Bandwidth Dashboard
API User’s Guide
1 Document History

<table>
<thead>
<tr>
<th>Version Number</th>
<th>Date Created</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3</td>
<td>January 10, 2013</td>
<td>First Version</td>
</tr>
<tr>
<td>1.3.1</td>
<td>February 8, 2013</td>
<td>Addition of Orders, SIP Peer Management Functions and Reporting</td>
</tr>
</tbody>
</table>
2 Overview

The Bandwidth Dashboard's API provides a set of programmable interfaces for customers to easily configure their services, search for phone numbers, order phone numbers, and provision phone numbers on Bandwidth's network. The API is designed to provide customer's applications with fast and simple access to the services provided by Bandwidth, and is designed to provide a fast response times at high volumes in order to support our customer's needs.

3 Getting Started

- Contact the Bandwidth Customer Experience Team at support@bandwidth.com to request login credentials to our test environment.
- To verify your login credentials, point a web browser to the URL of a REST WADL of a service for which you've been enabled, and provide your credentials when queried by the web browser. If you are unable to access the WADL, please contact the customer experience team. Reference URL in Section 6.
- Test your application against the new API.
- Contact the customer experience team for access to the production environment.

3.1 API Methods – REST

Bandwidth API’s support REST web service technologies.

The Bandwidth API’s are designed to provide customers with a simple way of interfacing with the number intelligence platform following standard industry practices. Wikipedia (reference http://en.wikipedia.org/wiki/Representational_state_transfer) defines REST as:

A RESTful web service (also called a RESTful web API) is a simple web service implemented using HTTP and the principles of REST. It is a collection of resources, with four defined aspects:
- A base URI for the web service, such as http://example.com/resources/
- An Internet media type of the data supported by the web service. This is often JSON, XML or YAML but can be any other valid Internet media type.
- A set of operations supported by the web service using HTTP methods (e.g., GET, PUT, POST, or DELETE).
- The API must be hypertext driven.
4 Security

The Bandwidth API methods are accessed through HTTPS to protect sensitive customer data against eavesdropping and man-in-the-middle attacks. Basic HTTP authentication is used with encryption via TLS. Basic HTTP authentication is supported by all browsers commonly in use, and the HTTP clients of most programming languages, and is straightforward to implement.

For examples on client authentication, please review information at: http://hc.apache.org/httpcomponents-client-ga/examples.html

Contact the Bandwidth Customer Experience Team for new credentials, password resets or access to additional purchased features. Available API’s and features are listed below.

- Search available number inventory
  - REST HTTP GET
- Ordering numbers
  - REST HTTP
- SIP Peer Management
  - REST HTTP
- Reporting
  - REST HTTP GET
5 High Level Diagram

Figure 1: High Level Diagram
6 BASE URL

All resources are located at:

- Base URL for Interop – https://api.test.inetwork.com/v1.0
- Base URL for Production – https://api.inetwork.com/v1.0

7 WADL Schema Definitions

The WADL’s for accessing the API’s through REST are defined below.

Note: For each of the locations noted, prefix the URLs defined in Section 6.

7.1 WADL

<table>
<thead>
<tr>
<th>API</th>
<th>WADL Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEARCH</td>
<td>/inventory_search?_wadl</td>
</tr>
<tr>
<td>ORDER</td>
<td>/order?_wadl</td>
</tr>
<tr>
<td>SIP PEER MANAGEMENT</td>
<td>/sippeers?_wadl</td>
</tr>
<tr>
<td>SITES</td>
<td>/sites?_wadl</td>
</tr>
</tbody>
</table>
8 Provisioning Model

Authentication → Site Exists?

Yes → Create a Site is a one-time action. SIP Peers are assigned to Site. Example, POST /accounts/<accountid>/sites

No → CREATE SITE

Peer Exists?

Yes → Creating a SIP Peer is a one-time action. You can create multiple SIP Peers and map different TNs with those peers. You cannot have the same TN in multiple Peers

No → CREATE SIP PEER

SIP GW Name, Site ID, Default Designation, IP address, failover options, bidirectional trunks etc

SEARCH TNS

ORDER TNS

Sample POST /accounts/<acctid>/sites/<siteid>/sippeers

Site 1 Peer → Site N Peer

Searching provides details on the TNs for ordering. This is an optional step. You can place an order for TNs without searching. When creating each new SIP Peer, you will have the option to make it the default SIP Peer. TN’s will automatically be assigned to that Peer unless a new Peer is created and designated as the default.

Call Forwarding is provisioned on a per TN basis

Example, POST /accounts/<acctid>/sites/<siteid>/sippeers
9 Sites
A site is defined as the location for customer to send and receive voice or data traffic. Most customers may only need a single Site and SIP Peer. TN’s are associated with a single SIP Peer within a Site. A single Site can contain more than one SIP Peer. An account can have multiple Sites. Reference the Provisioning Model in Section 8.

The input parameters for creating and updating sites are:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountID</td>
<td>The numerical account ID assigned to your account</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the site. Max length restricted to 10 characters.</td>
</tr>
<tr>
<td>Description</td>
<td>Customer provided description of the site</td>
</tr>
<tr>
<td>Address</td>
<td>Service Address for the site</td>
</tr>
<tr>
<td>CustomerProvidedID</td>
<td>Customer can provide an optional id (max 10 digits). Note that the customer can use the same id across multiple orders</td>
</tr>
<tr>
<td>CustomerName</td>
<td>Customer can provide an optional name</td>
</tr>
</tbody>
</table>

