:ServiceTypeName>
        <ns1:ServiceTypeCategoryID>76</ns1:ServiceTypeCategoryID>
        <ns1:ServiceTypeCategoryName>Call Dynamics Inbound</ns1:ServiceTypeCategoryName>
        <ns1:SetupFeeTaxID>2</ns1:SetupFeeTaxID>
        <ns1:SetupFeeTaxName>GST</ns1:SetupFeeTaxName>
        <ns1:BillingType>1</ns1:BillingType>
        <ns1:BillingTypeName>Advance</ns1:BillingTypeName>
      </ns1:DiscountPlanItem>
    </ns1:GetAccountDiscountPlansResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- N/A

5.1.10 CancelAccountDiscountSubscription

Purpose

This method allows the provider to cancel an account discount subscription.

Inputs

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:CancelAccountDiscountSubscription>
      <ser:AccountDiscountSubscriptionID?></ser:AccountDiscountSubscriptionID>
      <!--Optional:-->
      <ser:DateCancel?></ser:DateCancel>
    </ser:CancelAccountDiscountSubscription>
  </soapenv:Body>
</soapenv:Envelope>
```

Important notes:

- AccountDiscountSubscriptionID needs to be the ID of an Account Discount Subscription in the Emersion system
- DateCancel has to be a valid date, it's an optional field, defaults to now

Example Validation Error:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring>Validation Error</faultstring>
      <faultactor>http://emersion.com.au/Services</faultactor>
      <detail>Account Discount Subscription specified does not exist in the database!</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Validation rules:

- Account Discount Subscription Id exists
- Account Discount Subscription Account Owner's parent equals calling Account
- Account Discount Subscription has no end_date and is of status 'active'
- Account Discount Subscription has a start date

Output

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:CancelAccountDiscountSubscriptionResponse/>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or Missing Discount Subscription ID
- Account Discount Subscription specified does not exist in the database!
- You do not have permission to modify this Account Discount Subscription!
- This Account Discount Subscription has already been canceled!

5.1.11 GetAccountDiscountSubscriptions

Purpose

This Method will retrieve all account discount subscriptions for a given account based on status (optional).

Inputs

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:GetAccountDiscountSubscriptions>
      <ser:AccountID?></ser:AccountID>
      <!--Optional:-->
      <ser:Status?></ser:Status>
    </ser:GetAccountDiscountSubscriptions>
  </soapenv:Body>
</soapenv:Envelope>
```

Important notes:

- AccountID needs to be the ID of the Account in the Emersion system
- Status needs to be the ID of PkgSubscriptionStatus in the Emersion system, optional

Example Validation Error:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring>Validation Error</faultstring>
      <faultactor>http://emersion.com.au/Services</faultactor>
      <detail>Could not find Account ID!</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Validation rules:

- Account exists
- Account has a parent which matches the caller.
- Status exists

Output

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:GetAccountDiscountSubscriptionsResponse>
      <!--1 to 999 repetitions:-->
      <ns1:AccountDiscountSubscriptionItem>
        <ns1:AccountDiscountSubscriptionID>100012</ns1:AccountDiscountSubscriptionID>
        <ns1:StartDate>2013-10-15 14:08:05</ns1:StartDate>
        <ns1:EndDate>2013-10-15 15:19:26</ns1:EndDate>
        <ns1:AccountID>216754</ns1:AccountID>
        <ns1:AccountDiscountPlanID>3</ns1:AccountDiscountPlanID>
        <ns1:SubscriptionStatusID>6</ns1:SubscriptionStatusID>
      </ns1:AccountDiscountSubscriptionItem>
    </ns1:GetAccountDiscountSubscriptionsResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String :

- Invalid or Missing Account ID
- Could not find Account ID!
- You do not have permission to modify this Account!
- Invalid Status ID!

5.1.12 GetCapCurrentStatus

Purpose

This method will allow a user to get an idea of what account based caps are remaining in the current period for their end user.

