



API Developer Guide

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1 Introduction

The purpose of this document is to provide users with an understanding of how to integrate with Peerless Network's Animate API. The documentation includes information and examples of how to submit requests and receive responses from Animate. The Animate API Developer Guide should enable developers to facilitate all work-flow activities available through the Animate User Interface.

2 Security (Authentication)

2.1 Steps to access the URL for WSDL

NOTE: The WSDL files are now available in the 'Help' section of our animate UI.

For staging : <https://aniweb02.peerlessnetwork.com>

For production : <https://animate.peerlessnetwork.com>

The wsdl and the xsd files downloaded from the Help section of our UI can be directly used without making any changes to them. In that case you can ignore the below steps. (APIService.wsdl - is the actual wsdl file and APIServicePortType.wsdl is the xsd file)

In case you are unable to download the wsdl and xsd files from the help section, refer to the steps below:

URLs to be used for staging :

<https://aniweb02.peerlessnetwork.com:8181/public/APIService?wsdl> or

<https://aniweb02.peerlessnetwork.com:8181/animateapi/axis/APIService?wsdl>

URLs to be used for production :

<https://animate.peerlessnetwork.com:8181/public/APIService?wsdl> or

<https://animate.peerlessnetwork.com:8181/animateapi/axis/APIService?wsdl>

Because of security reasons, the URLs might not be accessible directly to send requests. Please follow the given steps:

1. The wsdl <https://aniweb02.peerlessnetwork.com:8181/public/APIService?wsdl> needs to be downloaded first and can be saved as APIService.wsdl at the location of choice.

2. Now the value of "location" attribute on top of wsdl file (<http://aniweb02.peerlessnetwork.com:8181/animateapi/axis/APIService?wsdl=1>) should be replaced with APIService.xsd only at the top i.e. location="APIService.xsd" .

(Location attribute has been used twice - one at the top and the other at the bottom of the wsdl. So only the top attribute needs to be changed)

3. Open the old location value retrieved from wsdl i.e. <http://aniweb02.peerlessnetwork.com:8181/animateapi/axis/APIService?wsdl=1> as url from the browser.

4. Please right click and save this as APIService.xsd at the same location where wsdl file was saved.

5. Change the schemaLocation attribute in the xsd file as https i.e. <https://aniweb02.peerlessnetwork.com:8181/animateapi/axis/APIService?xsd=1>

Now the requests can be sent using the local path of the wsdl file.



In case of using cURL please try giving the following command:

```
curl -k -X POST --data @request.xml -H "Content-Type: text/xml"
"https://aniweb02.peerlessnetwork.com:8181/animateapi/axis/APIService" > response.xml
```

where request.xml is the file where you write your request to be sent to the URL and the response is redirected to the file response.xml.

NOTE:

- In the steps above we have used the staging URL but you can interchange it with the Production URL as per your requirement. e.g. <https://animate.peerlessnetwork.com:8181/animateapi/axis/APIService>
- Get the IP Address, from which the requests would be sent, whitelisted by us.

2.2

Every user must provide access credentials for each request. Those credentials should be submitted as part of each request. Customer and Pass Code credentials will be provided outside of this documentation. In addition to these credentials, Peerless will require customers to provide a static IP address from which requests will be placed.

```
<authentication>
  <customer>PEERL</customer>
  <passCode>!@#%&*()*&^%$#@!</passCode>
  <userId>user@customer.com</userId>
</authentication>
```

	Element	Constraint	Description

t	ry	ce		
Customer	Yes	1	Static & Unique	Logical / Short Code provided to customer
Password	Yes	1	*peerless has ability to change, if customer requests to change	Secret Code provided to Customer
UserId	Yes	1	Valid Email Id	Should be valid Animate user of Customer

3 API

3.1 Response Codes

Error Codes will occur when an invalid request is placed in the API. The error codes can be identified as follows:

EP000* - Generic Placed Order error codes. This can occur for any order placed, namely, New Number, PortIn, PortOut, Disconnect, Change Order.

EU000* - Occurs during user validation error

EES000* - Occurs during EntitySettings validation error

EPNN000* - Occurs while placing New Number order

EPPI000* - Occurs while placing Port In Number order

EPPO000* - Occurs while placing Port Out Number order

EPCO000* - Occurs while placing change order

EISEO000* - Internal Server Exception

EPDI000* - Occurs while placing Disconnect Number order

ESN000* - Occurs during search number

EF000* - Occurs while placing request for various features in API

ESA00* - Occurs while placing ActivateSOA request

ESN000* - Occurs while searching numbers

CNAM00* - Occurs while CNAM storage string is not according to required format.

3.1.1 Error Codes

Error Code	String Code	Possible reasons
EP0001	INVALID_ORDER_TYPE	Invalid Order type given in request
EP0002	ERROR_WHILE_VALIDATING_REQUEST	Error while validating request
EP0003	ERROR_WHILE_VALIDATING_ORDER_NUMBERS	Error while validating OrderNumbers
EP0004	TN_DETAILS_NOT_FOUND_OR_INVALID_REQUEST	Tn Details not found or Invalid Request
EP0005	ERROR_WHILE_VALIDATING_REQUESTED_DESTINATION	Validation failed for Requested Destination
EP0006	ERROR_WHILE_VALIDATING_E911_ADDRESS	Error while validating e911 address
EU0001	ERROR_WHILE_VALIDATING_USER_ID_CUST_ID_NULL	UserId or CustomerName cannot be null
EU0002	ERROR_WHILE_VALIDATING_USER_INVALID_CREDENTIALS	Api user could not be validated with the credentials provided.
EU0003	ERROR_WHILE_VALIDATING_USER_MISMATCHED_ENTITY	Customer does not match with the User's Entity from DB
EES0001	ERROR_WHILE_GETTING_ENTITY_SETTINGS	Validation failed for entity settings
EES0002	ERROR_WHILE_VALIDATING_REQUEST_FEATURES_WITH_ENTITYSETTINGS	Validation of either of the Entity Settings features : e911, sms, cnam storage, cnam delivery, failed.

EPNN0001	NN_VALIDATION_FAILED_FOR_REQUESTED_DESTINATION	Validation failed for Requested Destination
EPNN0002	NN_VALIDATION_FAILED_FOR_REQUESTED_FEATURES	Validation failed for Requested Features
EPNN0003	NN_ERROR_WHILE_VALIDATING_E911_ADDRESS	Error while validating e911 address
EPNN0004	NN_NUMBER_NOT_IN_UNASSIGNED_STATE	Number is not in UnAssigned State
EPNN0005	NN_NUMBER_NOT_LOCKED_BY_LOGGED_IN_USER	Number is not locked by logged in user

EPPi0001	PI_ERROR_FOR_AUTHDATE/DESIREDDUEDATE(yyyy-MM dd)	Error While processing PI Request, AuthDate/DesiredDueDate acceptable format is yyyy-MM-dd
EPPi0002	PI_PON_VALIDATION_ERROR	Error While processing PI Request, Due to PON Validation errors
EPPi0003	PI_ERROR_DUE_TO_PENDING_ORDERS	Error While processing PI Request, Due to pending Orders
EPPi0004	PI_ERROR_WHILE_PROCESSING_PI_REQUEST	Error While processing PI Request
EPPi0005	PI_ERROR_DUE_TO_OFFNET_ERRORS	Error While processing PI Request, Due OffNet errors
EPPi0006	PI_INVALID_USERID	No user exists with the given user id
EPPi0007	PI_ERROR_DUE_TO_UNASSIGNED_NUMBERS	Error While processing PI Request, Due UnAssigned Numbers error
EPPi0008	PI_ERROR_WHILE_VALIDATING_E911_ADDRESS	Error while validating e911 address
EPPi0009	PI_NPAC_EXCEPTION	NpacException

EPPI00010	ERROR_UNABLE_TO_FIND_RELATED_ORDERS_FOR_GIVEN_ORDERID	No related orders found for given orderId
EPPI00011	ERROR_NO_VALID_NUMBERS_TO_PLACE_ORDER	This occurs while placing a PortIn order request and the numbers placed in the PortIn order do not fulfill the requirements then they would be excluded from the order.
EPPI00020	PI_ERROR_FOR_TIMEZONE_VALUE	Error observed when invalid timezone value is provided
EPPO0001	PO_ERROR_ORDER_COULD_NOT_BE_COMPLETED	PortOut Order couldnot be completed
EPCO0001	CO_REQUEST_SAME_AS_EXISTING_FEATUES	Requested features change is same existing features for number
EPCO0002	CO_ERROR_ORDER_COULD_NOT_BE_COMPLETED	Change order couldnot be completed
EPCO0003	CO_REQUEST_PARAMS_CANNOT_BE_NULL	Request params cannot be null
EPCO0004	ERROR_NUMBERS_DONT_EXIST	number(s) in request donot exist
EPCO0005	ERROR_NUMBERS_DONT_BELONG_TO_ENTITY	number(s) in request donot belong to the given entity
EPCO0006	ERROR_UNASSIGNED_NUMBERS	Number(s) are unassigned
	EISEO0001 INTERNALSERVEREXCEPTION	InternalServerException

EPDI0001	ERROR_WHILE_PROCESSING_DISCONNECT_REQUEST	Error While processing Disconnect Request
EPDI0002	ERROR_WHILE_VALIDATING_DI_REQUEST	Validation failed for the DI request

EPDI0003	DISCONNECT_TYPE_NULL	Disconnect type is not given
ESN0001	ERROR_WHILE_VALIDATING_QUANTITY_MULTIPLIER	The value of Quantity Multiplier is not necessarily set for the given entity in the database tables.
ESN0002	ERROR_QUANTITY_SHOULD_BE_MULTIPLIER_OF_CONSECUTIVE	eg: If Quantity = 10, then value of Consecutive can be 1,2,5 or 10
ESN0003	NO_VALID_NUMBERS_FOUND_FOR_YOUR_SEARCH.PLEASE_RETRY_AFTER_SOMETIME.	No valid numbers found for your search. Please retry after sometime.
ESN0004	LIMIT_FOR_SEARCH_NUMBERS_EXCEEDED_FOR_YOUR_ENTITY.PLEASE_TRY_AFTER_SOMETIME.	Limit for search numbers exceeded for your entity. Please try after sometime.
EF0001	ERROR_WHILE_VALIDATING_REQUEST	Request could not be validated
EF0002	REQUEST_PARAMS_CANNOT_BE_NULL	request params are null
EF0003	INVALID_ORDERID	invalid orderId
EF0004	INVALID_ORDERTYPE	invalid order type
EF0005	ERROR_NUMBERS_NOT_RELATED_TO_THE_GIVEN_PON	numbers in the request are not related to the given PON
EF0006	ERROR_WHILE_DOING_NUMBER_SEARCH	error while searching for number
EF0007	EXCEPTION_WHILE_UPLOADING_FILE	uploading file encountered exception

EF0008	WEBSERVICE_EXCEPTION	webservice exception
EF0009	NPAC_EXCEPTION	NPACException
EF0010	INVALID_COUNTRY	Invalid Country Name/Code given in request
ESA001	SOA_ACTIVATION_SKIPPE D_ FOR_PEERLESS_NUMBER	SOA skipped for peerless number
ESA002	SOA_ACTIVATION_SKIPPE D_FOR_OFFNET_NUMBER	SOA skipped for offnet number

CNAM001	Length OF CNAM value should be more than 1 char.	Length OF CNAM value should be more than 1 char.
CNAM002	CNAM value doesnot contain any alpha-numeric value	CNAM value doesnot contain any alpha-numeric value
CNAM003	CNAM value cannot have first char. as *	CNAM value cannot have first char. as *
CNAM004	CNAM value contains unprintable ASCII characters (0-31) or special characters (or \" or \\) or extendable ASCII chars (>137)	CNAM value contains unprintable ASCII characters (0-31) or special characters (or \" or \\) or extendable ASCII chars (>137)

Example for getting error codes:

Request XML:

```
<pub:getOrderStatus>
  <!--Optional:-->
  <authentication>
    <!--Optional:-->
    <customer>test</customer>
  <!--Optional:-->
```

```
<passCode>testUserPassword</passCode>
<!--Optional:-->
<userId>adonelson@peerlessnetwork.com</userId>
</authentication>
<!--Optional:-->
<orderId>1231250342</orderId>
</pub:getOrderStatus>
```

Response XML:

```
<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
  <faultcode>EF0003</faultcode>
  <faultstring>INVALID_ORDERID</faultstring>
</S:Fault>
```

3.2 New Number Order

3.2.1 Search Inventory

This Operation will search the available inventory for numbers from Peerless.

Either of or all the State, LATA, RateCenter and NPA must be given. The quantity given would be multiplied with the quantity Multiplier value in the database to give you that many count of numbers.

The point of the quantity multiplier is to give you some options of TNs to select, without deviating significantly from industry guidelines that specify that TNs should be assigned sequentially in their respective blocks.

Also if the quantity given in the request is more than the threshold limit for that entity then total count of numbers in the result considered is threshold limit * quantityMultiplier otherwise quantity given in request * quantityMultiplier.