9.1 HTTP POST Request Format
Creating a site is done by:
/accounts/<account-id>/sites

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Site>
  <Name>Raleigh</Name>
  <Description>SIP gateway</Description>
  <CustomerName>BW</CustomerName>
  <Address>
    <HouseNumber>900</HouseNumber>
    <StreetName>Main Campus Drive</StreetName>
    <City>Raleigh</City>
    <StateCode>NC</StateCode>
    <ZipCode>27606</ZipCode>
    <AddressType>Service</AddressType>
  </Address>
</Site>
```
9.2  Site Creation Response Format
A 201 Location header message is returned for creating a new site. The 201 location header messages contain the system generated site id.

9.3  HTTP PUT Request Format
To update the contents of a site, use:
/accounts/<account-id>/sites/<site-id>
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Site>
  <Name>Raleigh</Name>
  <Description>SIP gateway</Description>
  <CustomerName>BW</CustomerName>
  <CustomerProvidedId>1234567890</CustomerProvidedId>
  <CustomerName>ABC Corp</CustomerName>
  <Address>
    <HouseNumber>900</HouseNumber>
    <StreetName>Main Campus Drive</StreetName>
    <City>Raleigh</City>
    <StateCode>NC</StateCode>
    <ZipCode>27606</ZipCode>
    <AddressType>Service</AddressType>
  </Address>
</Site>

9.4  Site Update Response Format
A 200 OK message is returned for updating a new site.

9.5  Site Creation/Update Errors
A sample error message response is shown below. Standard HTTP codes are used to indicate the type of error encountered.

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<SiteResponse>
  <ResponseStatus>
    <ErrorCode>12544</ErrorCode>
    <Description>Customer provided id '12345678904' is not valid</Description>
  </ResponseStatus>
</SiteResponse>

9.6  Deleting a Site
You cannot delete a site. This operation results in a 405 Method Not Allowed error message.
10 SIP Peer Management

SIP Peer Management enables customers to configure and manage IP addresses and other attributes for their network connections to Bandwidth.

10.1 Create a SIP Peer

A SIP peer is a gateway that sends or receives voice and data traffic to/from Bandwidth’s inetwork. Customer must configure a default SIP peer on the Site within an Account. Before you can create a SIP Peer, a Site (location) must be created. You can have multiple SIP Peers on a Site. Only one default SIP Peer is allowed per Site. Reference Section 8.

10.1.1 SIP Peer Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountID</td>
<td>The numerical Account ID assigned to your Account</td>
</tr>
<tr>
<td>SiteID</td>
<td>The Site or location id for the SIP Peer</td>
</tr>
<tr>
<td>PeerName</td>
<td>Mandatory name for the SIP Peer (Max 10 chars)</td>
</tr>
<tr>
<td>Description</td>
<td>Optional description for the SIP Peer</td>
</tr>
<tr>
<td>IsDefaultPeer</td>
<td>Value is True or False. Each site can have only 1 default SIP Peer. You can configure multiple SIP Peers on a Site</td>
</tr>
<tr>
<td>VoiceHostGroups/VoiceHostGroup</td>
<td>Used for round robin configuration. Maximum of 5 groups. Each group can have a maximum of 10 hosts.</td>
</tr>
<tr>
<td>VoiceHosts</td>
<td>Used for active/standby configuration. Maximum of 10 hosts</td>
</tr>
<tr>
<td>SMSHosts</td>
<td>Used for SMS traffic only</td>
</tr>
<tr>
<td>FinalDestinationURI</td>
<td>Last attempt for routing of calls</td>
</tr>
</tbody>
</table>

10.1.2 HTTP POST Request Format (ROUND ROBIN)

POST /accounts/<account-id>/sites/<site-id>/sippeers

This section describes the request format for a round-robin host configuration on the SIP Peer. In round robin configuration, the network allows a maximum of 5 destination
host groups. Each host group can accommodate a maximum of 10 hostnames (or IP addresses). A group is selected in random order and every host in the group is attempted in random order.

For example, you have 4 IP addresses or hosts. There are two possible options (depending on specific customer configuration).

1. 4 groups. Each group has 1 IP address
2. 1 group with 4 IP addresses.

10.1.2.1 Option 1

If option 1 is the preferred customer choice for configuration, the network selects 1 of the 4 groups in random order. Calls are attempted on the IP address within that selected group. For option 1, the format of the request XML is:

```xml
<SipPeer>
  <PeerName>Raleigh</PeerName>
  <Description>Raleigh SIP Gateway</Description>
  <IsDefaultPeer>true</IsDefaultPeer>
  <VoiceHostGroups>
    <VoiceHostGroup>
      <Host>1.2.3.1</Host>
    </VoiceHostGroup>
    <VoiceHostGroup>
      <Host>1.2.3.2</Host>
    </VoiceHostGroup>
    <VoiceHostGroup>
      <Host>1.2.3.3</Host>
    </VoiceHostGroup>
    <VoiceHostGroup>
      <Host>1.2.3.4</Host>
    </VoiceHostGroup>
  </VoiceHostGroups>
</SipPeer>
```

Return status code for successful submission is 200 OK.

10.1.2.2 Option 2

If option 2 is the preferred customer choice for configuration, the network attempts calls to one of the 4 hosts in random order. For option 2, the format of the request XML is:

```xml
<SipPeer>
  <PeerName>Raleigh</PeerName>
</SipPeer>
```
<Description>Raleigh SIP Gateway</Description>
<IsDefaultPeer>true</IsDefaultPeer>
<VoiceHostGroups>
  <VoiceHostGroup>
    <Host>1.2.3.1</Host>
    <Host>1.2.3.2</Host>
    <Host>1.2.3.3</Host>
    <Host>1.2.3.4</Host>
  </VoiceHostGroup>
</VoiceHostGroups>

Return status code for successful submission is 200 OK.

### 10.1.3 HTTP POST Request Format (Active/Standby)

POST /accounts/<account-id>/sites/<site-id>/sippeers

This section describes the active/standby host configuration for a SIP Peer. In active/standby configuration, the network allows a maximum of 10 destination hosts/IP Addresses.

For example, you have 10 IP addresses or hosts. These can be configured such that all calls go to the first IP address in the list. If that host or IP cannot be reached for some reason, calls are routed to the second host/IP. Network continues to go down the host/IP list until successful call completion.

For active/standby configuration, the request format of the XML is:

```
<SipPeer>
  <PeerName>Raleigh</PeerName>
  <Description>Raleigh SIP Gateway</Description>
  <IsDefaultPeer>true</IsDefaultPeer>
  <VoiceHosts>
    <Host>2.2.3.1</Host>
    <Host>2.2.3.2</Host>
    <Host>2.2.3.3</Host>
    <Host>2.2.3.4</Host>
  </VoiceHosts>
</SipPeer>
```

Note: Only 4 IP addresses are used in the above XML.

### 10.1.4 HTTP PUT Request Format (Active/Standby)

PUT /accounts/<account-id>/sites/<site-id>/sippeers/<sip-peer-id>

The XML for Round Robin Configuration is the same as the one in Section 10.1.2.

The XML for Active/Standby configuration is the same as the one in Section 10.1.3.
10.1.5 Removing a SIP Peer
Deleting a SIP peer is currently not allowed.

10.1.6 SMS Traffic
To create a network configuration for SMS traffic only, the request format for POST/PUT is:

```xml
<SipPeer>
    <PeerName>Raleigh</PeerName>
    <Description>Raleigh SIP Gateway</Description>
    <IsDefaultPeer>true</IsDefaultPeer>
    <SmsHosts>
        <Host>2.2.3.1</Host>
        <Host>2.2.3.2</Host>
        <Host>2.2.3.3</Host>
        <Host>2.2.3.4</Host>
    </SmsHosts>
</SipPeer>
```

10.1.7 Voice and SMS Traffic
To include both voice and SMS configuration in the same XML, the request format is:

```xml
<SipPeer>
    <PeerName>Raleigh</PeerName>
    <Description>Raleigh SIP Gateway</Description>
    <IsDefaultPeer>true</IsDefaultPeer>
    <VoiceHosts>
        <Host>2.2.3.1</Host>
        <Host>2.2.3.2</Host>
        <Host>2.2.3.3</Host>
        <Host>2.2.3.4</Host>
    </VoiceHosts>
    <SmsHosts>
        <Host>2.1.1.1</Host>
        <Host>2.1.1.2</Host>
        <Host>2.1.1.4</Host>
        <Host>2.1.1.3</Host>
    </SmsHosts>
</SipPeer>
```
10.1.8 Final Destination URI

The network configuration of a SIP Peer includes an optional attribute called finaldestinationuri. This is used when network connectivity to all previously provided hosts/IPs fails. Request format for the configuration of the SIP Peer, using this attribute, is:

```xml
<SipPeer>
  <PeerName>Raleigh</PeerName>
  <Description>Raleigh SIP Gateway</Description>
  <IsDefaultPeer>true</IsDefaultPeer>
  <VoiceHosts>
    <Host>2.2.3.1</Host>
    <Host>2.2.3.2</Host>
    <Host>2.2.3.3</Host>
    <Host>2.2.3.4</Host>
  </VoiceHosts>
  <SmsHosts>
    <Host>2.1.1.1</Host>
    <Host>2.1.1.2</Host>
    <Host>2.1.1.3</Host>
    <Host>2.1.1.4</Host>
  </SmsHosts>
  <FinalDestinationUri>sip:+12345678901@1.2.3.4:5060</FinalDestinationUri>
</SipPeer>
```

10.2 Enable Call Forwarding

The user can enable call forwarding on inservice numbers using the HTTP POST Request Format method.

10.2.1 HTTP POST Request Format

```
/accounts/<account-id>/sites/<site-id>/sippeers/<sippeer-id>/tns

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<SipPeerTelephoneNumber>
  <FullNumber>9192000046</FullNumber>
  <CallForward>9194394706</CallForward>
</SipPeerTelephoneNumber>
```

10.2.2 HTTP POST Response Format

The response format to the POST request in 10.2.1 is a 201 Create message.
10.2.3 HTTP POST Error Response Format

One possible error response format to the POST request in 10.2.1 is:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<SipPeerTelephoneNumberResponse>
<ResponseStatus>
<ErrorCode>13521</ErrorCode>
<Description>Telephone number '9192000036' is not on this site</Description>
</ResponseStatus>
</SipPeerTelephoneNumberResponse>
```

10.3 Retrieve Call Forwarding Information

The user can determine the call forwarding status on a TN using the call format below.

10.3.1 HTTP GET Request Format

/accounts/<account-id>/sites/<site-id>/sippeers/<sippeer-id>/tns/<tn#>

```xml
<SipPeerTelephoneNumberResponse>
<SipPeerTelephoneNumber>
<FullNumber>9192000046</FullNumber>
<CallForward>9194394706</CallForward>
</SipPeerTelephoneNumber>
</SipPeerTelephoneNumberResponse>
```

10.3.2 HTTP GET Error Response Format

One possible response format to the GET request in 10.3.1 is:

```xml
<SipPeerTelephoneNumberResponse>
<ResponseStatus>
<ErrorCode>13536</ErrorCode>
<Description>Telephone number 9192000036 does not exist on Account 14, Site 3, and Sip Peer 301455</Description>
</ResponseStatus>
</SipPeerTelephoneNumberResponse>
```

10.4 Deleting a SIP Peer Request

This operation is not allowed.
### 10.5 SIP Peers Status Codes

The status codes are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>The request has been successfully received.</td>
</tr>
<tr>
<td>201</td>
<td>Location header for create request returned</td>
</tr>
<tr>
<td>400</td>
<td>Client side error. For example one of the telephone numbers is not formatted correctly.</td>
</tr>
<tr>
<td>401</td>
<td>User is not authorized to perform operation</td>
</tr>
<tr>
<td>500</td>
<td>The system encountered an error and could not fulfill your request. Please attempt the request at a later time or contact inetwork customer experience team for help.</td>
</tr>
</tbody>
</table>
11 Search for Phone Numbers

There are a number of different resource paths for querying available telephone numbers in the number intelligence platform. These are:

1. Area Code or NPA
2. AvailableNpaNxx (List of NPA NXX quantities)
3. NPA-NXX with Local Calling Area
4. NPA-NXX-X with Local Calling Area
5. Rate Center
6. Toll Free Vanity
7. Toll Free Wild Card
8. State
9. City, State
10. Zip code
11. Lata (Telecom terminology)

Access a resource by sending an HTTP request to the number intelligence API server. The server replies with a response containing data and/or a status code. All resources are referenced in Section 6.