Inputs

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:GetCapCurrentStatus>
      <ser:AccountID?></ser:AccountID>
      <ser:ServiceID?></ser:ServiceID>
      <!--Optional:-->
      <ser:UsageDate?></ser:UsageDate>
    </ser:GetCapCurrentStatus>
  </soapenv:Body>
</soapenv:Envelope>
```

Important notes:

- AccountID needs to be the ID of the Account in the Emersion system
- ServiceID needs to be the ID of a Service in the Emersion system
- UsageDate has to be a valid date, it's an optional field, defaults to now

Example Validation Error:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring>Validation Error</faultstring>
      <faultactor>http://emersion.com.au/Services</faultactor>
      <detail>You do not have permission to modify this Account!</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Validation rules:

- Account exists
- Account has a parent which matches the caller.
- Service Id exists
- Usage Date is a valid date if supplied

Output

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:GetCapCurrentStatusResponse>
      <!--1 to 999 repetitions:-->
      <ns1:GetCapCurrentStatusItem>
        <ns1:PeriodRatio>0.7741935483871</ns1:PeriodRatio>
        <ns1:BaseCapAmount>1</ns1:BaseCapAmount>
        <ns1:CapAmount>0.7741935483871</ns1:CapAmount>
        <ns1:RateCardID>119423</ns1:RateCardID>
        <ns1:Weight>5</ns1:Weight>
        <ns1:AccountDiscountSubPeriodID>100020</ns1:AccountDiscountSubPeriodID>
        <ns1:PeriodStart>2013-10-08 12:15:58</ns1:PeriodStart>
        <ns1:PeriodEnd>2013-11-01 00:00:00</ns1:PeriodEnd>
        <ns1:SumRatedAmount/>
        <ns1:CapRemaining>0.7741935483871</ns1:CapRemaining>
      </ns1:GetCapCurrentStatusItem>
    </ns1:GetCapCurrentStatusResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or Missing Account ID
- Invalid or Missing Service ID
- Could not find Account ID!
- You do not have permission to modify this Account!
- Could not find Service ID!
- This service doesn't belong to this Account

5.1.13 GetSuburbByName

Purpose

For searching G-NAF data to find suburbs in Australia.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:getSuburbByName>
      <ser:suburb>BOAMBEE</ser:suburb>
    </ser:getSuburbByName>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:getSuburbResponse>
      <ns1:SuburbItem>
        <ns1:suburb>BOAMBEE</ns1:suburb>
        <ns1:postcode>2450</ns1:postcode>
      </ns1:SuburbItem>
      <ns1:SuburbItem>
        <ns1:suburb>BOAMBEE EAST</ns1:suburb>
        <ns1:postcode>2452</ns1:postcode>
      </ns1:SuburbItem>
    </ns1:getSuburbResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or missing suburb name

5.1.14 getSuburbByPostcode

Purpose

For searching G-NAF data to find suburbs in Australia.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:getSuburbByPostcode>
      <ser:postcode>2452</ser:postcode>
    </ser:getSuburbByPostcode>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:getSuburbResponse>
      <ns1:SuburbItem>
        <ns1:suburb>TOORMINA</ns1:suburb>
        <ns1:postcode>2452</ns1:postcode>
      </ns1:SuburbItem>
      <ns1:SuburbItem>
        <ns1:suburb>BOAMBEE EAST</ns1:suburb>
        <ns1:postcode>2452</ns1:postcode>
      </ns1:SuburbItem>
    </ns1:getSuburbResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or missing post code

5.1.15 getStreetAddress

Purpose

For searching G-NAF data to find addresses in Australia.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:getStreetAddress>
      <ser:suburb>BOAMBEE EAST</ser:suburb>
      <ser:postcode>2452</ser:postcode>
      <ser:street>LINDEN</ser:street>
      <!--Optional:-->
      <ser:number>175</ser:number>
    </ser:getStreetAddress>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://external.cpetersen.dev.emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:getStreetAddressResponse>
      <ns1:StreetAddressItem>
        <ns1:address_id>100156</ns1:address_id>
        <ns1:gnaf_pid>GANSW704153274</ns1:gnaf_pid>
        <ns1:lot_number>507</ns1:lot_number>
        <ns1:road_number_1>175</ns1:road_number_1>
        <ns1:road_name>LINDEN</ns1:road_name>
        <ns1:road_type>Avenue</ns1:road_type>
        <ns1:suburb>BOAMBEE EAST</ns1:suburb>
        <ns1:state>NSW</ns1:state>
        <ns1:postcode>2452</ns1:postcode>
      </ns1:StreetAddressItem>
    </ns1:getStreetAddressResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or missing suburb name
- Invalid or missing post code
- Invalid or missing street name

5.1.16 getServiceAvailabilityForAddress

Purpose

Determine what services are available at an address.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:getServiceAvailabilityForAddress>
      <ser:address_id>100156</ser:address_id>
      <!--Zero or more repetitions:-->
      <ser:service_type>3501</ser:service_type>
    </ser:getServiceAvailabilityForAddress>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:getServiceAvailabilityForAddressResponse>
      <ns1:ServiceAvailabilityItem>
        <ns1:identifier>LOC000016786489</ns1:identifier>
        <ns1:class_number>3</ns1:class_number>
        <ns1:servicable>true</ns1:servicable>
        <ns1:description>It's all good mate</ns1:description>
        <ns1:service_type_id>3501</ns1:service_type_id>
        <ns1:service_type_name>Open Networks Fibre</ns1:service_type_name>
        <ns1:service_type_description>Open Networks Fibre</ns1:service_type_description>
      </ns1:ServiceAvailabilityItem>
    </ns1:getServiceAvailabilityForAddressResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or missing address_id

5.1.17 getServiceAvailabilityForGnaf

Purpose

Determine what services are available for a G-NAF PID.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:getServiceAvailabilityForGnaf>
      <ser:gnaf_pid>GANSW704153274</ser:gnaf_pid>
      <!--Zero or more repetitions:-->
      <ser:service_type>3501</ser:service_type>
      <ser:service_type>3502</ser:service_type>
      <ser:service_type>3503</ser:service_type>
    </ser:getServiceAvailabilityForGnaf>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:getServiceAvailabilityForAddressResponse>
      <ns1:ServiceAvailabilityItem>
        <ns1:identifier>LOC000016786489</ns1:identifier>
        <ns1:class_number>3</ns1:class_number>
        <ns1:servicable>true</ns1:servicable>
        <ns1:description>It's all good mate</ns1:description>
        <ns1:service_type_id>3501</ns1:service_type_id>
        <ns1:service_type_name>Open Networks Fibre</ns1:service_type_name>
        <ns1:service_type_description>Open Networks Fibre</ns1:service_type_description>
      </ns1:ServiceAvailabilityItem>
    </ns1:getServiceAvailabilityForAddressResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or missing address_id

5.1.18 serviceLookup

Purpose

Returns service subscription information for a particular service identifier.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:serviceLookup>
      <ser:service_identifier>1</ser:service_identifier>
    </ser:serviceLookup>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:serviceLookupResponse>
      <ns1:serviceLookupItem>
        <ns1:account_id></ns1:account_id>
        <ns1:service_identifier></ns1:service_identifier>