. Request XML

```
<pub:searchNumbers>
  <authentication>
    <customer>XXX</customer>
    <passCode>XXXXXX</passCode>
    <userId>XX.XX@XXX.com</userId>
  </authentication>
  <filters>
    <pon>?</pon>
    <states>
      <state></state>
    </states>
    <lata>
      <lata></lata>
    </lata>
  </filters>
</pub:searchNumbers>
```

```

</lata>
<locations>
  <location>?</location>
</locations>
<rateCenters>
  <rateCenter>?</rateCenter>
</rateCenters>
<npas>
  <npa>312</npa>
</npas>
<nxxs>
  <nxx></nxx>
</nxxs>
<quantity>4</quantity>
<consecutive>1</consecutive>
<vanityDigits>?</vanityDigits>
<categories>
  <category>1</category>
<category>2</category>
</categories>
<selectedTN>
  <tn>?</tn>
</selectedTN>
</filters>
</pub:searchNumbers>

```

Element	Mandatory	Occurrence	Constraints	Description
pon	No	0..1	Alphanumeric string (no space)	Describes user's Purchase Order Number
states	No	0..1	Wrapper on state	To search the inventory by state(s)
lata	No	0..1	Wrapper on lata	To search the inventory by LATA(s)
locations	No	0..1	Wrapper on location	To search the inventory by Location(s)
rateCenters	No	0..1	Wrapper on Rate center	To search the inventory by Rate Center(s)

state	Conditional	0..*	One of these element is mandatory	State Codes Like IL,CA,NY,...
lata	Conditional	0..*		LATA code like 358,
location	Conditional	0..*		Location name
rate center	Conditional	0..*		Rate center Code
npa	Conditional	0..*		NPA is 3 Digit Number
nxx	No	0..*	3 Digit number	
quantity	Yes	1	Valid Integer Number	Total count of result will depends upon quantity , threshold & Quantity multiplier
category	Yes	1..*	Possible values 1,2	Category availability is defined by Peerless (1 = Standard, 2 = Vanity)
consecutive	Yes	0..*	Min 1 , Max 9999	List of consecutive numbers in a row
vanity	No	0..*	Max Value 9999	This is a conditional Attribute enabled or disabled by Peerless
selectdtn	No	0..1		This gives the ability to select the numbers from a previous search. After 30 minutes of time (system configurable), if no action is taken on

				the selected numbers, those numbers will be unlocked and made available for other customers
Selectdtn	No	0..*		List of all the numbers selected and to be locked

. Response XML

<ns2:searchNumbersResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">

```

<return>
  <pon>PON-123</pon>
  <states>
    <state>IL</state>
  </states>
  <quantity>4</quantity>
  <categories>
    <category>1</category>
  </categories>
  <result>
    <tn>
      <number>2172100362</number>
      <category>1</category>
    </tn>
    <tn>
      <number>2172100371</number>
      <category>1</category>
    </tn>
    <tn>
      <number>2172100372</number>
      <category>1</category>
    </tn>
    <tn>
      <number>2172100373</number>
      <category>1</category>
    </tn>
  </result>
</return>
</ns2:searchNumbersResponse>

```

Element	Occurrence	Description
result	0..1	If search criteria found any results
tn	0...*	Specify telephone number with required details
number	1	Telephone number
category	1	Category of telephone number

NOTE: The searchNumbers API response may return Vanity numbers if the filters being searched do not have the quantity of Standard numbers requested – even if Category=1 is included in the request. The number category (Standard vs. Vanity) is returned in the response. If Vanity numbers are not wanted, then those numbers should be excluded from the subsequent placeOrder request.

3.2.2 Total available inventory

Using the above search Inventory request (3.2.1), users are able to find the total available inventory by passing the quantity value as 0 in the request XML

Request Xml

```
<filters>
  <states>
    <state>IL</state>
  </states>
  <quantity>0</quantity>
</filters>
```

Response Xml

```
<return>
  <states>
    <state>IL</state>
  </states>
  <quantity>0</quantity>
  <tnCount>289615</tnCount>
</return>
```

3.2.3 Get Search Filters

With this operation users can request a list of all possible additional filter options for a given filter

Request Xml

```
<filters>
  <states>
    <state>IL</state>
  </states>
</filters>
```

Element	Mandator y	Occurrence	Constraints	Description
states	No	0..1	Wrapper on state	To search the inventory by state(s)

lata	No	0..1	Wrapper on lata	To search the inventory by LATA(s)
------	----	------	-----------------	------------------------------------

locations	No	0..1	Wrapper on location	To search the inventory by Location(s)
rateCenters	No	0..1	Wrapper on Rate center	To search the inventory by Rate Center(s)
state	Conditional	0..1	One of these element is mandatory	State Codes Like IL,CA,NY,...
lata	Conditional	0..1		LATA code like 538,
location	Conditional	0..1		Location name
rateCenterCode	Conditional	0..1		Rate center Code
npa	No	0..*	3 Digit Number	
nxx	No	0..*	3 Digit number	

Response Xml

```

<ns2:getNewNumberSearchFiltersResponse
xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>
    <states>
      <state>IL</state>
    </states>
    <latas>
      <lata>977</lata>
      <lata>376</lata>
    </latas>
    <locations>
      <location>GREENVILLE</location>
      <location>ALGONQUIN</location>
    </locations>
    <rateCenters>
      <rateCenter>GREENVILLE</rateCenter>
      <rateCenter>ALGONQUIN</rateCenter>
    </rateCenters>
  </return>
</ns2:getNewNumberSearchFiltersResponse>

```

```

    <npa>773</npa>
    <npa>708</npa>
  </npas>
  <nxxs>
    <nxx>338</nxx>
    <nxx>942</nxx>
  </nxxs>
</return>
</ns2:getNewNumberSearchFiltersResponse>

```

Element	Occurrence	Description
states	0..1	To search the inventory by state(s)
latas	0..1	To search the inventory by LATA(s)
locations	0..1	To search the inventory by Location(s)
rateCenters	0..1	To search the inventory by Rate Center(s)
state	0..*	State Codes Like IL,CA,NY,...
lata	0..*	LATA code like 538,
location	0..*	Location name
ratecenter	0..*	Rate center Code
npa	0..*	Area Code
nxx	0..*	Prefix

3.2.4 Validation of User Address for E911

Users must validate addresses for E911 purposes. Requests including E911 must contain a validated address before being submitted. Zip Code is not a validated field and must be confirmed independently by the user.

Request Xml

```

<address>
  <streetNumber>600</streetNumber>
  <direction>N</direction>
  <streetName>Mc</streetName>
  <city>Chicago</city>
  <state>IL</state>
</address>

```

Element	Mandator y	Occur re nce	Contraints	Description
address	Yes	1		Address
streetNumber	Yes	1	Number	Street Number
direction	NO	1	single letter (N,E,W,S) in upper case	Direction ,possible values are N,E,W,S

streetName	Yes	1	String	Name of the street
city	Yes	1	String	Name of city like AVA, CHICAGO
state	Yes	1	String	code of the state IL ,CA,..

Response Xmln

```

<ns2:validateE911AddressResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>
    <streetNumber>600</streetNumber>
    <direction>N</direction>
    <streetName>MCBRIDE RD</streetName>
    <city>AVA</city>
    <state>IL</state>
  </return>
  <return>
    <streetNumber>600</streetNumber>
    <direction>N</direction>
    <streetName>MCLEANSBORO</streetName>
    <city>BENTON</city>
    <state>IL</state>
  </return>
  <return>
    <streetNumber>600</streetNumber>
    <direction>N</direction>
    <streetName>MCLEAN ST</streetName>
    <city>BLOOMINGTON</city>
    <state>IL</state>
  </return>
</ns2:validateE911AddressResponse>

```

NOTE: If a validated address is not returned, retry your address validation using less characters in the address and/or city fields. MSAG/Geo Coded address naming conventions do not necessarily match those of the USPS.

Element	Occurrence	Description
return	0..*	
streetNumber	1	Street Number
direction	1	Direction N,E,W,S, etc
streetName	1	Name of the street

city	1	Name of city like AVA, CHICAGO
state	1	code of the state IL ,CA,..

3.2.5 Create Exception Request

An Exception Request should be used in the event that your search results do not return the desired number availability. This request will generate an email notification to a designated Peerless representative to further investigate. Please include as many details of your desired request in the body of the email.

Request Xml

```
<excpetionNote>
  <emailId>?</emailId>
  <exceptionNote>?</exceptionNote>
  <subject>?</subject>
</excpetionNote>
```

Element	Mandator y	Occurrence	Constraints	Description
emailid	Yes	1	mandatory	Email Id to whom mail is to be sent
exceptionNote		1	mandatory	Body of the Email
subject	Yes	1	mandatory	Subject of the Email

Response Xml

```
<ns2:createExceptionResponse
xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>true</return>
</ns2:createExceptionResponse>
```

Element	Occurrence	Description
return	1	True if Submitted successfully, otherwise throws Exception.

3.2.6 Hierarchy view of available inventory

Enables a user to identify the full coverage area in Peerless Network's entire inventory by State, LATA, Rate Center, NPAs and NXXs.

Request Xml

```
<pub:getHierarchicalView>
  <authentication>
    <customer>ABCD</customer>
    <passCode>123123123</passCode>
    <userId>apiuser@abcd.com</userId>
  </authentication>
</pub:getHierarchicalView>
```

Response Xml

```
<ns2:getHierarchicalViewResponse
xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>
    <states>
      <state>
        <name>UT</name>
        <latas>
          <lata>
            <name>660</name>
            <rateCenters>
              <name>SALT LAKE</name>
              <npasVo>
                <name>385</name>
                <nxxVo>
                  <nxxs>881</nxxs>
                </nxxVo>
              </npasVo>
            </rateCenters>
          </lata>
        </latas>
      </state>
    </states>
  </return>
</ns2:getHierarchicalViewResponse>
```

```

        </lata>
    </state>
    <state> .....</state>
</states>
</return></ns2:getHierarchicalViewResponse>

```

3.2.7 getHierarchicalCount

Enables a user to identify the full coverage area in Peerless Network's entire inventory by State, LATA, Rate Center, NPAs and NXXs with their respective count.

Request Xml

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:getHierarchicalCount>
      <authentication>
        <customer>ABCD</customer>
        <passCode>123123123</passCode>
        <userId>apiuser@abcd.com</userId>
      </authentication>
      <filters>
        <states>
          <state>NJ</state>
        </states>
        <lata>
          <lata>224</lata>
        </lata>
        <rateCenters>
          <rateCenter>RIDGEWOOD</rateCenter>
        </rateCenters>
        <npas>
          <npa>201</npa>
        </npas>
      </filters>
    </pub:getHierarchicalCount>
  </soapenv:Body>
</soapenv:Envelope>

```

Response Xml

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getHierarchicalCountResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">

```

```
<return>
  <states>
    <state>
      <name>NJ</name>
      <latas>
        <lata>
          <name>224</name>
          <rateCenters>
            <rateCenter>
              <name>RAMSEY</name>
              <npas>
                <npa>
                  <name>201</name>
                  <nxxs>
                    <nxx>
                      <name>312</name>
                      <tnCount>4</tnCount>
                    </nxx>
                  </nxxs>
                </npa>
              </npas>
            </rateCenter>
            <rateCenter>
              <name>CLIFFSIDE</name>
              <npas>
                <npa>
                  <name>201</name>
                  <nxxs>
                    <nxx>
                      <name>366</name>
                      <tnCount>1</tnCount>
                    </nxx>
                  </nxxs>
                </npa>
              </npas>
            </rateCenter>
            <rateCenter>
              <name>OAKLAND</name>
              <npas>
                <npa>
                  <name>201</name>
                  <nxxs>
                    <nxx>
                      <name>644</name>
```

```

        <tnCount>1</tnCount>
      </nxx>
    </nxxs>
  </npa>
</npas>
</rateCenter>
<rateCenter>
  <name>RIDGEWOOD</name>
  <npas>
    <npa>
      <name>201</name>
      <nxxs>
        <nxx>
          <name>857</name>
          <tnCount>2</tnCount>
        </nxx>
      </nxxs>
    </npa>
  </npas>
</rateCenter>
</rateCenters>
</lata>
</lata>
</state>
</states>
</return>
</ns2:getHierarchicalCountResponse>
</S:Body>
</S:Envelope>

```

Element	Mandatory	Occurrence	Constraints	Description
STATE	NO	0..*	Min, Max Char Limit 2	Initials for the state. Describe state like IL for Illinois, IN for Indiana
LATA	NO	0..*	3 Digit Number	LATA code like 538,
RATECENTER	NO	0..*	String	Rate Center code
NPA	NO	0..*	3 Digit Number	Area Code

3.2.8 Place Order

Placing your order will begin the activation process of your selected numbers (3.2.1) This request includes features and destination instructions to provision your selected numbers. The Response XML indicating the order number is also listed below.

Peerless Message Provisioning: The message provisioning is similar to Sonus switch provisioning.

In this, we need to be able to set messaging as on/off/optional, like other features. Also we will be able to select the Msg feature and animate will send the request to the audiocodes API to provision the service AND send a request to NetNumber for SMS Enablement. Also, see a confirmation remark in the comments section of the order in the UI confirming successful API calls to both vendors, for provisioning/de-provisioning the numbers.

CNAM Storage: The CNAM Provisioning Service API is a Web service which provides customers the ability to update data stored in the Neustar CNAM database. Customer settings for CNAM Storage will remain as on/off/optional, like other features. To provision CNAM Storage you need to provide the CNAM string to be displayed up to 15 characters in the `cnamStorageName` field. *Both boolean (`cnamStorage`) and String (`cnamStorageName`) values for CNAM Storage are mandatory.* The following list contains the validations / requirements for the CNAM string value:

- At least one character must be alpha.
- The TN cannot be used as the calling name.
- The Calling Name String cannot contain a double quotation mark, pipe, or non printable characters (ascii < 32), and cannot begin with an asterisk or space.