11.1 Search HTTP GET Request Format
See the different parameters starting in Section 11.6.

11.2 Search HTTP GET Response Format

Our APIs return XML in response to a query. The XML format is shown below:

```xml
<SearchResult>
  <ResultCount>1</ResultCount>
  <TelephoneNumberDetailList>
    <TelephoneNumberDetail>
      <City>KNIGHTDALE</City>
      <LATA>426</LATA>
      <RateCenter>KNIGHTDALE</RateCenter>
      <State>NC</State>
      <FullNumber>9192956932</FullNumber>
      <Tier>0</Tier>
      <VendorId>49</VendorId>
      <VendorName>Bandwidth CLEC</VendorName>
    </TelephoneNumberDetail>
  </TelephoneNumberDetailList>
</SearchResult>
```
11.2.1 Example HTTP GET Response (without TNDetail)

An example XML response to a query is:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<SearchResult>
  <ResultCount>5</ResultCount>
  <TelephoneNumberList>
    <TelephoneNumber>9194390154</TelephoneNumber>
    <TelephoneNumber>9194390158</TelephoneNumber>
    <TelephoneNumber>9194390176</TelephoneNumber>
    <TelephoneNumber>9194390179</TelephoneNumber>
    <TelephoneNumber>9194390185</TelephoneNumber>
  </TelephoneNumberList>
</SearchResult>
```

11.2.2 Example HTTP GET Response (with TNDetail)

An example XML response to a query is:

```xml
<SearchResult>
  <ResultCount>5</ResultCount>
  <TelephoneNumberDetailList>
    <TelephoneNumberDetail>
      <City>KNIGHTDALE</City>
      <LATA>426</LATA>
      <RateCenter>KNIGHTDALE</RateCenter>
      <State>NC</State>
      <FullNumber>9192956932</FullNumber>
      <Tier>0</Tier>
      <VendorId>49</VendorId>
      <VendorName>Bandwidth CLEC</VendorName>
    </TelephoneNumberDetail>
    <TelephoneNumberDetail>
      <City>KNIGHTDALE</City>
      <LATA>426</LATA>
      <RateCenter>KNIGHTDALE</RateCenter>
      <State>NC</State>
      <FullNumber>9192956984</FullNumber>
      <Tier>0</Tier>
      <VendorId>49</VendorId>
      <VendorName>Bandwidth CLEC</VendorName>
    </TelephoneNumberDetail>
  </TelephoneNumberDetailList>
</SearchResult>
```
11.2.3 Example HTTP Get Error Response Format

If the request is malformed or contains some other error, the response to the query is:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<SearchResult>
  <Error>
    <Code>4000</Code>
    <Description>
      The area code of telephone numbers can not end with 11.
    </Description>
  </Error>
</SearchResult>
```
11.3 Search Query Response Fields

The fields returned in the search response XML are:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResultCount</td>
<td>Number of results returned.</td>
</tr>
<tr>
<td>TelephoneNumberList</td>
<td>Contains 0 or more Telephone Number values. The TelephoneNumber field value is 10 digits in length. The quantity of TelephoneNumbers should equal the number displayed in ResultCount.</td>
</tr>
<tr>
<td>TelephoneNumberDetailList</td>
<td>Contains 0 or more TelephoneNumberDetail fields containing the telephone number and the rate center abbreviation, city, state, and LATA for the telephone number. This list will only be displayed for Non-TollFree number searches if the EnableTNDetail value is set to true.</td>
</tr>
<tr>
<td>Error</td>
<td>Contains a code value indicating an error sub code and a description field with detailed information on the error. See search error codes table for all possible values returned.</td>
</tr>
</tbody>
</table>

11.4 Search Status Codes

The various status codes are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Search request is complete and results returned.</td>
</tr>
<tr>
<td>200</td>
<td>Search request is complete and no results found (empty set returned). This occurs when numbers are not available for a search parameter.</td>
</tr>
<tr>
<td>400</td>
<td>Validation failed on one or more search filter input parameters. Please check the error code to see the possible cause.</td>
</tr>
</tbody>
</table>
The system encountered an error and could not fulfill your request. Please attempt the search request at a later time or contact Bandwidth Customer Experience Team for help.