        <ns1:subscription_status_name></ns1:subscription_status_name>
        <ns1:subscription_status_id></ns1:subscription_status_id>
        <ns1:service_subscr_start_date></ns1:service_subscr_start_date>
        <ns1:service_subscr_end_date></ns1:service_subscr_end_date>
        <ns1:cont_narr></ns1:cont_narr>
        <ns1:contract_start_date></ns1:contract_start_date>
        <ns1:contract_end_date></ns1:contract_end_date>
        <ns1:service_start_date></ns1:service_start_date>
        <ns1:service_end_date></ns1:service_end_date>
        <ns1:service_type_name></ns1:service_type_name>
        <ns1:carrier_name></ns1:carrier_name>
        <ns1:service_id></ns1:service_id>
      </ns1:serviceLookupItem>
    </ns1:serviceLookupResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Missing service_identifier serviceLookup
- Missing service_identifier

5.1.19

serviceDetail

Purpose

Returns service subscription information for a particular service.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:serviceDetail>
      <ser:service_id>1</ser:service_id>
    </ser:serviceDetail>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:serviceDetailResponse>
      <ns1:serviceDetailItem>
        <ns1:service_subscription_status_id></ns1:service_subscription_status_id>
        <ns1:service_subscr_status_name></ns1:service_subscr_status_name>
        <ns1:service_status_id></ns1:service_status_id>
        <ns1:service_status_name></ns1:service_status_name>
        <ns1:service_subscr_start_date></ns1:service_subscr_start_date>
        <ns1:service_subscr_end_date></ns1:service_subscr_end_date>
        <ns1:address></ns1:address>
        <ns1:package_plan_name></ns1:package_plan_name>
        <ns1:package_plan_name_external></ns1:package_plan_name_external>
        <ns1:service_type_id></ns1:service_type_id>
        <ns1:package_plan_id></ns1:package_plan_id>
        <ns1:account_credit_limit></ns1:account_credit_limit>
        <ns1:account_id></ns1:account_id>
        <ns1:account_export_ref></ns1:account_export_ref>
        <ns1:service_identifier></ns1:service_identifier>
        <ns1:service_start_date></ns1:service_start_date>
        <ns1:service_end_date></ns1:service_end_date>
        <ns1:service_status_id></ns1:service_status_id>
        <ns1:service_status></ns1:service_status>
        <ns1:service_type_name></ns1:service_type_name>
      </ns1:serviceDetailItem>
    </ns1:serviceDetailResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Missing service_id

5.1.20

telephonyCallHistory

Purpose

Return telephony usage information for a given period on a service.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:telephonyCallHistory>
      <ser:service_id></ser:service_id>
      <ser:invoiced_records></ser:invoiced_records>
      <ser:max_records></ser:max_records>
      <ser:record_start_date></ser:record_start_date>
      <ser:record_end_date></ser:record_end_date>
    </ser:telephonyCallHistory>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:telephonyCallHistoryResponse>
      <ns1:telephonyCallHistoryItem>
        <ns1:date_started></ns1:date_started>
        <ns1:date_ended></ns1:date_ended>
        <ns1:fnn_destination></ns1:fnn_destination>
        <ns1:tariff_id></ns1:tariff_id>
        <ns1:tariff_name></ns1:tariff_name>
        <ns1:rated_tariff_id></ns1:rated_tariff_id>
        <ns1:rated_tariff_name></ns1:rated_tariff_name>
        <ns1:duration></ns1:duration>
        <ns1:rated_tariff_type_id></ns1:rated_tariff_type_id>
        <ns1:rated_tariff_type_name></ns1:rated_tariff_type_name>
        <ns1:destination_description></ns1:destination_description>
        <ns1:package_plan_id></ns1:package_plan_id>
        <ns1:call_reference_id></ns1:call_reference_id>
        <ns1:package_plan_name></ns1:package_plan_name>
        <ns1:package_plan_name_external></ns1:package_plan_name_external>
        <ns1:rated_amount></ns1:rated_amount>
        <ns1:charged_amount></ns1:charged_amount>
        <ns1:invoiced_amount></ns1:invoiced_amount>
        <ns1:invoiced_amount_tax></ns1:invoiced_amount_tax>
        <ns1:time_band_id></ns1:time_band_id>
        <ns1:time_band_description></ns1:time_band_description>
        <ns1:rated_tax_type_id></ns1:rated_tax_type_id>
        <ns1:rated_tax_type_name></ns1:rated_tax_type_name>
        <ns1:rated_tax_type_percentage></ns1:rated_tax_type_percentage>
        <ns1:service_subscription_period_id></ns1:service_subscription_period_id>
        <ns1:service_bolton_subscription_period_id></ns1:service_bolton_subscription_period_id>
        <ns1:package_period_id></ns1:package_period_id>
      </ns1:telephonyCallHistoryItem>
    </ns1:telephonyCallHistoryResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Missing service_id
- Missing invoiced_records
- Missing record_start_date
- Missing record_end_date
- Missing max_records

5.1.21 serviceList

Purpose

Return service subscription information for a given account.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:serviceList>
      <ser:account_id>1</ser:account_id>
    </ser:serviceList>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:serviceListResponse>
      <ns1:serviceListItem>
        <ns1:service_subscr_period_start_date></ns1:service_subscr_period_start_date>
        <ns1:service_subscr_period_end_date></ns1:service_subscr_period_end_date>
        <ns1:service_id></ns1:service_id>
        <ns1:service_identifier></ns1:service_identifier>
        <ns1:vanity_service_identifier></ns1:vanity_service_identifier>
        <ns1:service_type_id></ns1:service_type_id>
        <ns1:service_type_name></ns1:service_type_name>
        <ns1:service_status></ns1:service_status>
        <ns1:service_start_date></ns1:service_start_date>
        <ns1:service_end_date></ns1:service_end_date>
        <ns1:service_subscr_start_date></ns1:service_subscr_start_date>
        <ns1:service_subscr_end_date></ns1:service_subscr_end_date>
      </ns1:serviceListItem>
    </ns1:serviceListResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Missing account_id

5.1.22 invoicesByAccount

Purpose

Get a list of invoices for a given account.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:invoicesByAccount>
      <ser:account_id>1</ser:account_id>
    </ser:invoicesByAccount>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:invoicesByAccountResponse>
      <ns1:invoicesByAccountItem>
        <ns1:invoice_id></ns1:invoice_id>
        <ns1:total_amount></ns1:total_amount>
        <ns1:total_tax></ns1:total_tax>
        <ns1:outstanding_amount></ns1:outstanding_amount>
        <ns1:outstanding_tax></ns1:outstanding_tax>
        <ns1:balance_at_generation></ns1:balance_at_generation>
        <ns1:invoice_start></ns1:invoice_start>
        <ns1:invoice_end></ns1:invoice_end>
        <ns1:invoice_period_start></ns1:invoice_period_start>
        <ns1:invoice_period_end></ns1:invoice_period_end>
        <ns1:invoice_issue></ns1:invoice_issue>
        <ns1:invoice_due></ns1:invoice_due>
        <ns1:invoice_status></ns1:invoice_status>
        <ns1:invoice_status_name></ns1:invoice_status_name>
      </ns1:invoicesByAccountItem>
    </ns1:invoicesByAccountResponse>
  </SOAP-ENV:Body>
</soapenv:Envelope>
```