A confirmation remark will appear in the comments section of the UI order, confirming successful CNAM Storage calls to Neustar, for provisioning/de-provisioning CNAM on numbers.

. Request XML

```
<pub:placeOrder>
  <authentication>
    <customer>XXXX</customer>
    <passCode>XXXX</passCode>
    <userId>XX@XXX.com</userId>
  </authentication>
  <order>
    <pon>?</pon>
    <orderType>?</orderType>
    <orderNumbers>
      <!--Zero or more repetitions:-->
      <number>
        <tn>?</tn>
        <mou>?</mou>
        <routeLabel>?</routeLabel>
        <cnamDelivery>?</cnamDelivery>
        <cnamStorage>?</cnamStorage>
```

```

<cnamStorageName>?</cnamStorageName>
<peerlessMsgProvisioning>?</peerlessMsgProvisioning>
<sms>?</sms>
<e911>?</e911>
<address>
  <number>?</number> --order
  <name>?</name> --order
  <streetNumber>?</streetNumber>
  <direction>?</direction>
  <streetName>?</streetName>
  <city>?</city>
  <state>?</state>
<zip>?</zip>
  <suite>?</suite>
</address>
</number>
</orderNumbers>
</order>
</pub:placeOrder>

```

Element	Mandator y	Occurr en ce	Constraints	Description
pon	No	0..1		Describes user's Purchase Order Number

orderType	Yes	1	To be set as one the following : (NN,CO,PI,P O ,DI)	Describes the type of the order being placed.
orderNu mb ers	Yes	1	Wrapper on number	Contains all the numbers and their details that are to be placed
Number	Yes	1..*	Wrapper on tn itself and also the features(rou tel abel, cnamDelive ry, mou, cnamStorag e.. .) to be associated with the	Contains the number and all the details associated to that number. If there are multiple occurrences of the tag then numbers this tag should be repeated and should

			number.	
tn	Yes	1	To be used inside number tag.	Describes the Number for which the order is being placed
routelabel	Yes	1	To be used inside number tag.	Describes the Destination's route label to be assigned to the number.
cnamDelivery	No	1	Possible values: true/false or 0/1	True/1 if CNAM Delivery feature is to be enabled else false/0
mou	Yes	1	Min Value 1	Descrlber
cnamStorage	No	1	Possible values: true/false or 0/1 Also a String value.	True/1 if CNAM Delivery feature is to be enabled else false/0. Both Boolean and String value for CNAM Storage is mandatory.
cnamStorageName	No	1	See CNAM Storage on prior page	Caller ID Name - Required if cnamStorage is True
peerlessMsgprovisioning	No	1	Possible values: true/false or 0/1	True/1 if peerlessMsg feature is to be enabled else false/0
sms	No	1	Possible values:	True/1 if the SMS feature is to be enabled else false/0

			true/false or 0/1	
e911	No	1	Possible values: true/false or 0/1	True/1 if the e911 feature is to be enabled else false/0

address	Conditional*	1	Wrapper on (streetNumber , direction, city, state, number, name, pin, suite)	Describes the E911 address to be related to the number. *If e911 enabled is Mandatory
streetNumber	No	1	Min Digit Limit 1	Street Number *If e911 is enabled
direction	Yes	1	Min Char Limit 1 Max Char Limit 4	direction like N,W,E,S,NE... *If e911 is enabled
streetName		1	should be a valid street name	Describes the name of the street like Chicago *If e911 is enabled
city	Yes	1	should be a valid city name	Describes the name of the city *If e911 is enabled
state	Yes	1	Min, Max Char Limit 2	Initials for the state. Describe state like IL for Illinois, IN for Indiana *If e911 is enabled
name	Yes	1		Describes the name of the customer *If e911 is enabled
zip	Yes	1	should contain either 5 Digits or 9 Digits	Describes the zip code *If e911 is enabled
suite	No	1		Apartment number, floor, suite

Response XML

If an "Error Message" is contained within the order number itself, it is a soft error. Soft errors do not prevent the order from being submitted, they just reference that there

is something about the order that needs to be manually looked at by Peerless.

```

    <ns2:placeOrderResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
      <return>123124894 This order has exceeded threshold limits ,
Required approval
    </return>
  </ns2:placeOrderResponse>

```

In the above example, a threshold was exceeded and requires a Peerless rep to manually approve it. If the order did not contain a soft error, you would just receive the order number back.

Element	Occurrence	Description
return	1	If order has been placed successfully returns a string with the Order No. describing the order has been placed successfully or as in the above case, describing that order has been placed successfully but order has exceeded some threshold limits

Or

For responses with an actual error that prevent the order from being submitted, you'll receive a fault code tag like in the example below.

```

<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
  <faultcode>EPNN003</faultcode>
  <faultstring>Validation failed for Requested Features[[E911]]</faultstring>
</S:Fault>

```

Element	Occurrence	Description
Fault	1	If an error has occurred while processing the request, a fault code with the fault string will be returned
faultcode	1	Contains the fault code
faultstring	1	Contains the description of the fault code

3.2.9 Get Order Status Request

. Request XML

```

<pub:getOrderStatus>
  <authentication>
    <customer>PEERLESS</customer>

```

```

    <passCode>!@#%&*&^%$#@!</passCode>
    <userId>user1@company.com</userId>
  </authentication>
  <orderId>?</orderId>
  <pageNumber>?</pageNumber>
</pub:getOrderStatus>

```

Element	Mandatory	Occurrence	Constraints	Description
orderId	Yes	1	Valid Integer	Order ID belongs the customer
pageNumber	Yes	1	Valid Integer	Page Number (The sequence no of indexed pages of telephone numbers) e.g. 1 etc

NOTE : As a security constraint order should belong to the same entity who placed the order, else it will gives an error

. Response XML

```

<ns2:getOrderStatusResponse
xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>NPAC_PENDING</return>
</ns2:getOrderStatusResponse>

```

```

<ns2:getOrderStatusResponse
xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>PARTIAL_FAILURE, Reason:Onnet Number : CNAM Storage
provisioning failed for 2 numbers, Failed TNS : [xxxxxxx, xxxxxxx]</return>
</ns2:getOrderStatusResponse>

```

Error messages when wrong input is entered in xml tags:

1. When a user adds the exceeds the pin dex page number then the error message shown as "No TN is available for the given page number, please try with reduced page number."

Example:

```

<pub:getOrderStatus>
  <authentication>
    <customer>PEERLESS</customer>
    <passCode>!@#%&*&^%$#@!</passCode>

```

```

    <userId>user1@company.com</userId>
  </authentication>
  <orderId>?</orderId>
  <pageNumber>10</pageNumber>
</pub:getOrderStatus>

```

RESPONSE:

<return>No TN is available for the given page number, please try with reduced page number.</return>

Element	Occurrence	Description
return	1	Return with Order Status

List of Order Status Values by Order Type:

Response	Order Type	Response	Order Type
IN_PROCESS	PORT_IN	IN_PROCESS	PORT_OUT
CREATED	PORT_IN	CREATED	PORT_OUT
PENDING_APPROVAL	PORT_IN	FOC_PENDING	PORT_OUT
PENDING_CSR	PORT_IN	FOC_ISSUED	PORT_OUT
PENDING_LSR	PORT_IN	FOC_PERIOD	PORT_OUT
FOC_PENDING	PORT_IN	PARTIAL_FAILURE	PORT_OUT
FOC_RECEIVED	PORT_IN	RESUBMITTED	PORT_OUT
TNS_ACTIVATED	PORT_IN	FAILED	PORT_OUT
PARTIAL_FAILURE	PORT_IN	CLOSED	PORT_OUT
RESUBMITTED	PORT_IN	CANCELED_PARTIAL	PORT_OUT
REJECTED	PORT_IN	CANCELED	PORT_OUT
CLOSED	PORT_IN	CLARIFICATION_REQUESTED	PORT_OUT
NPAC_SUBSCRIPTION_BUILT	PORT_IN	PROVISIONING_IN_PROGRESS	PORT_OUT
CANCELED	PORT_IN	REJECTED (along with reject message)	PORT_OUT

CLARIFICATION_REQUESTED	PORT_IN	IN_PROCESS	DISCONNECT
NPAC_PENDING	PORT_IN	CREATED	DISCONNECT

PROVISIONING_IN_PROCESS	PORT_IN	NPAC_PENDING	DISCONNECT
NPAC_ACTIVATION_IS_IN_PROGRESS	PORT_IN	PARTIAL_FAILURE	DISCONNECT
IN_PROCESS	NEW_NUMBER	RESUBMITTED	DISCONNECT
CREATED	NEW_NUMBER	CLOSED	DISCONNECT
PENDING_APPROVAL	NEW_NUMBER	CANCELED	DISCONNECT
PENDING_FEATURES	NEW_NUMBER	PROVISIONING_IN_PROCESS	DISCONNECT
SUBMITTED	NEW_NUMBER	SUBMITTED	DISCONNECT
PROVISIONING_IN_PROCESS	NEW_NUMBER	SUBMITTED	CHANGE_ORDER
PARTIAL_FAILURE	NEW_NUMBER	IN_PROCESS	CHANGE_ORDER
RESUBMITTED	NEW_NUMBER	CREATED	CHANGE_ORDER
NPAC_PENDING	NEW_NUMBER	CHANGES_ACTIVATED	CHANGE_ORDER
FAILED	NEW_NUMBER	PARTIAL_FAILURE	CHANGE_ORDER
CLOSED	NEW_NUMBER	RESUBMITTED	CHANGE_ORDER
REJECTED	NEW_NUMBER	CLOSED	CHANGE_ORDER

CANCELED	NEW_NUMBER	CANCELED	CHANGE_ORDER
	NEW_NUMBER	CNAM_STORAGE_PENDING	CHANGE_ORDER
		PROVISIONING_IN_PROGRESS	CHANGE_ORDER

3.2.10 Upload Attachments

. Request XML

```

<pub:upload>
  <authentication>
    <customer>ABCD</customer>
    <passCode>123123123</passCode>
    <userId>apiuser@abcd.com</userId>
  </authentication>
  <orderId>18376</orderId>
  <attachments>
    <fileContent>cid:312194349678</fileContent>
    <fileName>UI.log</fileName>
  </attachments>
  <attachments>
    <fileContent>cid:312194349679</fileContent>
    <fileName>UIErr.log</fileName>
  </attachments>
</pub:upload>

```

. Response XML

```

<ns2:uploadResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>true</return>
</ns2:uploadResponse>

```

3.2.11 Download Attachments

. Request XML

```

<pub:download>
  <authentication>
    <customer>ABCD</customer>
    <passCode>123123123</passCode>
    <userId>apiuser@abcd.com</userId>

```

```

    </authentication>
    <orderId>19015</orderId>
  </pub:download>

```

. Response XML

```

<ns2:downloadResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>
    <fileContent>PD94bWwgdmVyc2lv .....</fileContent>
    <fileName>APIService.xml</fileName>
  </return>
  <return>
    <fileContent>PD94bWwgdmVyc2lv .....</fileContent>
    <fileName>APIService.xsd</fileName>
  </return>
</ns2:downloadResponse>

```

3.2.12 Add notes to an Order

Request Xml

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:addNotes>
      <authentication>
        <customer>XXXX</customer>
        <passCode>XXXXX</passCode>
        <userId>XXXXX@XXX.com</userId>
      </authentication>
      <orderId>12345</orderId>
      <notes>test notes</notes>
    </pub:addNotes>
  </soapenv:Body>
</soapenv:Envelope>

```

Element	Mandator y	Occurrence	Constraints	Description
orderId	Yes	1	mandatory	OrderId to add notes.
notes	Yes	1	mandatory	Note to be added

Response Xml

```

<ns2:getOrderStatusResponse
xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>REJECTED</return>
</ns2:getOrderStatusResponse>

```

Element	Occurrence	Description
return	1	Status of the Order

3.3 Port In Order

NOTE : Get order status, upload attachments, download attachments and adding notes are generic implementation for all the order types

3.3.1 Place Order

. Request XML

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:placeOrder>
      <authentication>
        <customer>test</customer>
        <passCode>*****</passCode>
        <userId>testuser@test.com</userId>
      </authentication>
      <order>
        <pon>124171</pon>
        <orderType>PI</orderType>
        <orderNumbers>
          <number>
            <tn>3602090441</tn>
            <mou>1</mou>
            <routeLabel>PROV_TEST</routeLabel>
            <cnamDelivery>>false</cnamDelivery>
            <cnamStorage>>true</cnamStorage>
            <cnamStorageName>CNAMTestName</cnamStorageName>
          </number>
          <peerlessMsgProvisioning>?</peerlessMsgProvisioning>
          <sms>>false</sms>
          <e911>>false</e911>
          <address>
            <number>?</number>
            <name>?</name>
            <streetNumber>?</streetNumber>
            <direction>?</direction>
            <streetName>?</streetName>
            <city>?</city>
            <state>?</state>
            <zip>?</zip>
          </address>
        </orderNumbers>
      </order>
    </pub:placeOrder>
  </soapenv:Body>
</soapenv:Envelope>