11.5 Search Error Codes

The various error codes are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
</table>
| 4000 | Validation on the area code search input parameters failed due to one of the following:  
1. An area code was not supplied.  
2. The value was not a 3 digit number.  
3. The value started with a 0 or 1.  
4. The value started with a 37 or 96.  
5. The second digit of the value was a 9.  
6. The value ended with 11.  
7. Was a TollFree NPA (800, 855, 866, 877, 888)  
8. If a Quantity value was supplied and that value was less than zero. |
| 4001 | Validation on the rate center search input parameters failed due to one of the following:  
1. The rate center abbreviation was not supplied.  
2. The rate center abbreviation specified was invalid.  
   a) Needs to be a 1-15 letter word.  
   b) Is case-insensitive.  
3. The rate center state abbreviation was not supplied.  
4. The rate center state abbreviation was invalid:  
   a) Needs to be two-letter state abbreviation.  
   b) Is case-insensitive.  
5. If a Quantity value was supplied and that value was less than zero. |
| 4002 | Validation on the NPA-NXX and NPA-NXX-X search input parameters failed due to one of the following:  
1. A NPANXX or NPANXXX value was not supplied.  
2. The NPANXX or NPANXXX supplied was not a 6 or 7 digit number, respectively.  
3. The NPA started with a 0 or 1.  
4. The NPA started with a 37 or 96.  
5. The second digit of the NPA was a 9.  
6. The NPA ended with 11. |
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7.</td>
<td>The NXX value did not contain [2-9] for the first digit and [0-9] for both the second and third digits.</td>
</tr>
<tr>
<td>8.</td>
<td>The last X value in NPANXXX was not [0-9].</td>
</tr>
<tr>
<td>9.</td>
<td>The NPANXX or NPANXXX field indicated a TollFree NPA (800, 855, 866, 877, 888).</td>
</tr>
<tr>
<td>10.</td>
<td>If a Quantity value was supplied and that value was less than zero.</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4003 Validation on the TollFree vanity search input parameters failed due to one of the following:</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>A TollFree vanity value was not supplied.</td>
</tr>
<tr>
<td>2.</td>
<td>The value supplied was not seven or more characters.</td>
</tr>
<tr>
<td>3.</td>
<td>The characters supplied were not a combination of the letters [A-Z] (case-insensitive) or numbers [0-9].</td>
</tr>
<tr>
<td>4.</td>
<td>If a Quantity value was supplied and that value was less than zero.</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4004 Validation on the TollFree wildcard search input parameters failed due to:</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>A TollFree wildcardpattern value was not supplied.</td>
</tr>
<tr>
<td>2.</td>
<td>The value was not in the form of 8**, 80*, 88*, 87*, 86*, or 85*.</td>
</tr>
<tr>
<td>3.</td>
<td>If a quantity value was supplied and that value was less than zero.</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4005 Validation on the city search parameters failed due to:</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>A city and/or state value was not supplied.</td>
</tr>
<tr>
<td>2.</td>
<td>The city value was invalid:</td>
</tr>
<tr>
<td>a)</td>
<td>The characters supplied were not a combination of the letters [A-Z] (case-insensitive) or numbers [0-9].</td>
</tr>
<tr>
<td>b)</td>
<td>Spaces, commas, dashes, and the ` character are acceptable.</td>
</tr>
<tr>
<td>3.</td>
<td>The state abbreviation was invalid:</td>
</tr>
<tr>
<td>a)</td>
<td>Needs to be two-letter state abbreviation.</td>
</tr>
<tr>
<td>b)</td>
<td>Is case-insensitive.</td>
</tr>
<tr>
<td>4.</td>
<td>If a quantity value was supplied and that value was less than zero.</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4006 Validation on the state search parameters failed due to:</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>A state value was not supplied.</td>
</tr>
<tr>
<td>2.</td>
<td>The state abbreviation was invalid:</td>
</tr>
<tr>
<td>a)</td>
<td>Needs to be two-letter state abbreviation.</td>
</tr>
<tr>
<td>b)</td>
<td>Is case-insensitive.</td>
</tr>
<tr>
<td>3.</td>
<td>If a quantity value was supplied and that value was less than zero.</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4007 Validation on the zip code search parameters failed due to:</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>A zip code value was not supplied.</td>
</tr>
<tr>
<td>2.</td>
<td>The value should be a 5 digit format (XXXXX) or 9 digit format (XXXXX-XXXX).</td>
</tr>
<tr>
<td>3.</td>
<td>If a quantity value was supplied and that value was less than zero.</td>
</tr>
</tbody>
</table>
4008 Validation on the LATA search parameters failed due to:
1. A lata value was not supplied.
2. The value should be 5 digits or less.
3. If a quantity value was supplied and that value was less than zero.

4009 The system encountered an error and could not fulfill your request. Please attempt the search request at a later time or contact Bandwidth Customer Experience Team for help.

4010 The search type filter is null or does not contain a valid search type

## 11.6 Search Parameters
Note: parameters are case sensitive.

## 11.7 AreaCode or NPA
Search for available numbers in a specified area code.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>AreaCode</td>
<td>The allowed number ranges are [2-9] for the first digit and [0-9] for both the second and third digits.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
</tbody>
</table>

## 11.7.1 HTTP GET Request Format
To access a resource, append the resource name to the base URL.

```
/accounts/<accountid>/availableNumbers?areaCode=919
/accounts/<accountid>/availableNumbers?areaCode=919&quantity=5
/accounts/<accountid>/availableNumbers?areaCode=919&quantity=5&enableTNDetail=true
```
11.8 Available NPA NXX Quantities
This method returns a list of quantities per NPA-NXX for a user supplied area code.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>AreaCode</td>
<td>The allowed number ranges are [2-9] for the first digit and [0-9] for both the second and third digits.</td>
</tr>
</tbody>
</table>

11.8.1 HTTP GET Request Format
To access a resource, append the resource name to the base URL.

/accounts/<accountid>/availableNpaNxx?areaCode=919

11.8.2 Example HTTP GET Response

```xml
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<SearchResultForAvailableNpaNxx>
  <AvailableNpaNxxList>
    <AvailableNpaNxx>
      <City>NASHVILLE</City>
      <Npa>252</Npa>
      <Nxx>220</Nxx>
      <Quantity>1</Quantity>
      <State>NC</State>
    </AvailableNpaNxx>
    <AvailableNpaNxx>
      <City>FARMVILLE</City>
      <Npa>252</Npa>
      <Nxx>228</Nxx>
      <Quantity>1</Quantity>
      <State>NC</State>
    </AvailableNpaNxx>
  </AvailableNpaNxxList>
</SearchResultForAvailableNpaNxx>
```
11.9 NPA-NXX or NPA-NXX-X with Local Area Calling
Search for available numbers in a specified NPA-NXX or NPA-NXX-X. An enhanced feature of this method is to search for numbers in a Local Calling Area (LCA).