Error String:

- Missing account_id

5.1.23

getInvoiceDetail

Purpose

Get invoice items for a given invoice.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:getInvoiceDetail>
      <ser:invoice_id>1</ser:invoice_id>
    </ser:getInvoiceDetail>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:getInvoiceDetailResponse>
      <ns1:getInvoiceDetailItem>
        <ns1:ledger_code></ns1:ledger_code>
        <ns1:ledger_code_name></ns1:ledger_code_name>
        <ns1:ledger_code_description></ns1:ledger_code_description>
        <ns1:package_plan_name></ns1:package_plan_name>
        <ns1:package_plan_id></ns1:package_plan_id>
        <ns1:package_plan_period_length></ns1:package_plan_period_length>
        <ns1:service_plan_id></ns1:service_plan_id>
        <ns1:service_plan_name></ns1:service_plan_name>
        <ns1:service_plan_period_length></ns1:service_plan_period_length>
        <ns1:bolt_on_plan_id></ns1:bolt_on_plan_id>
        <ns1:bolt_on_plan_name></ns1:bolt_on_plan_name>
        <ns1:bolt_on_plan_period_length></ns1:bolt_on_plan_period_length>
        <ns1:covers_from></ns1:covers_from>
        <ns1:covers_to></ns1:covers_to>
        <ns1:vanity_covers_from></ns1:vanity_covers_from>
        <ns1:vanity_covers_to></ns1:vanity_covers_to>
        <ns1:actual_amount_ex></ns1:actual_amount_ex>
        <ns1:actual_amount_tax></ns1:actual_amount_tax>
        <ns1:transaction_date></ns1:transaction_date>
        <ns1:service_start_date></ns1:service_start_date>
        <ns1:service_created_by_id></ns1:service_created_by_id>
        <ns1:service_created_by_name></ns1:service_created_by_name>
      </ns1:getInvoiceDetailItem>
    </ns1:getInvoiceDetailResponse>
  </SOAP-ENV:Body>
</soapenv:Envelope>
```

Error String:

- Missing invoice_id

5.1.24

getInvoiceById

Purpose

Return the actual invoice (PDF) for a given invoice.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:getInvoiceById>
      <ser:invoice_id>1</ser:invoice_id>
    </ser:getInvoiceById>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:getInvoiceByIdResponse>
      <ns1:getInvoiceByIdItem>
        <ns1:filename></ns1:filename>
        <ns1:account_id></ns1:account_id>
        <ns1:file></ns1:file>
      </ns1:getInvoiceByIdItem>
    </ns1:getInvoiceByIdResponse>
  </SOAP-ENV:Body>
</soapenv:Envelope>
```