```

```

        <suite>?</suite>
    </address>
</number>
</orderNumbers>
<orderDetails>
    <accountNumber>1230009</accountNumber>
    <atn>121111113</atn>
    <authDate>2016-05-05</authDate>
    <authnm>2121323</authnm>
    <city>chicago</city>
    <desiredDueDate>2016-05-05 11:06:37 AM</desiredDueDate>
    <dueDate>2016-05-05 11:06:37 AM</dueDate>
    <earliestPossible>>false</earliestPossible>
    <timezone>CT</timezone>

    <endCustomerName>aasasas</endCustomerName>
    <mi>C</mi>
    <npdi>D</npdi>
    <sanoHouseNumber>1212</sanoHouseNumber>
    <sasnStrName>ccxcx</sasnStrName>
    <state>IL</state>
    <telephoneNumber>2013014444</telephoneNumber>
    <zipCode>121213</zipCode>
</orderDetails>
</order>
</pub:placeOrder>
</soapenv:Body>
</soapenv:Envelope>

```

Element	Man dat ory	Occurr en ce	Constraints	Description
pon	Yes	1		Describes user's Purchase Order Number
orderType	Yes	1	To be set as one the following : (NN,CO,PI,PO ,DI)	Describes the type of the order being placed. for port in PI
orderNumber s	Yes	1	Wrapper on number	Contains all the numbers and their details that are to be placed

Number	Yes	1..*	Wrapper on tn itself and also the features(routelabel, cnamDelivery, mou, cnamStorage..) to be associated with the number.	Contains the number and all the details associated to that number. If there are multiple occurrences of the tag then numbers this tag should be repeated and should
tn	Yes	1	To be used inside number tag.	Describes the Number for which the order is being placed
routelabel	Yes	1	To be used inside number tag.	Describes the Destination's route label to be assigned to the number.
cnamDelivery		1	Possible values: true/false or 0/1	True/1 if CNAM Delivery feature is to be enabled else false/0
mou	Yes	1	Min Value 1	Describes the Minutes Of Usage to be assigned to the number
cnamStorage		1	Possible values: true/false or 0/1. Also a String	True/1 if CNAM Delivery feature is to be enabled else false/0. Both Boolean and String value for CNAM Storage are mandatory.

			value	
cnamStorageName	No	1	See CNAM Storage on prior page	Caller ID Name - Required if cnamStorage is True
peerlessMsgProvisioning	No	1	Possible values: true/false or 0/1	True/1 if peerlessMsg feature is to be enabled else false/0

sms	No	1	Possible values: true/false or 0/1	True/1 if SMS feature is to be enabled else false/0
e911	No	1	Possible values: true/false or 0/1	True/1 if e911 feature is to be enabled else false/0
address	Condi tional *	1	Wrapper on (streetNumber, direction, city, state, number, name, pin, suite)	Describes the E911 address to be related to the number. *If e911 enabled is true then address in Mandatory
streetNumber		1	Min Digit Limit 1	These categories are controlled by Peerless for given entity *If e911 is enabled
direction	Yes	1	Min Char Limit 1 Max Char Limit 4	direction like N,W,E,S,NE... *If e911 is enabled
streetName	Yes	1	should be a valid street name	Describes the name of the street like Chicago *If e911 is enabled
city	Yes	1	should be a valid city name	Describes the name of the city *If e911 is enabled
state	Yes	1	Min, Max Char Limit 2	Initials for ths state. Describe state like IL for Illinois, IN for INDIANA *If e911 is enabled
name	Yes	1		Describes the name of the customer *If e911 is enabled

zip	Yes	1	should contain either 5 Digits or 9 Digits	Describes the zip code *If e911 is enabled
suite	No	1		Apartment Number
accountNumber	Yes	1		
act	No	1		
atn	Yes	1		
authDate	Yes	1	Date	2016-05-05 (yyyy-mm-dd)
authnm	Yes	1		
bldg	No	1		
cc	No	1		
ccna	No	1		
chc	No	1		
city	Yes	1		
desiredDueDate	Yes	1	Date Time	2016-06-05 11:06:37 AM (yyyy-mm-dd HH:mm:ss AM/PM)
earliestPossible		1	Possible Values: Any	Only false(0) will be sent to DB no matter what value is sent in API
timezone	Yes	1	Possible Values: CT,PT,IST,GMT,ET,MT	Error on providing invalid values
endCustomerName	Yes	1		
faxNumber	No	1		
floor	No	1		
init	No	1		

mi	Yes	1	Possible values:A-Partial, C-Full	
newAtn	Conditional	1	Mandatory if MI='A'	
nnspl	No	1		
npdi	Yes	1	Possible values:C-Wireline to Wireless, D-Wireline to Wireline	
remarks	No	1		

room	No	1		
sadloAddition allInfo	No	1		
sanoHouse Number	Yes	1		
saprHouse Prefix	No	1		
sasdStrDir	No	1		
sasfHouse NumberSuffix	No	1		
sasnStrName		1		
sassStrSuffix		1		
sath	No	1		
state	Yes	1		

telephone Number	Yes	1		
wirelessPin	Conditional	1	if npdi='C'	
zipCode	Yes	1		

. Response XML

```
<ns2:placeOrderResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>PI-24894,PI-24895
</return>
</ns2:placeOrderResponse>
```

Element	Occurrence	Description
return	1	If order has been placed successfully returns a string with one Order No , if only one order is created ,else it will return all order numbers with comma separated in case order has decomposed into multiple orders

3.3.2 Supplement requests for PortIn order

Supplement Types <type> 1.cancel 2- change due date, 3- all other
 For supplement the value needs to be : <supplement>1</supplement>

With every supp a new orderId would be generated.
 Also the <dueDate> value needs to be updated only when you want to supp to change the due date i.e. use Type=2 else you may wish to leave it blank.

1. Invalid Order

Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:supplementOrder>
      <!--Optional:-->
      <authentication>
        <!--Optional:-->
        <customer>****</customer>
```

```
<!--Optional:-->
<passCode>****</passCode>
<!--Optional:-->
<userId>****</userId>
</authentication>
<!--Optional:-->
<supplementInfo>
  <orderId>269958</orderId>
  <type></type>
  <!--Optional:-->
  <dueDate>2017-08-30T11:11:11</dueDate>
</supplementInfo>
<!--Optional:-->
<order>
  <!--Optional:-->
  <pon>12342</pon>
  <!--Optional:-->
  <orderType>PI</orderType>
  <!--Optional:-->
  <orderNumbers>
    <!--Zero or more repetitions:-->
    <number>
      <!--Optional:-->
      <tn>4105550000</tn>
      <!--Optional:-->
      <mou>1</mou>
      <!--Optional:-->
      <routeLabel>TEST_01</routeLabel>
    </number>
  </orderNumbers>
  <!--Optional:-->
  <orderDetails>
    <accountNumber>34567890</accountNumber>
    <atn>4365364354</atn>
    <authDate>2018-02-25</authDate>
    <authnm>4353465</authnm>
    <city>CHICAGO</city>
    <desiredDueDate>2018-03-02 04:30:00 AM</desiredDueDate>
    <timezone>CT</timezone>
    <endCustomerName>testing</endCustomerName>
    <mi>C</mi>
    <npdi>D</npdi>
    <nnsps>D</nnsps>
    <sanoHouseNumber>2</sanoHouseNumber>
```

```

        <asnStrName>STAG CT</asnStrName>
        <state>NY</state>
        <telephoneNumber>7184505555</telephoneNumber>
        <zipCode>10901</zipCode>
    </orderDetails>
</order>
</pub:supplementOrder>
</soapenv:Body>
</soapenv:Envelope>

```

2. Change due date (type 2) : Giving due date is mandatory for Type 2

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:supplementOrder>
      <!--Optional:-->
      <authentication>
        <!--Optional:-->
      <customer>****</customer>
        <!--Optional:-->
        <passCode>****</passCode>
        <!--Optional:-->
        <userId>****</userId>
      </authentication>
      <!--Optional:-->
      <supplementInfo>
        <orderId>269748</orderId>
        <type>2</type>
        <!--Optional:-->
        <dueDate>2017-08-11T11:11:11</dueDate>
      </supplementInfo>
      <!--Optional:-->
      <order>
        <!--Optional:-->
        <orderDetails>
          <accountNumber>1230009</accountNumber>
          <atn>121111113</atn>
          <authDate>2016-05-05</authDate>
          <authnm>2121323</authnm>
          <city>chicago</city>
          <desiredDueDate>2016-05-05 11:06:37 AM</desiredDueDate>
          <timezone>CT</timezone>
        </orderDetails>
      </order>
    </pub:supplementOrder>
  </soapenv:Body>
</soapenv:Envelope>

```

```

                <endCustomerName>aasasas</endCustomerName>
                <mi>C</mi>
                <npdi>D</npdi>
                <sanoHouseNumber>1212</sanoHouseNumber>
                <sasnStrName>ccxcx</sasnStrName>
                <state>IL</state>
                <telephoneNumber>2013014444</telephoneNumber>
                <zipCode>121213</zipCode>
            </orderDetails>
        </order>
    </pub:supplementOrder>
</soapenv:Body>
</soapenv:Envelope>

```

2. Cancel (type 1)

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
    <soapenv:Header/>
    <soapenv:Body>
        <pub:supplementOrder>
            <!--Optional:-->
            <authentication>
                <!--Optional:-->
            <customer>****</customer>
                <!--Optional:-->
                <passCode>****</passCode>
                <!--Optional:-->
                <userId>****</userId>
            </authentication>
            <!--Optional:-->
            <supplementInfo>
                <orderId>269748</orderId>
                <type>1</type>
                <!--Optional:-->
                <dueDate>2017-08-11T11:11:11</dueDate>
            </supplementInfo>
            <!--Optional:-->
        </order>
            <!--Optional:-->
            <orderDetails>
                <accountNumber>1230009</accountNumber>
                <atn>1211111113</atn>
                <authDate>2016-05-05</authDate>
                <authnm>2121323</authnm>
                <city>chicago</city>
            </orderDetails>
        </order>
    </pub:supplementOrder>
</soapenv:Body>
</soapenv:Envelope>

```

```

<desiredDueDate>2016-05-05 11:06:37 AM</desiredDueDate>
<timezone>CT</timezone>
<endCustomerName>aasasas</endCustomerName>
<mi>C</mi>
<npdi>D</npdi>
<sanoHouseNumber>1212</sanoHouseNumber>
<sasnStrName>ccxcx</sasnStrName>
<state>IL</state>
<telephoneNumber>2013014444</telephoneNumber>
<zipCode>121213</zipCode>
</orderDetails>

```

```
</order>
```

```
</pub:supplementOrder>
```

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

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

Element	Mandatory	Occurrence	Constraints	Description
supplement Info	Yes	1	Wrapper for Supplement data	
orderId	Yes	1	Integer	Should be valid* open PI Order
type	Yes	1	possible values 1,2,3	1- cancel , 2- change due date , 3-others
dueDate	Conditional	1	if type=2	yyyy-MM-ddTHH:mm:ss
if type=3 , it is required to provide full details of the order like pon , orderNumbers , orderDetails (refer to place order XML)				
pon	conditional(if Type=3)	1	purchase order number	Shouldn't be different from actual
orderType	conditional(if Type=3)	1	PI	Type of the order

orderNumbers	conditional(if Type=3)	1	Wrapper on number	If a number missing in request will be considered as removed , and new number appear in request will be treated as added to order
orderDetails	conditional(if Type=3)		Wrapper on details	all mandatory data should be provided , because it will replace with latest data

* order status should be closed order or status not crossed FOC_RECIEVED ,....

. Response XML

if (type = 1 or type =2)

<return>Successfully supplemented the Order</return>

if (type = 3)

<return>PI-24894,PI-24895</return>

Element	Occurrence	Description
return	1	If order has been placed successfully returns a string with one Order No , if only one order is created ,else it will return all order numbers with comma separated in case of order has decomposed into multiple orders

3.3.3 Related Order

In the case of related order search, whenever we give the order id of a Port In order in the request we get the related orders with respect to the order id given in the request. In case related orders do not exist then a message saying that “Not able to find any related orders for this order id” will be displayed.

(Order id is **not** to be prepended by any alphanumeric characters e.g. : PI-10005)

Below is an example to help with the Port In Order related orders search:

. Request XML

<pub:getPortInRelatedOrders>

<!--Optional:-->

<authentication>

<!--Optional:-->

```

<customer>DummyTestEntity</customer>
<!--Optional:-->
<passCode>testUserPassword</passCode>
<!--Optional:-->
<userId>adonelson@peerlessnetwork.com</userId>
</authentication>
<!--Optional:-->
<orderId>10005</orderId>
</pub:getPortInRelatedOrders>

```

Element	Mandatory	Occurrence	Constraints	Description
orderId	Yes	1	Integer	Should be valid PI Order

. Response XML

```

<ns2:getPortInRelatedOrdersResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>
    <result>
      <relatedOrders>
        <orderNumber>10007</orderNumber>
        <pon>123</pon>
        <numberOfTNs>1</numberOfTNs>
        <carrier>SPRINT PCS</carrier>
        <status>PENDING_CSR</status>
        <FOCDateSync>yes</FOCDateSync>
      </relatedOrders>
      <relatedOrders>
        <orderNumber>10010</orderNumber>
        <pon>123</pon>
        <numberOfTNs>111</numberOfTNs>
        <carrier>VERIZON WIRELESS</carrier>
        <status>PENDING_CSR</status>
        <FOCDateSync>yes</FOCDateSync>
      </relatedOrders>
    </result>
  </return>
</ns2:getPortInRelatedOrdersResponse>

```