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>NpaNxx or NpaNxxx</td>
<td>NPA NXX combination to be searched. Valid npa values: [2-9] for the first digit, and [0-9] for both the second and third digits. Valid Nxx values: [2-9] for the first digit, and [0-9] for both the second and third digits. Valid x values [0-9].</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>LCA</td>
<td>Values are true or false. Default is true.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
</tbody>
</table>

11.9.1 HTTP GET Request Format
/accounts/<accountid>/availableNumbers?npaNxx=919439
/accounts/<accountid>/availableNumbers?npaNxx=919439&quantity=1
/accounts/<accountid>/availableNumbers?npaNxx=919439&LCA=true&quantity=1
/accounts/<accountid>/availableNumbers?npaNxx=919439&LCA=true&quantity=1&enableTNDetail=true

11.10 RateCenter with Local Area Calling
Search for available numbers in a specified rate center. An enhanced feature of this method is to search for numbers in a Local Calling Area (LCA).

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
</tbody>
</table>
current customer account.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RateCenter</td>
<td>The abbreviation for the RateCenter.</td>
</tr>
<tr>
<td>State</td>
<td>The two letter abbreviation of the state the RateCenter is in.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>LCA</td>
<td>Values are true or false. Default is true.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
</tbody>
</table>

**11.10.1 HTTP GET Request Format**

/accounts/<accountid>/availableNumbers?rateCenter=Cary&state=NC
/accounts/<accountid>/availableNumbers?rateCenter=Cary&state=NC&quantity=10
/accounts/<accountid>/availableNumbers?rateCenter=cary&state=NC&quantity=1&LCA=false

**11.11 TollFree Vanity**

Search for available TollFree numbers using a vanity format.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>TollFreeVanity</td>
<td>The Toll Free requested vanity number. Valid range is 7+ digits alphanumeric.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
</tbody>
</table>

**11.11.1 HTTP GET Request Format**

/accounts/<accountid>/availableNumbers?tollFreeVanity=NEWCARS
/accounts/<accountid>/availableNumbers?tollFreeVanity=NEWCARS&quantity=5
11.12 TollFree WildCard

Search for available TollFree numbers in a wildcard format.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>TollFreeWildCardPattern</td>
<td>The Toll Free requested wild card pattern. Valid range is 3 digits. Examples: - 8**, 80*, 87* etc.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
</tbody>
</table>

11.12.1 HTTP GET Request Format

/accounts/<accountid>/availableNumbers?tollFreeWildCardPattern=8**
/accounts/<accountid>/availableNumbers?tollFreeWildCardPattern=8**&quantity=10
/accounts/<accountid>/availableNumbers?tollFreeWildCardPattern=88*&quantity=10
/accounts/<accountid>/availableNumbers?tollFreeWildCardPattern=87*&quantity=10
/accounts/<accountid>/availableNumbers?tollFreeWildCardPattern=86*&quantity=10
/accounts/<accountid>/availableNumbers?tollFreeWildCardPattern=85*&quantity=10
/accounts/<accountid>/availableNumbers?tollFreeWildCardPattern=80*&quantity=10

11.13 State

Search for available numbers in the specified state.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>State</td>
<td>The two letter abbreviation of the state.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
</tbody>
</table>
11.13.1 HTTP GET Request Format

/accounts/<accountid>/availableNumbers?state=NC
/accounts/<accountid>/availableNumbers?state=NC&quantity=10

11.14 City/State

Search for available numbers in the specified city and state.

**Note:** Due to the inaccuracies that inherently reside with determining the exact location of telephone numbers, geography based searches are likely to have marginal errors.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>State</td>
<td>The two letter abbreviation of the state.</td>
</tr>
<tr>
<td>City</td>
<td>The name of the city.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
</tbody>
</table>

11.14.1 HTTP GET Request Format

/accounts/<accountid>/availableNumbers?city=CARY&state=NC
/accounts/<accountid>/availableNumbers?city=CARY&state=NC&quantity=1
/accounts/<accountid>/availableNumbers?city=CARY&state=NC&quantity=1&enableTNDetail=true

11.15 Zip Code

Search for available numbers in the specified zipcode.

**Note:** Due to the inaccuracies that inherently reside with determining the exact location of telephone numbers, geography based searches are likely to have marginal errors.
### Parameter | Description
---|---
Accountld | The desired account on which search is performed. This has to be the current customer account.
Zip | A five digit (XXXXX) or nine digit (XXXXX-XXXX) format value.
Quantity | The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.
EnableTNDetail | If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.

#### 11.15.1 HTTP GET Request Format

```
/accounts/<accountid>/availableNumbers?zip=27513
/accounts/<accountid>/availableNumbers?zip=27513&quantity=1
/accounts/<accountid>/availableNumbers?zip=27513&quantity=1&enableTNDetail=true
```

#### 11.16 LATA

Search the network for available numbers in the specified LATA.

### Parameter | Description
---|---
Accountld | The desired account on which search is performed. This has to be the current customer account.
Lata | A maximum five digit (XXXXX) numeric format.
Quantity | The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.
EnableTNDetail | If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.

#### 11.16.1 HTTP GET Request Format

```
/accounts/<accountid>/availableNumbers?lata=244
/accounts/<accountid>/availableNumbers?lata=244&quantity=1
/accounts/<accountid>/availableNumbers?lata=244&quantity=1&enableTNDetail=true
```
12 Ordering Phone Numbers

12.1 Creating an Order
The user can order numbers to their account using the HTTP POST Request Format method. This can be done either through a search for available numbers or by passing an order criterion. The creation of an order resource would return an order ID; which should be used in querying for the status for an order.