Error String:

- Missing invoice_id

5.1.25 getServiceDetailsByServiceIdentifierAndServiceTypeId

Input:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.sjoglekar.dev.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:getServiceDetailsByServiceIdentifierAndServiceTypeIdRequest>
      <ser:serviceIdentifier>61394164277</ser:serviceIdentifier>
      <ser:serviceTypeId>38</ser:serviceTypeId>
    </ser:getServiceDetailsByServiceIdentifierAndServiceTypeIdRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://external.sjoglekar.dev.emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:getServiceDetailsByServiceIdentifierAndServiceTypeIdResponse>
      <ns1:serviceDetailsByServiceIdentifierAndServiceType>
        <ns1:configurationDetail><![CDATA[<?xml version="1.0"?>
<service>340052</service>
<configuration>
  <properties VANITY_IDENTIFIER="Harper St"/>
</configuration>]]></ns1:configurationDetail>
      <ns1:serviceDetailItem>
        <ns1:service_subscription_status_id>2</ns1:service_subscription_status_id>
        <ns1:service_subscr_status_name>Active</ns1:service_subscr_status_name>
        <ns1:service_status_id>1</ns1:service_status_id>
        <ns1:service_status_name>Active</ns1:service_status_name>
        <ns1:service_subscr_start_date>2012-11-01 00:00:00</ns1:service_subscr_start_date>
        <ns1:package_plan_name>TrueVoIP Plus</ns1:package_plan_name>
        <ns1:package_plan_name_external>TrueVoIP Plus</ns1:package_plan_name_external>
        <ns1:service_type_id>38</ns1:service_type_id>
        <ns1:package_plan_id>136776</ns1:package_plan_id>
        <ns1:account_id>217060</ns1:account_id>
        <ns1:service_identifier>61394164277</ns1:service_identifier>
        <ns1:service_start_date>2011-10-01 00:00:00</ns1:service_start_date>
        <ns1:service_type_name>IsPhone VOIP</ns1:service_type_name>
      </ns1:serviceDetailItem>
    </ns1:serviceDetailsByServiceIdentifierAndServiceType>
    <ns1:serviceDetailsByServiceIdentifierAndServiceType>
      <ns1:configurationDetail><![CDATA[<?xml version="1.0"?>
<service>340052</service>
<configuration>
  <properties VANITY_IDENTIFIER="Harper St"/>
</configuration>]]></ns1:configurationDetail>
      <ns1:serviceDetailItem>
        <ns1:service_subscription_status_id>5</ns1:service_subscription_status_id>
        <ns1:service_subscr_status_name>Cancelled</ns1:service_subscr_status_name>
        <ns1:service_status_id>1</ns1:service_status_id>
        <ns1:service_status_name>Active</ns1:service_status_name>
        <ns1:service_subscr_start_date>2011-10-01 00:00:00</ns1:service_subscr_start_date>
        <ns1:service_subscr_end_date>2012-11-01 00:00:00</ns1:service_subscr_end_date>
        <ns1:package_plan_name>TrueVoIP Plus</ns1:package_plan_name>
        <ns1:package_plan_name_external>TrueVoIP Plus</ns1:package_plan_name_external>
        <ns1:service_type_id>38</ns1:service_type_id>
        <ns1:package_plan_id>136776</ns1:package_plan_id>
        <ns1:account_id>217060</ns1:account_id>
        <ns1:service_identifier>61394164277</ns1:service_identifier>
        <ns1:service_start_date>2011-10-01 00:00:00</ns1:service_start_date>
        <ns1:service_type_name>IsPhone VOIP</ns1:service_type_name>
      </ns1:serviceDetailItem>
    </ns1:serviceDetailsByServiceIdentifierAndServiceType>
  </ns1:getServiceDetailsByServiceIdentifierAndServiceTypeIdResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Missing Service Identifier ". \$this->server->getUser()->account->id
- Missing Service Type Id

5.1.26

TokeniseCreditCard

Purpose

This allow customer to store credit card in to EPS and generate token for a secure way of making / requesting payment.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:TokeniseCreditCardRequest>
      <ser:TokeniseCreditCard automated_payment_configuration="1" account_id="511596" card_type="Visa"
card_name="Customer Name" card_number="4444333322221111" card_expiry="6/2015" card_cvv="123" />
    </ser:TokeniseCreditCardRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Description:

- Required attribute:
 - automated_payment_configuration = Type positive integer option:
 - 1 = One off payment (Default).
 - 2 = One off payment and set as default payment.
 - 3 = Set as default payment and enable recurring charges.
 - account_id = Type positive integer
 - Card_type = Type Option
 - Visa
 - MasterCard
 - American Express
 - Diners
 - card_name = Type string at least 1 character
 - card_number = Type string must be valid card credit card number base on the card_type
 - card_expiry = Type date format mm/YYYY
 - card_cvv = Type non negative integer

Outputs:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://external.emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:TokeniseCreditCardResponse>
      <ns1:CreditCardTokenResponse>
        305889725747721480112620601729009174294547589547C
      </ns1:CreditCardTokenResponse>
    </ns1:TokeniseCreditCardResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Payment gateway has not been initialised

- Required TokeniseCreditCard' element
- Invalid account ID ['.\$requestDetails->account_id.'].
Account provided is not currently active.
- Required credit card type
- Required credit card number
- Required credit card holder name
- Required credit card expiry date
- Credit Card provided expired.
- Invalid credit card expiry date
- Required credit card security number / cvv
- Credit card type ['.\$requestDetails->card_type.']. is currently not supported.
Please try another card.
- Invalid Credit Card Details.
- Unable to process credit card. '.\$request->getError());

5.1.27

CreatePayment

Purpose

Take payment out of customer account on instant payment.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://external.emersion.com.au/ServiceObjects">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:PaymentRequest>
      <ser:Payment account_id="511596"
token="305889725747721480112620601729009174294547589547C" payment_vanity_date="18/06/2014"
amount="100">
        <!--Optional:-->
        <ser:Invoices>
          <!--1 or more repetitions:-->
          <ser:Invoice id="441449" amount_to_be_allocated="70"></ser:Invoice>
          <ser:Invoice id="370659" amount_to_be_allocated="30"></ser:Invoice>
        </ser:Invoices>
      </ser:Payment>
    </ser:PaymentRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Description:

In Payment tag:

- Required attribute
 - account_id = Type positive integer
 - token = Type String
 - amount = Type decimal and value must be greater than zero
- Optional attribute
 - Payment_vanity_date format dd/mm/YYYY HH:II:SS

Invoices tag is optional but if the Invoices tag exists there must be at least 1 invoice tag inside invoices tag.

```
<ser:Invoices>
  <!--1 or more repetitions:-->
  <ser:Invoice id="441449" amount_to_be_allocated="70"></ser:Invoice>
  <ser:Invoice id="370659" amount_to_be_allocated="30"></ser:Invoice>
</ser:Invoices>
```

Note: Total Payment amount must be the same as total overall Invoice amount_to_be_allocated.

Outputs:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://external.emersion.com.au/ServiceObjects">
  <SOAP-ENV:Body>
    <ns1:PaymentResponse>
      <ns1:Payment payment_id="532061" result_code_id="100" response_message="Payment accepted and successfully
processed. BankReceiptID = 823799" receipt_number="823799"/>
    </ns1:PaymentResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Description:

Attribute

payment_id = Emersion Payment ID.

result_code_id = Payment status :

- 10 Initial
- 30 Processing
- 40 Pending
- 60 Uncleared
- 70 Precompleted
- 80 Prefailed
- 100 Successful
- 110 Failed
- 120 Void

response_message = String text description of the payment.

receipt_number = payment receipt number.

Error String:

- Required payment property
- Payment amount must be greater than zero
- Invalid payment date input
- Invalid account ID ['. \$payment->account_id. ']
- Required payment token
- Invalid payment token
- Required 'Invoice' element and property
- Total payment amount and invoice amount does not match
- Error occur while processing payment. Please try it again in a few minutes.
- Invoice amount to be allocated must be greater than zero

- Invalid Invoice ID [".\$invoice->id."]

5.2 UserPortal

Purpose

The 'UserPortal' section of the Emersion API layer primarily contains user portal helper functions. The WSDL is at <https://external-prerelease.emersion.com.au/UserPortal.wsdl>

5.2.1 CreateSession

Purpose

The Create Session method will allow you to create a tokenised session to simplify login process into the user portal. By creating a token and redirecting in, you don't have to have a client check in twice.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:user="http://emersion.com.au/UserPortal/">
  <soapenv:Header/>
  <soapenv:Body>
    <user:CreateSessionRequest>
      <username>username@domain.com.au</username>
      <password>abc123</password>
    </user:CreateSessionRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/UserPortal/">
  <SOAP-ENV:Body>
    <ns1:CreateSessionResponse>
      <session>8dd43e08096399e7615dc4866830aafb5ecf843010dec1c37720de4554bf4f62</session>
    </ns1:CreateSessionResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Further notes / usage

The method will return you a login key. This login key can be used to redirect a client directly to the userportal and log them in with their validated account. The syntax for this post call is:

<https://portal.your-domain.com/?login=<sessionkey>>

Where 'sessionkey' is the return value of the API call above. This post call will automatically log in the validated user with this session key and redirect them to the main menu of the userportal.