```

    </result>
  </return>
</ns2:getPortInRelatedOrdersResponse>

```

Element	Occurrence	Description
relatedOrders	0..*	wrapper for related order information
orderNumber	1	Order number of a related order
pon	1	PON of related order
numberOfTNS	1	total number of telephone numbers in order
carrier	1	carrier name of order
status	1	order status of PI order
FOCDateSync	1	sync status of FOC

3.3.4 Portability Check

Provides ability to API user to check if the tn's are portable or not(Checks for Onnet and offnet footprints and real-time npac lookup). In response return the same attributes as returned for a PI order on attribute(2nd) page.

Request XML:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:portabilityCheck>
      <!--Optional:-->
      <authentication>
        <!--Optional:-->
        <customer>xxxxxx</customer>
        <!--Optional:-->
        <passCode>XXXXXXXX</passCode>
        <!--Optional:-->
        <userId>xxxx@yahoo.com</userId>
      </authentication>
      <!--Optional:-->
    </portabilityCheckRequest>
  </soapenv:Body>
</soapenv:Envelope>

```



```
<!--Optional:-->
<tns>
  <!--Zero or more repetitions:-->
  <tns>2073610000</tns>
  <tns>2034899079</tns>
</tns>
</portabilityCheckRequest>
</pub:portabilityCheck>
</soapenv:Body>
</soapenv:Envelope>
```

Response XML:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:portabilityCheckResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
      <return>
        <portPsNumbers>
          <portPsNumber>
            <number>2073610000</number>
            <rateCenter>YORK</rateCenter>
            <lata>120</lata>
            <state>ME</state>
            <location>YORK</location>
            <ocn>S-5205</ocn>
            <provider>VZB</provider>
            <offNet>true</offNet>
            <portable>Yes</portable>
          </portPsNumber>
          <portPsNumber>
            <number>2034899079</number>
            <rateCenter>GREENWICH</rateCenter>
            <lata>132</lata>
            <state>CT</state>
            <location>GREENWICH</location>
            <carrierName>PEERLESS NETWORKS</carrierName>
            <ocn>S-063E</ocn>
            <ocnName>PEERLESS NETWORKS</ocnName>
            <provider>Peerless</provider>
            <offNet>false</offNet>
            <portable>Yes</portable>
          </portPsNumber>
        </portPsNumbers>
      </return>
    </ns2:portabilityCheckResponse>
```

```
</S:Body>
</S:Envelope>
```

3.4 Port Out order (non-Customer request type)

NOTE : Get order status, upload/view attachments, download attachments and adding/view notes are generic implementation for all the order types.

3.4.1 Place Order

This is to place an order for Port Out.

Request XML:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:placeOrder>
      <!--Optional:-->
      <authentication>
        <customer>*****</customer>
        <!--Optional:-->
        <passCode>*****</passCode>
        <!--Optional:-->
        <userId>*****@*****.com</userId>
      </authentication>
      <!--Optional:-->
      <order>
        <!--Optional:-->
        <pon>88869111</pon>
        <!--Optional:-->
        <orderType>PO</orderType>
        <!--Optional:-->
        <orderNumbers>
          <!--Zero or more repetitions:-->
          <number>
            <tn>7066084686</tn>
          </number>
          <number>
            <tn>7066084689</tn>
          </number>
        </orderNumbers>
        <!--Optional:-->
        <orderDetails>
```

```

<accountNumber>34567890</accountNumber>
<atn>4365364354</atn>
<authDate>2018-10-05</authDate>
<authnm>4353465</authnm>
<city>CHICAGO</city>
<desiredDueDate>2018-10-26 04:30:00 AM</desiredDueDate>
<timezone>CT</timezone>
<endCustomerName>testing</endCustomerName>
<mi>C</mi>
<npdi>D</npdi>
<nns>D</nns>
<sanoHouseNumber>2</sanoHouseNumber>
<sasnStrName>STAG CT</sasnStrName>
<state>NY</state>
<telephoneNumber>7184505555</telephoneNumber>
<zipCode>10901</zipCode>
</orderDetails>
</order>
</pub:placeOrder>
</soapenv:Body>
</soapenv:Envelope>
</soapenv:Envelope>

```

Element	Mandatory	Occurrence	Constraints	Description
pon	Yes	1		Describes user's Purchase Order Number
orderType	Yes	1	To be set as one the following : (NN,CO,PI,PO,DI)	Describes the type of the order being placed. for port out PO
orderNumbers	Yes	1	Wrapper on number	Contains all the numbers and their details that are to be placed
Number	Yes	1..*	Wrapper on tn itself and also the features(routelabel, cnamDelivery, mou, cnamStorage...)	Contains the number and all the details associated to that number. If there are multiple occurrences of the tag then numbers this tag should be repeated and should

			to be associated with the number.	
tn	Yes	1	To be used inside number tag.	Describes the Number for which the order is being placed
routelabel	No	1	To be used inside number tag.	Describes the Destination's route label to be assigned to the number.
cnamDelivery	No	1	Possible values: true/false or 0/1	True/1 if CNAM Delivery feature is to be enabled else false/0
mou	No	1	Min Value 1	Describes the Minutes Of Usage to be assigned to the number
cnamStorage	No	1	Possible values: true/false or 0/1. Also a String	True/1 if CNAM Delivery feature is to be enabled else false/0. Both Boolean and String value for CNAM

			value.	Storage are mandatory.
cnamStorageName	No	1	See CNAM Storage on prior page	Caller ID Name - Required if cnamStorage is True
peerlessMsgProvisioning	No	1	Possible values: true/false or 0/1	True/1 if peerlessMsg feature is to be enabled else false/0
sms	No	1	Possible values: true/false or 0/1	True/1 if SMS feature is to be enabled else false/0
e911	No	1	Possible values: true/false or 0/1	True/1 if e911 feature is to be enabled else false/0

address	Condi tio nal*	1	Wrapper on (streetNum ber, direction, city, state, number, name, pin, suite)	Describes the E911 address to be related to the number. *If e911 enabled is true then address in mandatory.
streetNumber	No	1	Min Digit Limit 1	These categories are controlled by Peerless for given entity *If e911 is enabled
direction	Yes	1	Min Char Limit 1 Max Char Limit 4	direction like N,W,E,S,NE... *If e911 is enabled
streetName	Yes	1	should be a valid street name	Describes the name of the street like Chicago *If e911 is enabled
city	Yes	1	should be a valid city name	Describes the name of the city *If e911 is enabled
state	Yes	1	Min, Max Char Limit 2	Initials for ths state. Describe state like IL for Illinois, IN for Indiana *If e911 is enabled
name	Yes	1		Describes the name of the customer *If e911 is enabled
zip	Yes	1	should contain either 5 Digits or 9 Digits	Describes the zip code *If e911 is enabled
suite	No	1		Apartment number, floor, suite
accountNumbe		1		

r				
---	--	--	--	--

act	No	1		
atn	Yes	1		
authDate	Yes	1	Date	2016-10-05 (mm-dd-yyyy)
authnm	Yes	1		
bldg	No	1		
cc	No	1		
ccna	No	1		
chc	No	1		
city	Yes	1		
desiredDue Date	Yes	1	Date Time	2018-01-24 06:17:12 PM (mm-dd-yyyy HH:mm:ss AM/PM)
earliestPoss ible		1		
timezone	Yes	1	Possible Values: CT,PT,IST,GMT,E T,MT	Error on providing invalid values
endCustome rName	Yes	1		
faxNumber	No	1		
floor	No	1		
init	No	1		
mi	Yes	1	Possible values:A-Parti al, C-Full	
newAtn	Condi tio nal	1	Mandatory if MI='A'	
nnspp	Yes	1		

npdi	Yes	1	Possible values:C-Wireline to Wireless, D-Wireline to Wireline	
remarks	No	1		
room	No	1		
sadloAdditional Info	No	1		
sanoHouse Number	Yes	1		
saprHouseP		1		

x				
sasdStrDir	No	1		
sasfHouseNumberSuffix	No	1		
sasnStrName	Yes	1		
sassStrSuffix	No	1		
sath	No	1		
state	Yes	1		
telephoneNumber	Yes	1		
version	No	1		
wirelessPin	Conditional	1	if npdi='C'	
zipCode	Yes	1		

Response XML:

```
<ns2:placeOrderResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>PO-25040</return>
</ns2:placeOrderResponse>
```

Element	Occurrence	Description
return	1	If order has been placed successfully returns a string with one Order No , if only one order is created ,else it will return all order numbers with comma separated in case order has decomposed into multiple orders

To supplement the PortOut order use the below supplement types and example requests:

Supplement Types <type> 1.cancel 2- change due date, 3- all other
 For supplement the value needs to be : <supplement>1</supplement>

With every supp a new orderId would be generated.
 Also the <dueDate> value needs to be updated only when you want to supp to change the due date i.e. use Type=2 else you may wish to leave it blank.

Original PO order (above) had 2 numbers. It is now supplemented with type - 3 and one more number is being added. So total 3 numbers.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:supplementOrder>
      <!--Optional:-->
      <authentication>
        <customer>*****</customer>
        <!--Optional:-->
        <passCode>*****</passCode>
        <!--Optional:-->
        <userId>*****</userId>
      </authentication>
      <!--Optional:-->
      <supplementInfo>
        <orderId>269958</orderId>
        <type>3</type>
        <!--Optional:-->
        <dueDate>2017-08-30T11:11:11</dueDate>
      </supplementInfo>
      <!--Optional:-->
```



```
<order>
  <!--Optional:-->
  <pon>88869111</pon>
  <!--Optional:-->
  <orderType>PO</orderType>
  <!--Optional:-->
  <orderNumbers>
    <!--Zero or more repetitions:-->
    <number>
      <!--Optional:-->
      <tn>7066084686</tn>
    </number>
    <number>
      <!--Optional:-->
      <tn>7066084689</tn>
    </number>
    <number>
      <!--Optional:-->
      <tn>7066084841</tn>
    </number>
  </orderNumbers>
  <!--Optional:-->
  <orderDetails>
    <accountNumber>34567890</accountNumber>
    <atn>4365364354</atn>
    <authDate>2018-02-25</authDate>
    <authnm>4353465</authnm>
    <city>CHICAGO</city>
    <desiredDueDate>2018-03-02 04:30:00 AM</desiredDueDate>
    <timezone>CT</timezone>
    <endCustomerName>testing</endCustomerName>
    <mi>C</mi>
    <npdi>D</npdi>
    <nnspace>D</nnspace>
    <sanoHouseNumber>2</sanoHouseNumber>
    <sasnStrName>STAG CT</sasnStrName>
    <state>NY</state>
    <telephoneNumber>7184505555</telephoneNumber>
    <zipCode>10901</zipCode>
  </orderDetails>
</order>
</pub:supplementOrder>
</soapenv:Body>
</soapenv:Envelope>
```

Supp Type-3 : total 3 nos. by previous order, removing 2 numbers

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:supplementOrder>
      <!--Optional:-->
      <authentication>
        <customer>****</customer>
        <!--Optional:-->
        <passCode>*****</passCode>
        <!--Optional:-->
        <userId>*****</userId>
      </authentication>
      <!--Optional:-->
      <supplementInfo>
        <orderId>269958</orderId>
        <type>3</type>
        <!--Optional:-->
        <dueDate>2017-08-30T11:11:11</dueDate>
      </supplementInfo>
      <!--Optional:-->
      <order>
        <!--Optional:-->
        <pon>88869111</pon>
        <!--Optional:-->
        <orderType>PO</orderType>
        <!--Optional:-->
        <orderNumbers>
          <!--Zero or more repetitions:-->
          <number>
            <!--Optional:-->
            <tn>7066084686</tn>
          </number>
        </orderNumbers>
        <!--Optional:-->
        <orderDetails>
          <accountNumber>34567890</accountNumber>
          <atn>4365364354</atn>
          <authDate>2018-02-25</authDate>
          <authnm>4353465</authnm>
          <city>CHICAGO</city>
          <desiredDueDate>2018-03-02 04:30:00 AM</desiredDueDate>
          <timezone>CT</timezone>
```

```

    <endCustomerName>testing</endCustomerName>
    <mi>C</mi>
    <npdi>D</npdi>
    <nmsp>D</nmsp>
    <sanoHouseNumber>2</sanoHouseNumber>
    <sasnStrName>STAG CT</sasnStrName>
    <state>NY</state>
    <telephoneNumber>7184505555</telephoneNumber>
    <zipCode>10901</zipCode>
  </orderDetails>
</order>
</pub:supplementOrder>
</soapenv:Body>
</soapenv:Envelope>

```

Use format of duedate as yyyy-MM-ddTHH:mm:ss (if type=2)

```
<dueDate>2017-09-02T11:11:11</dueDate>
```

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:supplementOrder>
      <!--Optional:-->
      <authentication>
        <customer>TEST</customer>
        <!--Optional:-->
        <passCode>5ZPVP5OC</passCode>
        <!--Optional:-->
        <userId>david.testing@test.com</userId>
      </authentication>
      <!--Optional:-->
      <supplementInfo>
        <orderId>269958</orderId>
        <type>2</type>
        <!--Optional:-->
        <dueDate>2017-09-02T11:11:11</dueDate>
      </supplementInfo>
      <!--Optional:-->
      <order>
        <!--Optional:-->
        <pon>88869111</pon>
        <!--Optional:-->
        <orderType>PO</orderType>
        <!--Optional:-->
        <orderNumbers>
          <!--Zero or more repetitions:-->

```