12.1.1 Order Request Format for REST
See the different parameters for various criteria starting in Section 12.5.

12.1.2 Order Response Format for REST
The inetwork APIs return XML in response to a query. In addition, an HTTP 201 location header message is returned for all requests. Sample is shown here:

Location: https://BASEURL/accounts/<accountid>/orders/order-id

The XML format is shown below:

```xml
<OrderResponse>
  <CompletedQuantity>10</CompletedQuantity>
  <CreatedByUser>userid</CreatedByUser>
  <OrderCompleteDate>2013-02-11T18:35:05.203Z</OrderCompleteDate>
  <Order>
    <CustomerOrderId>123456789</CustomerOrderId>
    <Name>Area Code order</Name>
    <OrderCreateDate>2013-02-11T18:35:05.018Z</OrderCreateDate>
    <PeerId>301557</PeerId>
    <AreaCodeSearchAndOrderType>
      <AreaCode>919</AreaCode>
      <Quantity>10</Quantity>
    </AreaCodeSearchAndOrderType>
    <SiteId>385</SiteId>
  </Order>
  <OrderStatus>COMPLETE</OrderStatus>
  <CompletedNumbers>
    <TelephoneNumber>
      <FullNumber>9192956833</FullNumber>
    </TelephoneNumber>
    <TelephoneNumber>
      <FullNumber>9192956835</FullNumber>
    </TelephoneNumber>
    <TelephoneNumber>
      <FullNumber>9192956836</FullNumber>
    </TelephoneNumber>
  </CompletedNumbers>
</OrderResponse>
```
12.2 **ExistingTelephoneNumberOrderType**

Prior to using this criterion, a search request is required to retrieve the desired telephone numbers. Once the numbers have been obtained, use this type to order the telephone numbers.

**Note**: you can also use this method to order numbers that were incorrectly disconnected and are in aging status.

The input parameters are:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountID</td>
<td>The numerical account ID that you will be ordering the numbers for.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the order. Max length restricted to 50 characters.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>TelephoneNumberList</td>
<td>A list of telephone numbers to order.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
<tr>
<td>CustomerOrderId</td>
<td>Optional value for Id set by customer.</td>
</tr>
<tr>
<td>SiteId</td>
<td>The Site or location id for the SIP Peer</td>
</tr>
</tbody>
</table>

### 12.2.1 HTTP POST Request Format

```
/accounts/<accountid>/orders

<Order>
  <Name>Available Telephone Number order</Name>
  <SiteId>385</SiteId>
  <CustomerOrderId>123456789</CustomerOrderId>
  <ExistingTelephoneNumberOrderType>
    <TelephoneNumberList>
      <TelephoneNumber>9193752369</TelephoneNumber>
      <TelephoneNumber>9193752720</TelephoneNumber>
      <TelephoneNumber>9193752648</TelephoneNumber>
    </TelephoneNumberList>
  </ExistingTelephoneNumberOrderType>
</Order>
```

### 12.3 Order Response Format

The order response format parameters are:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OrderId</td>
<td>The unique UUID returned which should be used to poll the order status using the “getOrderStatus” method.</td>
</tr>
<tr>
<td>UnAvailableQuantity</td>
<td>The total numbers not available for ordering. For the create order response, this field will always have an value of 0.</td>
</tr>
</tbody>
</table>
ErrorList

Contains a list of errors (error code and description) indicating detailed information on a problematic input parameter. Certain responses may contain a TelephoneNumber field, indicating the telephone number in which the error is associated with.

Status

Contains a Code field indicating an overall status code for the response. For REST responses, this field maps to a HTTP status code. The user should then inspect the ErrorList field, if present, to see more detailed information on the issue and the specific error code. See the Order Status Codes table for all possible status codes returned.

Description

The Description field explains the general cause of the problem (if any).

12.3.1 Example HTTP POST Response Format

```xml
<OrderResponse>
  <CompletedQuantity>3</CompletedQuantity>
  <CreatedByUser>userid</CreatedByUser>
  <FailedNumbers/>
  <OrderCompleteDate>2013-02-11T18:49:46.915Z</OrderCompleteDate>
  <Order>
    <CustomerOrderId>123456789</CustomerOrderId>
    <Name>Available Telephone Number order</Name>
    <OrderCreateDate>2013-02-11T18:49:46.854Z</OrderCreateDate>
    <PeerId>301557</PeerId>
    <ExistingTelephoneNumberOrderType/>
    <SiteId>385</SiteId>
  </Order>
  <OrderStatus>COMPLETE</OrderStatus>
  <CompletedNumbers>
    <TelephoneNumber>
      <FullNumber>9193752369</FullNumber>
    </TelephoneNumber>
    <TelephoneNumber>
      <FullNumber>9193752648</FullNumber>
    </TelephoneNumber>
    <TelephoneNumber>
      <FullNumber>9193752720</FullNumber>
    </TelephoneNumber>
  </CompletedNumbers>
  <FailedQuantity>0</FailedQuantity>
</OrderResponse>
```
12.4 Order Status Codes

The various status codes for Ordering are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Successful creation of order with Order Id</td>
</tr>
<tr>
<td>400</td>
<td>Invalid parameters in request</td>
</tr>
<tr>
<td>401</td>
<td>User is not authorized to initiate order request</td>
</tr>
<tr>
<td>404</td>
<td>Resource not found</td>
</tr>
<tr>
<td>500</td>
<td>The system encountered an error and could not fulfill the request. Resubmit the request at a later time or contact inetwork customer experience team for help.</td>
</tr>
</tbody>
</table>

12.5 AreaCode or NPA Search and Order

Use this method to search and order available numbers in a specified area code.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>AreaCode</td>
<td>Allowed ranges: [2-9] for the first digit and [0-9] for both the second and third digits.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the order. Maximum length is restricted to 50 characters.</td>
</tr>
</tbody>
</table>
EnableTNDetail | If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.

CustomerOrderId | Optional value for Id set by customer.

SiteId | The Site or location id for the SIP Peer

### 12.5.1 HTTP POST Request Format

`/accounts/<accountid>/orders`

```xml
<Order>
  <Name>Area Code Order</Name>
  <SiteId>385</SiteId>
  <CustomerOrderId>123456789</CustomerOrderId>
  <AreaCodeSearchAndOrderType>
    <AreaCode>617</AreaCode>
    <Quantity>1</Quantity>
  </AreaCodeSearchAndOrderType>
</Order>
```

### 12.6 Rate Center with Local Area Calling Search and Order

Use this method to search and order available numbers in a specified rate center. An enhanced feature of this method is to order numbers in a Local Calling Area (LCA).