Error String:

- Invalid username
- Invalid password for username supplied

5.3 AAPT

The 'AAPT' section of the Emersion API layer primarily contains interfaces to talk to Emersion's implementation of the AAPT FrontierLink Provisioning system. This provisioning system deals with the implementation of ordering and management of Layer 2 and Layer 3 DSL services.

The WSDL is at <https://external-prerelease.emersion.com.au/AAPT.wsdl>

5.3.1 ServiceQualification

Purpose

The ServiceQualification will allow you to submit a full national number and the product type as inputs, and receive a formatted XML string as a CDATA reply with full information on what products are available on the provided full national number.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:aapt="http://emersion.com.au/AAPT">
  <soapenv:Header/>
  <soapenv:Body>
    <aapt:ServiceQualificationRequest>
      <FNN>0398765432</FNN>
      <Product>National Wholesale Broadband</Product>
    </aapt:ServiceQualificationRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Important Notes:

- FNN is the normal 10 digit <area code><phone number> format with no spacing
- Product can only be submitted as 'National Wholesale Broadband' at this time.

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/AAPT">
  <SOAP-ENV:Body>
    <ns1:ServiceQualificationResponse>
      <Details> -- serialized PHP array of the SQ result endpoints -- </Details>
      <Qualified>Success</Qualified>
    </ns1:ServiceQualificationResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Important Notes:

- The Details element contains a serialized PHP array. If your codebase cannot parse this then please contact us and we will arrange to provide a different output should the need arise.
- The Qualified result will return either 'Success' or 'Failed'

Error String:

- All variables have not been provided
- Could not find AAPT L3 service type map for your account.

5.4 RetailServices

The 'RetailServices' section of the Emersion API layer works with functions to do with the debit and credit of cardlines or payments as well as a number of radius based services for those clients that use Emersion Radius The WSDL is at <https://external-prerelease.emersion.com.au/AAPT.wsdl>

5.4.1 CreateLedgerCardline

Purpose

The CreateLedgerCardline function allows you to submit a misc credit or debit against a customer and have it arrive against their account as an unallocated cardline. This cardline can be collected by their next invoice for payment.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ret="http://emersion.com.au/RetailUsers">
  <soapenv:Header/>
  <soapenv:Body>
    <ret:CreateLedgerCardlineRequest>
      <ret:AccountID>392407</ret:AccountID>
      <ret:TransactionDate>31-01-2013 14:30:00</ret:TransactionDate>
      <ret:Amount>12.95</ret:Amount>
      <ret:Tax>1.98</ret:Tax>
      <ret:Description>Cardline from external API</ret:Description>
    </ret:CreateLedgerCardlineRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Important Notes:

- Customer ID must be someone whom is managed by your certificate account
- Transaction date must be in the format DD-MM-YYYY hh:mm:ss
- Amount can be positive or negative for debits or credits respectively
- Tax can be zero, or the appropriate positive / negative amount for a debit or credit respectively
- Description is mandatory
- A non required element 'LedgerCodeID' can be provided if you do not wish to use the defaults – this maps to the integer code of the ledger code you wish to use.

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="https://external.emersion.com.au/RetailServices">
  <SOAP-ENV:Body>
    <ns1:CreateLedgerCardlineResponse>
      <ns1:result>1558997</ns1:result>
    </ns1:CreateLedgerCardlineResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

A successful insert of the cardline should provide you with the ledger cardline ID that was created. Any errors or validation problems should result in an exception or a soap fault.

Error String:

- You can only operate on accounts that are your direct children.
- Amount supplied was either missing or zero. Amount must have a positive or negative value.
- Amount has greater than 2 decimal places, this is not valid.
- Tax Amount has greater than 2 decimal places, this is not valid.
- Description is a mandatory field
- Ledger code could not be established from your input. Either specify a correct integer, or leave blank and the system will choose.
- Could not create new cardline, error was: ".\$ex->getMessage()

5.4.2 CreatePayment

Purpose

The CreatePayment function allows you to submit a payment that has been taken via a third party system against a client, thus recording it against their account in Emersion. This offers the same functionality as the Receive Payment interface in Cumulus.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ret="http://emersion.com.au/RetailUsers">
  <soapenv:Header/>
  <soapenv:Body>
    <ret:CreatePaymentRequest>
      <ret:AccountID>396901</ret:AccountID>
      <ret:TransactionCategory>CASH</ret:TransactionCategory>
      <!--Optional:-->
      <ret:Reference>abc123456</ret:Reference>
      <!--Optional:-->
      <ret:Note>Payment for outstanding debt</ret:Note>
      <ret:Amount>25.00</ret:Amount>
      <!--Optional:-->
      <ret:TransactionDate>25 MAR 2013</ret:TransactionDate>
    </ret:CreatePaymentRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Important Notes:

- Account ID must be someone whom is managed by your certificate account
- Transaction date must be in the format DD MMM YYYY i.e. 12 MAR 2013
- Transaction Category must be one of the following from the left column of values, right column is it's meaning:
 - VISA_MC Credit Card - VISA/MASTERCARD
 - AMEX Credit Card - AMEX
 - DINERS Credit Card - DINERS
 - CONTRA Contra
 - AGENT Agent Collected
 - DIRECTDEBIT Direct Debit
 - EFT EFT or Direct Deposit
 - EFTPOS EFTPOS
 - CASH Cash
 - CHEQUE Cheque
 - MORDER Money Order
 - BPAY BPay
 - PAYBYPHONE Pay By Phone
 - POSTBILLPAY Australia Post Bill Pay
 - CREDITCARD Credit Card
 - INTERNAL Internal Charge
- If transaction date is omitted, today's date will be used.