```

<number>
  <!--Optional:-->
  <tn>7066084686</tn>
</number>
<number>
  <!--Optional:-->
  <tn>7066084689</tn>
</number>
</orderNumbers>
<!--Optional:-->
<orderDetails>
  <accountNumber>34567890</accountNumber>
  <atn>4365364354</atn>
  <authDate>2018-02-25</authDate>
  <authnm>4353465</authnm>
  <city>CHICAGO</city>
  <desiredDueDate>2018-03-02 04:30:00 AM</desiredDueDate>
  <timezone>CT</timezone>
  <endCustomerName>testing</endCustomerName>
  <mi>C</mi>
  <npdi>D</npdi>
  <nns>D</nns>
  <sanoHouseNumber>2</sanoHouseNumber>
  <sasnStrName>STAG CT</sasnStrName>
  <state>NY</state>
  <telephoneNumber>7184505555</telephoneNumber>
  <zipCode>10901</zipCode>
</orderDetails>
</order>
</pub:supplementOrder>
</soapenv:Body>
</soapenv:Envelope>

```

Element	Mandatory	Occurrence	Constraints	Description
---------	-----------	------------	-------------	-------------

supplement Info	Yes	1	Wrapper for Supplement data	
orderId	Yes	1	Integer	Should be valid* open PI Order
type	Yes	1	possible	1- cancel , 2- change due date , 3-others

			values 1,2,3	
dueDate	Condi tio nal	1	if type=2	yyyy-MM-ddTHH:mm:ss
if type=3 , it is required to provide full details of the order like pon , orderNumbers , orderDetails (refer to place order XML)				
pon	condi on al(if Type=3)	1	purchase order number	Shouldn't be different from actual
orderType	condi on al(if Type=3)	1	PI	Type of the order
orderNu mb ers	condi on al(if Type=3)	1	Wrapper on number	If a number missing in request will be considered as removed , and new number appear in request will be treated as added to order
orderDet ail s	condi on al(if Type=3)		Wrapper on details	all mandatory data should be provided , because it will replace with latest data

* order status should closed order or status not crossed FOC_RECIEVED ,....

. Response XML

if (type = 1 or type =2)

<return>Successfully supplemented the Order</return>

if (type = 3)

<return>PO-24894</return>

Element	Occurrence	Description
return	1	If order has been placed successfully returns a string with one Order No , if only one order is created ,else it will return all order numbers with comma separated in case of order has decomposed into multiple orders

3.4.2 Accept PortOut Order

This is to accept an order for Port Out as a part of PortOut End User Validation.

Request XML:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:acceptPortOut>
      <!--Optional:-->
      <authentication>
        <customer>*****</customer>
        <!--Optional:-->
        <passCode>*****</passCode>
        <!--Optional:-->
        <userId>*****@*****.com</userId>
      </authentication>
      <!--Optional:-->
      <orderId>260705</orderId>
    </pub:acceptPortOut>
  </soapenv:Body>
</soapenv:Envelope>
```

Response XML:

```
<S:Body>
  <ns2:rejectPortOutResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
</S:Body>
```

3.4.3 Reject PortOut Order

This is to reject a port out order as a part of PortOut End User Validation.

Request XML:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:rejectPortOut>
      <!--Optional:-->
```

```

<authentication>
  <customer>*****</customer>
    <!--Optional:-->
    <passCode>*****</passCode>
    <!--Optional:-->
    <userId>*****@*****.com</userId>
</authentication>
<!--Optional:-->
<orderId260705</orderId>
<!--Optional:-->
<rejectReasonCode>RR013</rejectReasonCode>
</pub:rejectPortOut>
</soapenv:Body>
</soapenv:Envelope>

```

Response XML:

```

<S:Body>
  <ns2:rejectPortOutResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
</S:Body>

```

Reject reason codes:

ID	REASON	CODE
1	Invalid auth name	RR001
2	Invalid address	RR002
3	Invalid customer/end user name	RR003
4	All data mismatch	RR004
5	PIN mismatch	RR005
6	Emergency TNs are not portable (in relation to temp situation)	RR006
7	Due date cannot exceed 30 days from current date	RR007
8	TN not portable	RR008
9	Locked TN	RR009
10	Unauthorized port	RR010

11	Missing PIN	RR011
12	Account not active	RR012
13	Auto Reject - Clarification Requested time exceeded	RR013

Error messages:

1. When some appropriate is already taken.

```
<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
  <faultcode>EPPO0002</faultcode>
  <faultstring>PO_ERROR_ACTION_NO_LONGER_AVAILABLE</faultstring>
</S:Fault>
```

2. When Invalid reject reason code is entered.

```
<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
  <faultcode>EPPO0002</faultcode>
  <faultstring>PO_ERROR_INVALID_REASON_PROVIDED</faultstring>
</S:Fault>
```

3.5 Change Order

NOTE : Get order status, upload attachments, download attachments and adding notes are generic implementation for all the order types

3.5.1 View Number Details / Features

This Operation will search all the features for the requested telephone numbers in the inventory from Peerless.

This function is used for all the order types(NN,PI,CO,DI,PO).

If the number is not assigned to an entity then it would result in an error.

Request XML

```
<pub:viewNumberDetails>
  <authentication>
```



```

    <customer>XXXXX</customer>
    <passCode>XXX</passCode>
    <userId>XXX@XXX.XXX</userId>
  </authentication>
  <telephoneNumber>?</telephoneNumber>
</pub:viewNumberDetails>

```

Element	Mandatory	Occurrence	Constraints	Description
telephone Number	Yes	1..*	Telephone Numbers should be in Assigned state and also belong to the same entity	describes the number/s for which all the features (e911, sms, CNAM Delivery, CNAM Storage..etc) are to be known.

Response XML

```

<ns2:viewNumberDetailsResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>
    <tn>?</tn>
    <routeLabel>?</routeLabel>
    <customName>?</customName>
    <cnamDelivery>?</cnamDelivery>
    <cnamStorage>?</cnamStorage>
    <cnamStorageName>test</cnamStorageName>
    <peerlessMsgProvisioning>?</peerlessMsgProvisioning>
    <sms>?</sms>
    <e911>?</e911>
    <address>
      <number>?</number>
      <name>?</name>
      <streetNumber>?</streetNumber>
      <direction>?</direction>
      <streetName>?</streetName>
      <city>?</city>
      <state>?</state>
      <zip>?</zip>
    </address>
  </return>
</ns2:viewNumberDetailsResponse>

```

Element	Occurrence	Description		

return	0..*	if search criteria found any results		
tn	0...*	specify the telephone number		

routelabel	0...*	telephone number		
cnamDelivery	0...*	true if CNAM Delivery feature is enabled else false		
cnamStorage	0...*	String value if CNAM Storage feature is to be enabled else false.		
cnamStorage Name	0...*	Caller ID Name - Required if cnamStorage is True		
peerlessMsgProvisioning	0...*	true if peerlessMsg feature is enabled else false		
sms	0...*	true if SMS feature is enabled else false		
e911	0...*	true if e911 feature is enabled else false		
address	0...*	returned if and only if e911 is enabled else not		
number	0...*	telephone Number		
name	0...*	return the name of the customer		
streetNumber	0...*	return categories controlled by Peerless for given entity		
direction	0...*	return direction like N,W,E,S,NE...		

streetName	0...*	return the name of the street like Chicago		
city	0...*	return the name of the city		
state	0...*	return the Initials for the state like IL for Illinois, IN for INDIANA		
zip	0...*	return the zip code		
suite	0...*	return the Apartment Number		

Failure Responses:-

- Response in case of validation failure, when telephone numbers provided don't belong to the entity making the request:-

```
<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
  <faultcode>S:Server</faultcode>
  <faultstring>One or more numbers do not belong to the entity</faultstring>
</S:Fault>
```

- Response in case of validation failure, when telephone numbers provided are not in Assigned state.

```
<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
  <faultcode>S:Server</faultcode>
  <faultstring>One or more numbers not in assigned state</faultstring>
</S:Fault>
```

3.5.2 Place Order

Request XML

```
<pub:placeOrder>
  <authentication>
    <customer>?</customer>
    <passCode>?</passCode>
    <userId>?</userId>
  </authentication>
  <order>
    <pon>?</pon>
```

```

<orderType>?</orderType>
<orderNumbers>
  <number>
    <tn>?</tn>
    <routelabel>?</routelabel>
    <cnamDelivery>?</cnamDelivery>
    <cnamStorage>?</cnamStorage>
    <cnamStorageName>?</cnamStorageName>
    <peerlessMsgProvisioning>?</peerlessMsgProvisioning>
    <sms>?</sms>
    <e911>?</e911>
    <address>
      <number>?</number>
      <name>?</name>
      <streetNumber>?</streetNumber>
      <direction>?</direction>
      <streetName>?</streetName>
      <city>?</city>
      <state>?</state>
      <zip>?</zip>
      <suite>?</suite>
    </address>
  </number>
</orderNumbers>
</order>
</pub:placeOrder>

```

Element	Mandatory	Occurrence	Constraints	Description
pon	No	1		Describes user's Purchase Order Number
orderType	Yes	1	To be set as one the following : (NN,CO,PI,PO,DI)	Describes the type of the order being placed. for port in PI
orderNumbers	Yes	1	Wrapper on number	Contains all the numbers and their details that are to be placed

Number	Yes	1..*	Wrapper on tn itself and also the features(routelabel, cnamDelivery, mou, cnamStorage..) to be associated with the number.	Contains the number and all the details associated to that number. If there are multiple occurrences of the tag then numbers this tag should be repeated and should
tn	Yes	1	To be used inside number tag.	Describes the Number for which the order is being placed
routelabel	Yes	1	To be used inside number tag.	Describes the Destination's route label to be assigned to the number.
cnamDelivery		1	Possible values: true/false or 0/1	True/1 if CNAM Delivery feature is to be enabled else false/0
cnamStorage		1	Possible values: true/false or 0/1. Also a string value	True/1 if CNAM Delivery feature is to be enabled else false/0 Both Boolean and String value for CNAM Storage are mandatory.
cnamStorage Name	No	1	See CNAM Storage on prior page	Caller ID Name - Required if cnamStorage is True
peerlessMsg Provisioning	No	1	Possible values:	True/1 if peerlessMsg feature is to be enabled else false/0

			true/false or 0/1	
--	--	--	-------------------	--

sms	No	1	Possible values: true/false or 0/1	True/1 if SMS feature is to be enabled else false/0. If set as always or
e911	No	1	Possible values: true/false or 0/1	True/1 if e911 feature is to be enabled else false/0. If e911 already enabled and address is set, by setting e911 to false/0 removes the e911 address completely and disables the feature.
address	Conditional*	1	Wrapper on (streetNumber , direction, city, state, number, name, pin, suite)	Describes the E911 address to be related to the number. *If e911 enabled is true then address in Mandatory
streetNumber		1	Min Digit Limit 1	These categories are controlled by Peerless for given entity *If e911 is enabled
direction	Yes	1	Min Char Limit 1 Max Char Limit 4	direction like N,W,E,S,NE... *If e911 is enabled
streetName	Yes	1	should be a valid street name	Describes the name of the street like Chicago *If e911 is enabled
city	Yes	1	should be a valid city name	Describes the name of the city *If e911 is enabled
state	Yes	1	Min, Max Char Limit 2	Initials for ths state. Describe state like IL for Illinois, IN for INDIANA *If e911 is enabled
name	Yes	1		Describes the name of the customer *If e911 is enabled

zip	Yes	1	should contain either 5 Digits or 9 Digits	Describes the zip code *If e911 is enabled
-----	-----	---	--	---

suite	No	1		Apartment Number
-------	----	---	--	------------------

Response XML

```
<ns2:placeOrderResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return?></return>
</ns2:placeOrderResponse>
```

Element	Occurrence	Description
return	1	If order has been placed successfully returns a string with one Order No.

3.6 Disconnect Order

In Disconnect order, if order is soft disconnect with or without features then available date will not be displayed. And if it is hard disconnect then available date will be shown.

Below is an example for Disconnect Order:

. Request XML

```
<pub:disconnectOrder>
  <authentication>
    <customer>DummyTestEntity</customer>
    <passCode>testUserPassword</passCode>
    <userId>user@peerlessnetwork.com</userId>
  </authentication>
  <disconnectOrderRequest>
    <pon>?</pon>
    <tns>
      <tn>XXXXXXXXXX</tn>
      <discoType>0</discoType>
```

```

    </tns>
  </disconnectOrderRequest>
</pub:disconnectOrder>

```

Element	Mandatory		Constraints	Description
---------	-----------	--	-------------	-------------

	Mandatory	Occurrence	Constraints	Description
pon	No	1	Integer	Describes user's Purchase Order Number
tns	yes	0..*		object containing 'tn' and 'discoType'
tn	yes	1	Integer	Telephone number
discoType	yes	1	Integer	0-SOFT_DISCONNECT 1-HARD_DISCONNECT 2-SOFT_DISCONNECT_KEEP_FEATURES

. Successful Response XML

```

<ns2:disconnectOrderResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>DI-123125025</return>
</ns2:disconnectOrderResponse>

```

Element	Occurrence	Description
return	1	response of an order with DI 'prefix'.

Failure Responses:-

- Response in case of validation failure, when user didn't provided tns (object containing tn and discoType):-