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/RetailUsers">
  <SOAP-ENV:Body>
    <ns1:CreatePaymentResponse>
      <ns1:paymentID>374057</ns1:paymentID>
    </ns1:CreatePaymentResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

A successful insert of the payment should provide you with the payment ID that was created. Any errors or validation problems should result in an exception or a soap fault. This new payment will be unallocated against any invoices.

Error String:

- The customer account ID is invalid.
- You can only operate on accounts that are your direct children.
- You must provide a valid transaction category, please check documentation for the category types
- Exception while processing payment, error was: ".\$e->getMessage()

5.4.3

UpdateFlatFile

Purpose

The UpdateFlatFile function allows you get RADIUS information supplied as a CSV file.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ret="http://emersion.com.au/RetailUsers">
  <soapenv:Header/>
  <soapenv:Body>
    <ret:UpdateFlatFile/>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/RetailUsers">
  <SOAP-ENV:Body>
    <ns1:UpdateFlatFileResponse>
      <ns1:result>Success: 1</ns1:result>
    </ns1:UpdateFlatFileResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

5.4.4

UsersByRealm

Purpose

The UsersByRealm function allows you get RADIUS information about users for a given realm.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ret="http://emersion.com.au/RetailUsers">
  <soapenv:Header/>
  <soapenv:Body>
    <ret:UsersByRealm>
      <ret:realm>1</ret:realm>
    </ret:UsersByRealm>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/RetailUsers">
  <SOAP-ENV:Body>
    <ns1:UsersByRealmResponse>
      <ns1:ComplexUser>
        <ns1:account_id>1</ns1:account_id>
        <ns1:service_id>1</ns1:>
        <ns1:service_subscription_id>1</ns1:service_subscription_id>
        <ns1:account_name>1</ns1:account_name>
        <ns1:fnn>1</ns1:fnn>
        <ns1:username>1</ns1:username>
        <ns1:password>1</ns1:password>
        <ns1:reply_attributes>1</ns1:reply_attributes>
        <ns1:ip_address>1</ns1:ip_address>
        <ns1:framed_route>1</ns1:framed_route>
        <ns1:shaping_attributes>1</ns1:shaping_attributes>
        <ns1:service_name>1</ns1:service_name>
        <ns1:total_period_upload_data>1</ns1:total_period_upload_data>
        <ns1:total_period_download_data>1</ns1:total_period_download_data>
        <ns1:total_allowance>1</ns1:total_allowance>
        <ns1:usage_period_start>1</ns1:usage_period_start>
        <ns1:usage_period_end>1</ns1:usage_period_end>
      </ns1:ComplexUser>
    </ns1:UsersByRealmResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or Missing account id
- Invalid or Missing realm
- Records not found

5.4.5

UsersByUserName

Purpose

The UsersByUserName function allows you get RADIUS information about a particular user.

Inputs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ret="http://emersion.com.au/RetailUsers">
  <soapenv:Header/>
  <soapenv:Body>
    <ret:UsersByUserName>
      <ret:username>name</ret:username>
    </ret:UsersByUserName>
  </soapenv:Body>
</soapenv:Envelope>
```

Output:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://emersion.com.au/RetailUsers">
  <SOAP-ENV:Body>
    <ns1:UsersByUserNameResponse>
      <ns1:ComplexUser>
        <ns1:account_id>1</ns1:account_id>
        <ns1:service_id>1</ns1:>
        <ns1:service_subscription_id>1</ns1:service_subscription_id>
        <ns1:account_name>1</ns1:account_name>
        <ns1:fnn>1</ns1:fnn>
        <ns1:username>1</ns1:username>
        <ns1:password>1</ns1:password>
        <ns1:reply_attributes>1</ns1:reply_attributes>
        <ns1:ip_address>1</ns1:ip_address>
        <ns1:framed_route>1</ns1:framed_route>
        <ns1:shaping_attributes>1</ns1:shaping_attributes>
        <ns1:service_name>1</ns1:service_name>
        <ns1:total_period_upload_data>1</ns1:total_period_upload_data>
        <ns1:total_period_download_data>1</ns1:total_period_download_data>
        <ns1:total_allowance>1</ns1:total_allowance>
        <ns1:usage_period_start>1</ns1:usage_period_start>
        <ns1:usage_period_end>1</ns1:usage_period_end>
      </ns1:ComplexUser>
    </ns1:UsersByUserNameResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Error String:

- Invalid or Missing account id
- Invalid or Missing username
- Records not found '. \$username