```

<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
  <faultcode>S:Server</faultcode>
  <faultstring>Error while validating request [tns]</faultstring>
</S:Fault>

```
- Response in case of missing tn


```

<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
  <faultcode>S:Server</faultcode>
  <faultstring>Error while validating request [[TN]]</faultstring>

```


</S:Fault>

- Response in case of missing discoType
<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
 <faultcode>S:Server</faultcode>
 <faultstring>Error While processing Disconnect Request due to [STATUS_INACTIVE
7632751307, INVALID_ENTITY_NUMBER 7632751307]</faultstring>
</S:Fault>
- Response in case of Inactive tn
<S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
 <faultcode>S:Server</faultcode>
 <faultstring>Error While processing Disconnect Request due to [STATUS_INACTIVE
XXXXXXXXXXXX, INVALID_ENTITY_NUMBER XXXXXXXXXXXX]</faultstring>
</S:Fault>

3.7 Generic Search

The generic search is applicable for all the orders, irrespective of their being NN, PO or PI.

3.7.1 getOrdersByPONSearch

This is used to get the orders based on the PON entered in the request.

Request:

```
<pub:getOrdersByPONSearch>  
  <!--Optional:-->  
  <authentication>  
    <!--Optional:-->  
    <customer>DummyTestEntity</customer>  
    <!--Optional:-->  
    <passCode>testUserPassword</passCode>  
    <!--Optional:-->  
    <userId>adonelson@peerlessnetwork.com</userId>  
  </authentication>  
  <!--Optional:-->  
  <pon>77777</pon>  
</pub:getOrdersByPONSearch>
```

Element	Man dat ory	Occurr en ce	Constraints	Description
pon	Yes	1	Integer	Should be valid PON

Response:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getOrdersByPONSearchResponse
      xmlns:ns2="http://publicapi.api.s2.peerless.com/">
      <return>
        <result>
          <ponOrders>
            <orderNumber>123124447</orderNumber>
            <orderType>PORT_IN</orderType>
            <pon>77777</pon>
            <status>CLOSED</status>
            <dateReceived>08/27/2015</dateReceived>
          </ponOrders>
        </result>
      </return>
    </ns2:getOrdersByPONSearchResponse>
  </S:Body>
</S:Envelope>
```

Element	Occurrence	Description
ponOrders	0..*	wrapper for related order information
orderNumber	1	Order number of a related to PON
pon	1	PON of related order
orderType	1	type of order - NN, PI, PO
carrier	1	carrier name of order
status	1	order status of order
dateReceived	1	date on which the order was created or modified.

NOTE: There can be multiple orders with respect to the same PON, all belonging to same entity. But if the same PON exists for different entities then only the orders belonging to the entity given in request would be displayed.

3.7.2 getStatusByNumberSearch

This is to get the status of the number given in the request. The number should belong to the entity in question.

Request:

```
<pub:getStatusByNumberSearch>
  <!--Optional:-->
  <authentication>
    <!--Optional:-->
    <customer>DummyTestEntity</customer>
    <!--Optional:-->
    <passCode>testUserPassword</passCode>
    <!--Optional:-->
    <userId>adonalson@peerlessnetwork.com</userId>
  </authentication>
  <!--Zero or more repetitions:-->
  <telephoneNumber>2013126398</telephoneNumber>
  <telephoneNumber>2013126399</telephoneNumber>
</pub:getStatusByNumberSearch>
```

Element	Mandatory	Occurrence	Constraints	Description
telephone number	Yes	1	Integer	Should be valid number

Response:

```
<ns2:getStatusByNumberSearchResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>
    <result>
      <entry>
        <key>2013126398</key>
        <value>PortedOut</value>
      </entry>
      <entry>
        <key>2013126399</key>
        <value>Assigned</value>
      </entry>
    </result>
  </return>
</ns2:getStatusByNumberSearchResponse>
```

```

    </result>
  </return>
</ns2:getStatusByNumberSearchResponse>
</S:Body>

```

Element	Occurrence	Description
entry	0..*	wrapper for number status information
key	1	telephone number in request
value	1	status of number

P.S. multiple numbers can be entered in request to know their status. In case the number is invalid then no result would be shown corresponding to that number.

3.7.3 searchOrderDetailsByOrderId

Giving the orderId and type we want to know the information about the order. The response would also include the notes. (Notes: refer to the status whenever any updation/modification was made for the order.)

Request:

```

<pub:searchOrderDetailsByOrderId>
  <!--Optional:-->
  <authentication>
    <!--Optional:-->
    <customer>DummyTestEntity</customer>
    <!--Optional:-->
    <passCode>testUserPassword</passCode>
    <!--Optional:-->
    <userId>adonelson@peerlessnetwork.com</userId>
  </authentication>
  <!--Optional:-->
  <orderId>22548</orderId>
  <!--Optional:-->
  <orderType>PI</orderType>
</pub:searchOrderDetailsByOrderId>

```

Element	Mandatory	Occurrence	Constraints	Description
orderId	Yes	1	Integer	Should be valid order id
orderType	Yes	1	String	Should be valid orderType - NN,PI,PO, DI, CO

NOTE: NN - New Number, PI- Port In, PO- Port Out, DI - Disconnect, CO- Change Order

Response:

```

<ns2:searchOrderDetailsByOrderIdResponse
xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>
    <orderSearch>
      <orderNumber>PI-22548</orderNumber>
      <pon>123b456</pon>
      <entity>Vonage(ESP)</entity>
      <numbers>
        <tn>9856321476</tn>
        <routeLabel>VONAGE_01</routeLabel>
        <customName>VONAGE_01</customName>
        <cnamDelivery>>false</cnamDelivery>
        <cnamStorage>>false</cnamStorage>
        <peerlessMsgProvisioning>>false</peerlessMsgProvisioning>
        <sms>>false</sms>
        <e911>>false</e911>
      </numbers>
      <numbers>
        <tn>9856321475</tn>
        <routeLabel>VONAGE_01</routeLabel>
        <customName>VONAGE_01</customName>
        <cnamDelivery>>false</cnamDelivery>
        <cnamStorage>>false</cnamStorage>
        <peerlessMsgProvisioning>>false</peerlessMsgProvisioning>
        <sms>>false</sms>
        <e911>>false</e911>
      </numbers>
      <numberOfTNs>2</numberOfTNs>
      <requestedDueDate>15-02-2019 07:50:00 AM</requestedDueDate>
      <FOCDate>01-02-2019 05:41:00 AM</FOCDate>
      <status>FOC_RECEIVED</status>
      <notes>

```

```

    <when>14-02-2019 08:38:27 AM</when>
    <notes>?</notes>
    <type>status_change</type>
    <action>CREATE</action>
    <userName>System</userName>
  </notes>
  <notes>
    <when>14-02-2019 08:38:28 AM</when>
    <type>status_change</type>
    <action>DECOMPOSE</action>
    <userName>David Vento</userName>
  </notes>
  <notes>
    <when>14-02-2019 08:38:28 AM</when>
    <type>status_change</type>
    <action>CONFIRM</action>
    <userName>David Vento</userName>
  </notes>
  <notes>
    <when>14-02-2019 08:42:33 AM</when>
    <notes>Due date was changed to Wed Aug 30 11:11:11 UTC 2017</notes>
    <type>change_due_date</type>
    <action>CHANGE_DUE_DATE</action>
    <userName>David Vento</userName>
  </notes>
  <notes>
    <when>14-02-2019 08:44:15 AM</when>
    <type>status_change</type>
    <action>SUPPLEMENT</action>
    <userName>David Vento</userName>
  </notes>
  <notes>
    <when>14-02-2019 08:44:15 AM</when>
    <notes>9856321476 are added.</notes>
    <type>status_change</type>
    <action>SUPPLEMENT</action>
    <userName>David Vento</userName>
  </notes>
</orderSearch>
</return>

```

Element	Occurrence	Description
---------	------------	-------------

orderSearch	0..1	wrapper for order details information
orderNumber	1	telephone number in request
pon	1	pon integer value
entity	1	entity of the order
numberOfTNS	1	integer value
status	1	String - status of the number
attachment	0..*	attachment name with order
notes	1..*	notes can be 1 to many
action	1	activity done e.g. : create, update etc.
note	1	description of what happened with the order
type	1	type of update

username	1	user who did action with the order
when	1	date when activity took place

3.7.4 searchFullOrderDetailsByOrderId

Giving the orderId and type we want to know the information about the order. The response would also include the notes. (Notes: refer to the status whenever any updation/modification was made for the order.) The difference between this API and searchOrderDetailsByOrderId is that this one provides extra information about the order details(CustomerAttributes)

Request:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:searchFullOrderDetailsByOrderId>
      <!--Optional:-->
      <authentication>
        <!--Optional:-->
        <customer>Test</customer>
        <!--Optional:-->
        <passCode>Test1</passCode>
        <!--Optional:-->
        <userId>Test2</userId>
      </authentication>
      <orderId>26260</orderId>
      <!--Optional:-->
      <orderType>PI</orderType>
    </pub:searchFullOrderDetailsByOrderId>
  </soapenv:Body>
</soapenv:Envelope>

```

Element	Mandatory	Occurrence	Constraints	Description
orderId	Yes	1	Integer	Should be valid order id
orderType	Yes	1	String	Should be valid orderType - NN,PI,PO, DI, CO

NOTE: NN - New Number, PI- Port In, PO- Port Out, DI - Disconnect, CO- Change Order

Response:

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:searchFullOrderDetailsByOrderIdResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
      <return>
        <orderSearch>
          <orderNumber>PI-26260</orderNumber>
        </orderSearch>
      </return>
    </ns2:searchFullOrderDetailsByOrderIdResponse>
  </S:Body>
</S:Envelope>

```


<pon>54hdj</pon>
<entity>General Dial(ESP)</entity>
<numbers>
 <tn>6032647604</tn>
 <routeLabel>prov_test1</routeLabel>
 <customName>test1</customName>
 <cnamDelivery>true</cnamDelivery>
 <cnamStorage>true</cnamStorage>
 <cnamStorageName>23gdh</cnamStorageName>
 <peerlessMsgProvisioning>false</peerlessMsgProvisioning>
 <sms>true</sms>
 <e911>false</e911>
</numbers>
<numberOfTNs>1</numberOfTNs>
<requestedDueDate>23-03-2022 09:00:00 AM</requestedDueDate>
<status>PENDING_CSR</status>
<notes>
 <when>15-03-2022 03:29:20 AM</when>
 <type>status_change</type>
 <action>CREATE</action>
 <userName>System</userName>
</notes>
<notes>
 <when>15-03-2022 03:29:37 AM</when>
 <type>status_change</type>
 <action>DECOMPOSE</action>
 <userName>Peerless Animate</userName>
</notes>
<notes>
 <when>15-03-2022 03:29:46 AM</when>
 <type>status_change</type>
 <action>CONFIRM</action>
 <userName>Peerless Animate</userName>
</notes>
<orderDetails>
 <accountNumber>457645736575</accountNumber>
 <act>V</act>
 <atn>957-806-8065</atn>
 <authDate>2022-03-02</authDate>
 <authnm>768978987600</authnm>
 <bldg>45</bldg>
 <carrierName>T MOBILE USA, INC.</carrierName>
 <chc>No</chc>

```
<city>fgsh</city>
<confirmed>>true</confirmed>
<csrRequested>>false</csrRequested>
<desiredDueDate>2022-03-23</desiredDueDate>
<dueDate>2022-03-23</dueDate>
<earliestPossible>>false</earliestPossible>
<email>hde@did.com</email>
<endCustomerName>hgjf</endCustomerName>
<endUserVerification>>false</endUserVerification>
<faxNumber>477-375-8477</faxNumber>
<floor>54</floor>
<focDateSync>>false</focDateSync>
<init>ydjgj</init>
<mi>C</mi>
<mouThresholdExceeded>>false</mouThresholdExceeded>
<npacActivated>>false</npacActivated>
<npdi>D</npdi>
<numberOfTns>1</numberOfTns>
<room>65</room>
<sadloAdditionalInfo>6ghk</sadloAdditionalInfo>
<sanoHouseNumber>ghjfg</sanoHouseNumber>
<saprHousePrefix>54</saprHousePrefix>
<sasdStrDir>76</sasdStrDir>
<sasfHouseNumberSuffix>jkl</sasfHouseNumberSuffix>
<sasnStrName>hdj</sasnStrName>
<sassStrSuffix>kj'</sassStrSuffix>
<sath>kh</sath>
<state>CA</state>
<subscriptionBuilt>>false</subscriptionBuilt>
<supplement>>false</supplement>
<telephoneNumber>347-537-5845</telephoneNumber>
<version>0</version>
<wirelessPin>4537356</wirelessPin>
<zipCode>64577</zipCode>
</orderDetails>
</orderSearch>
</return>
</ns2:searchFullOrderDetailsByOrderIdResponse>
</S:Body>
</S:Envelope>
```

3.7.5 ActivateSOA (Contractual Feature)

The numbers for the given orderId(s) would be npac activated. Only the numbers which are peerless and offnet numbers would have npac activation skipped.

Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:activateSOA>
      <!--Optional:-->
      <authentication>
        <!--Optional:-->
        <customer>test</customer>
        <!--Optional:-->
        <passCode>testUserPassword</passCode>
        <!--Optional:-->
        <userId>adonelson@peerlessnetwork.com</userId>
      </authentication>
      <!--Zero or more repetitions:-->
      <orderId>123125236</orderId>
    </pub:activateSOA>
  </soapenv:Body>
</soapenv:Envelope>
```

Element	Man dat ory	Occurr en ce	Constraints	Description
Order Id	yes	1..*		Order Id(s) whose numbers have to be soa activated

Response:

```
<ns2:activateSOAResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return>false</return>
</ns2:activateSOAResponse>
```

false : in case SOA(NPAC) activation for the numbers failed.

true : in case SOA(NPAC) activation for the numbers was successful.

3.8 Reprocess OR Failure Acknowledge Request

This request will give the ability to an API user to reprocess or failure Acknowledge the

New Number and Port In orders. This request contains the Order ID upon which the required action (Reprocess or Failure acknowledge) needs to be taken. The response action will return us the message for the performed action.

Request XML:

```
<pub:reprocessOrFailureAcknowledge>
  <!--Optional:-->
  <authentication>
    <customer>XXXXXX</customer>
    <passCode>XXXXXX</passCode>
    <userId>XXXXXX</userId>
  </authentication>
  <!--Optional:-->
  <!--Optional:-->
  <orderId>XXXX</orderId>
  <!--Optional:-->
  <action>ACKNOWLEDGE_FAILURE</action>
</pub:reprocessOrFailureAcknowledge>
```

Element	Mandatory	Occurrence	Constraints	Description
OrderID	Yes	1	mandatory	Order ID of the order type placed
Action	Yes	1	mandatory	Select which action type you want to perform. Choose from 'ACKNOWLEDGE_FAILURE' or 'REPROCESS'

Response XML:

```
<S:Body>
  <ns2:reprocessOrFailureAcknowledgeResponse
xmlns:ns2="http://publicapi.api.s2.peerless.com/">
    <return>Your order has accepted for failure acknowledge</return>
  </ns2:reprocessOrFailureAcknowledgeResponse>
</S:Body>
```

Request/Response XML:

Error messages when wrong input is entered in xml tags:

2. When incorrect values are entered in Action XML tags apart from 'ACKNOWLEDGE_FAILURE' or 'REPROCESS'.

Example:

```
<action>PARTIAL FAILURE</action>
```

Response XML:

```
<S:Body>
  <ns2:reprocessOrFailureAcknowledgeResponse
xmlns:ns2="http://publicapi.api.s2.peerless.com/">
  <return/>
  </ns2:reprocessOrFailureAcknowledgeResponse>
</S:Body>
```

3. When incorrect values are entered in OrderID XML tag apart from the numeric Order ID.

Request XML:

```
<orderId>NN-XXXXX</orderId>
```

Response XML:

```
<S:Body>
  <S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
    <faultcode>S:Server</faultcode>
    <faultstring>For input string: "NN-XXXXX"</faultstring>
  </S:Fault>
</S:Body>
```

3. TOLL FREE API ORDERS**3.1 Response Codes**

Error Codes will occur when an invalid request is placed in the API.

Error Code	String Code	Possible reasons
EP0001	INVALID_ORDER_TYPE	Invalid Order type given in request
EP0002	ERROR_WHILE_VALIDATING_REQUEST	Error while validating request
EP0005	ERROR_WHILE_VALIDATING_REQUESTED_DESTINATION	Validation failed for Requested Destination.(Incorrect or not provisioned)

EP0008	ERROR_WHILE_VALIDATING_REQUESTED_AOS	Error while validating AOS
EP0009	ERROR_WHILE_VALIDATING_REQUESTED_RESPORGID	Error while validating RepOrgId (entered incorrectly or Resp Org'd changed during order process)
EES0002		LE_VALIDATING_ Validation of either of the Entity res :

	REQUEST_FEATURES_WITH_ENTITYSETTINGS	e911, sms, cnam storage, cnam delivery, failed.
EPC004	Please enter valid Telephone Number/s	Error while validating Telephone number (Is this the TFN or in reference to DID's for 0110)
EPDI0002	ERROR_WHILE_VALIDATING_DI_REQUEST	Validation failed for the DI request
EP0010	USER_IS_NOT_ALLOWED_TO_PLACE_ORDER	Error while validating that user is allowed to place that type of order.
PRECONDITION_FAILED	The Following Tns are not in Unassigned Status:- [8008880000]	When it says TN is this for 0110? If not we should be clear and use TFN, as to not confuse the two
PRECONDITION_FAILED	TNs has Pending Request[8004852367]	So, is this error saying that the TN (DID) is pending on an order for this TFN, or is there another order type pending for the TFN?
PRECONDITION_FAILED	The Following Tns are not in Reserved Status:- [8004968372]	
PRECONDITION_FAILED	The following Tns are not known to Animate:- [8004968368]	The TFN would need to be added
PRECONDITION_FAILED	NUMBER_NOT_EXISTS: 888-795-1459	Error while validating that TFN exists in database or not.

Example for getting error codes:

Request XML:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:placeTFOrder>
      <authentication>
        <customer>XXXXXX</customer>
        <passCode>XXXXX</passCode>
        <userId>XXXX@XXXX.com</userId>
      </authentication>
      <TFNOrder>
        <orderType>RL</orderType>
        <activateReservation>0</activateReservation>
        <tollFreeOrderNumbers>
          <tollFreeOrderNumbers>
            <tn>855*****</tn>
            <quantity>2</quantity>
          </tollFreeOrderNumbers>
        </tollFreeOrderNumbers>
      </TFNOrder>
    </pub:placeTFOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

Response XML:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
      <faultcode>EP0001</faultcode>
      <faultstring>INVALID_ORDER_TYPE</faultstring>
    </S:Fault>
  </S:Body>
</S:Envelope>
```

3.2 Place TF Order

In this operation, user would be able to place 4 types of Orders:

1. Reservation
2. Reservation with Activation
3. Activation

- 4. Resp Org Gain
- 5. TollFree Change Order

1. Reservation:

NPA-NXX-Extension: The first three fields should be alphanumeric with the ability to use wildcards and the Quantity field should be a numeric value.

Request XML:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:placeTFOrder>
      <authentication>
        <customer>XXXXXX</customer>
        <passCode>XXXXXX</passCode>
        <userId>XXXX@XXXX.com</userId>
      </authentication>
      <TFNOrder>
        <orderType>RT</orderType>
        <activateReservation>0</activateReservation>
        <tollFreeOrderNumbers>
          <tollFreeOrderNumbers>
            <tn>888*****9</tn>
            <quantity>2</quantity>
          </tollFreeOrderNumbers>
        </tollFreeOrderNumbers>
      </TFNOrder>
    </pub:placeTFOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

Element	Mandatory		Constraints	Description
pon	No	0..1	Alphanumeric string (no space)	Describes user's Purchase Order Number
orderType	Yes	1	To be set as one the following : RG,RT,TF,	Describe the number type for which the order being placed

			CT	
requeste dD ueDate	No	0..1	Date	25/30/2019(mm-dd-yyyy)
activateR es ervation	Yes	1	Possible values: true/false or 0/1	Describes whether it's Reservation with Activation order(true or 1) or Reservation without activation order(false or 0)
endUser Na me	No	0..1		End User Name
respOrgId	No	0..1		RespOrgId
defaultAos	No	0..1	Possible values: US,XA,XB ,X C	Default AOS
defaultD est ination	No	0..1	To be used inside tfnOrders tag.	Describes the Destination's route label to be assigned to the number.
defaultP ay PhoneBl oc king	No	0..1	Possible values: true/false or 0/1	True/1 if Pay Phone Blocking feature is to be enabled else false/0

tn	Yes	1	NPA-NXX -E xtension	The first three fields should be alphanumeric with the ability to use wildcards and the Quantity field should be a numeric value.
quantity	Yes	1	Valid Integer Number	Total count of result will depends upon quantity
aos	No	0..1	Possible values: US,XA,XB ,X C	Aos for individual TFN.

destination		0..1	To be used inside tfnOrders tag	Describes the Destination's route label to be assigned to the number.
cnamDelivery	No	0..1	Possible values: true/false or 0/1	True/1 if CNAM Delivery feature is to be enabled else false/0
payPhoneBlocking	No	0..1	Possible values: true/false or 0/1	True/1 if Pay Phone Blocking feature is to be enabled else false/0

Response XML:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:placeTFOrderResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
      <return>RT-10377</return>
    </ns2:placeTFOrderResponse>
  </S:Body>
</S:Envelope>
```

2. Reservation with Activation:

Request XML:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:placeTFOrder>
      <authentication>
        <customer>XXXXXX</customer>
        <passCode>XXXXX</passCode>
        <userId>XXXX@XXXX.com</userId>
      </authentication>
      <TFNOrder>
        <orderType>RT</orderType>
        <activateReservation>true</activateReservation>
        <respOrgId>PNN01</respOrgId>
        <defaultAos>XA</defaultAos>
      </TFNOrder>
    </pub:placeTFOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

```

<defaultDestination>PROV_TEST</defaultDestination>
<defaultPayPhoneBlocking>>false</defaultPayPhoneBlocking>
<tollFreeOrderNumbers>
  <tollFreeOrderNumbers>
    <tn>855*****</tn>
    <quantity>1</quantity>
    <aos>XA</aos>
    <destination>PROV_TEST</destination>
    <cnamDelivery>>false</cnamDelivery>
    <payPhoneBlocking>>false</payPhoneBlocking>
  </tollFreeOrderNumbers>
</tollFreeOrderNumbers>
  <tollFreeOrderNumbers>
    <tn>855*****</tn>
    <quantity>1</quantity>
    <aos>XA</aos>
    <destination>PROV_TEST</destination>
    <cnamDelivery>>false</cnamDelivery>
    <payPhoneBlocking>>false</payPhoneBlocking>
  </tollFreeOrderNumbers>
</tollFreeOrderNumbers>
</TFNOrder>
</pub:placeTFOrder>
</soapenv:Body>
</soapenv:Envelope>

```

Element	Mandatory	Occurrence	Constraints	Description
pon	No	0..1	Alphanumeric string (no space)	Describes user's Purchase Order Number
orderType		1	To be set as one the following : RG,RT,TF,CT	Describe the number type for which the order being placed
requestedDueDate	No	0..1	Date	25/30/2019(mm-dd-yyyy)
activateR	Yes	1	Possible	Describes whether it's Reservation with

eservation			values: true/false or 0/1	Activation order(true or 1) or Reservation without activation order(false or 0)
endUserName	No	0..1		End User Name
respOrgId		1		RespOrgId
defaultAoS	Yes	1	Possible values: US,XA,XB,X C	Default AOS
defaultDestination	Yes	1	To be used inside tfnOrders tag.	Describes the Destination's route label to be assigned to the number.
defaultPayPhoneBlocking	Yes	1	Possible values: true/false or 0/1	True/1 if Pay Phone Blocking feature is to be enabled else false/0
tn	Yes	1	NPA-NXX- Extension	The first three fields should be alphanumeric with the ability to use wildcards and the Quantity field should be a numeric value.
quantity	Yes	1	Valid Integer Number	Total count of result will depends upon quantity
aos	No	0..1	Possible values: US,XA,XB,X C	Origination of calls. Where the calls are coming into the TFN from
destination	No	0..1	To be used inside tfnOrders tag	Describes the Destination's route label to be assigned to the number.
cnamDelivery	No	0..1	Possible values: true/false or 0/1	True/1 if CNAM Delivery feature is to be enabled else false/0

payPhone Blocking	No	0..1	Possible values: true/false or 0/1	True/1 if Pay Phone Blocking feature is to be enabled else false/0
-------------------	----	------	------------------------------------	--

Response:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:placeTFOrderResponse xmlns:ns2="http://publicapi.api.s2.peerless.com/">
      <return>RT-10393</return>
    </ns2:placeTFOrderResponse>
  </S:Body>
</S:Envelope>
```

3. Activation:

To place Activation order TFN should be in Reserved status and should belong to the selected entity. There should be no pending orders on that TFN.

Request XML:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="http://publicapi.api.s2.peerless.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:placeTFOrder>
      <authentication>
        <customer>XXXXXX</customer>
        <passCode>XXXXXX</passCode>
        <userId>XXXX@XXXX.com</userId>
      </authentication>
      <TFNOrder>
        <orderType>TF</orderType>
        <respOrgId>PNN01</respOrgId>
        <defaultAos>XA</defaultAos>
        <defaultDestination>PROV_TEST</defaultDestination>
        <defaultPayPhoneBlocking>1</defaultPayPhoneBlocking>
        <tollFreeOrderNumbers>
          <tollFreeOrderNumbers>
            <tn>8885641879</tn>
          </tollFreeOrderNumbers>
          <aos>XA</aos>
          <destination>PROV_TEST</destination>
          <cnamDelivery>>false</cnamDelivery>
        </tollFreeOrderNumbers>
      </TFNOrder>
    </pub:placeTFOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<payPhoneBlocking>false</payPhoneBlocking>
</tollFreeOrderNumbers>
<tollFreeOrderNumbers>
  <tn>8885641889</tn>
  <aos>XA</aos>
  <destination>PROV_TEST</destination>
  <cnamDelivery>true</cnamDelivery>
  <payPhoneBlocking>true</payPhoneBlocking>
</tollFreeOrderNumbers>
</tollFreeOrderNumbers>
</TFNOrder>
</pub:placeTFOrder>
</soapenv:Body>
</soapenv:Envelope>
```