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>RateCenter</td>
<td>The abbreviation for the RateCenter.</td>
</tr>
<tr>
<td>State</td>
<td>The two letter abbreviation of the state the RateCenter is in.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
</tbody>
</table>
EnableLCA | If set to true, enables the ability to get local calling access numbers if numbers are not available for the given criteria. Default is true.
--- | ---
Name | The name of the order. Max length restricted to 50 characters.
EnableTNDetail | If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.
CustomerOrderId | Optional value for Id set by customer.
SiteId | The Site or location id for the SIP Peer

**12.6.1 HTTP POST Request Format**

/accounts/<accountid>/orders

```xml
<Order>
  <Name>Rate Center Order</Name>
  <SiteId>385</SiteId>
  <CustomerOrderId>123456789</CustomerOrderId>
  <RateCenterSearchAndOrderType>
    <RateCenter>RALEIGH</RateCenter>
    <State>NC</State>
    <Quantity>1</Quantity>
  </RateCenterSearchAndOrderType>
</Order>
```

**12.7 NPA-NXX or NPA-NXX-X with Local Calling Search and Order**

Use this method to search and order available numbers in a specified NPA-NXX or NPA-NXX-X. An enhanced feature of this method is to order numbers in a Local Calling Area (LCA).

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
</tbody>
</table>
NPA-NXX or NPA-NXX-X
NPA NXX combination to be searched.
Valid NPA values: [2-9] for the first digit, and [0-9] for both the second and third digits.
Valid NXX values: [2-9] for the first digit, and [0-9] for both the second and third digits.
Valid X values [0-9].

Quantity
The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.

EnableLCA
If set to true, enables the ability to get local calling access numbers if numbers are not available for the given criteria. Default is true.

Name
The name of the order. Max length restricted to 50 characters.

EnableTNDetail
If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.

CustomerOrderId
Optional value for Id set by customer.

SiteId
The Site or location id for the SIP Peer

12.7.1 HTTP POST Request Format
/accounts/<accountid>/orders

<Order>
  <Name>NPANXX Order</Name>
  <SiteId>385</SiteId>
  <CustomerOrderId>123456789</CustomerOrderId>
  <NPANXXSearchAndOrderType>
    <NpaNxx>919439</NpaNxx>
    <EnableTNDetail>true</EnableTNDetail>
    <EnableLCA>false</EnableLCA>
    <Quantity>1</Quantity>
  </NPANXXSearchAndOrderType>
12.8 TollFree Vanity Search and Ordering

Use this method to search and order available TollFree numbers in vanity format.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>Vanity</td>
<td>The TollFree requested vanity number. Valid range is 7 alphanumeric characters. More than 7 characters will be ignored.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the order. Max length restricted to 50 characters.</td>
</tr>
</tbody>
</table>

12.8.1 HTTP POST Request Format

/accounts/<accountid>/orders

<Order>
  <Name>TF Vanity Order</Name>
  <SiteId>385</SiteId>
  <CustomerOrderId>123456789</CustomerOrderId>
  <TollFreeVanitySearchAndOrderType>
    <Quantity>1</Quantity>
    <TollFreeVanity>newcars</TollFreeVanity>
  </TollFreeVanitySearchAndOrderType>
</Order>
12.9 TollFree WildCard Search and Ordering

Use this method to search and order available TollFree numbers in a wildcard format.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>TollFreeWildCardPattern</td>
<td>The Toll Free requested wild card pattern. Valid range is 3 digits. Examples:- 8**, 80*, 87* etc.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the order. Max length restricted to 50 characters.</td>
</tr>
<tr>
<td>CustomerOrderId</td>
<td>Optional value for Id set by customer.</td>
</tr>
<tr>
<td>SiteId</td>
<td>The Site or location id for the SIP Peer</td>
</tr>
</tbody>
</table>

12.9.1 HTTP POST Request Format

```
(accounts/<accountid>/orders

<Order>
  <Name>TF Order</Name>
  <SiteId>385</SiteId>
  <CustomerOrderId>123456789</CustomerOrderId>
  <TollFreeWildCharSearchAndOrderType>
    <Quantity>1</Quantity>
    <TollFreeWildCardPattern>8**</TollFreeWildCardPattern>
  </TollFreeWildCharSearchAndOrderType>
</Order>
```

12.10 State Search and Ordering

Use this method to search and order available numbers in the specified state.
Note: Due to the inaccuracies that inherently reside with determining the exact location of telephone numbers, geography based searches are likely to have marginal errors.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>State</td>
<td>The two letter abbreviation of the state.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the order. Max length restricted to 50 characters.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
<tr>
<td>CustomerOrderId</td>
<td>Optional value for Id set by customer.</td>
</tr>
<tr>
<td>Siteld</td>
<td>The Site or location id for the SIP Peer</td>
</tr>
</tbody>
</table>

12.10.1 HTTP POST Request Format

/accounts/<accountid>/orders

<Order>
  <Name>State Order</Name>
  <Siteld>385</Siteld>
  <CustomerOrderId>123456789</CustomerOrderId>
  <StateSearchAndOrderType>
    <Quantity>1</Quantity>
    <State>NC</State>
  </StateSearchAndOrderType>
</Order>
12.11 City/State Search and Ordering

Use this method to search and order available numbers in the specified city and state.

**Note:** Due to the inaccuracies that inherently reside with determining the exact location of telephone numbers, geography based searches are likely to have marginal errors.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>State</td>
<td>The two letter abbreviation of the state.</td>
</tr>
<tr>
<td>City</td>
<td>The name of the city.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the order. Max length restricted to 50 characters.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
<tr>
<td>CustomerOrderId</td>
<td>Optional value for Id set by customer.</td>
</tr>
<tr>
<td>SiteId</td>
<td>The Site or location id for the SIP Peer</td>
</tr>
</tbody>
</table>

12.11.1 HTTP POST Request Format

```
/accounts/<accountid>/orders
```

```
<Order>
  <Name>City/State Order</Name>
  <SiteId>385</SiteId>
  <CustomerOrderId>123456789</CustomerOrderId>
  <CitySearchAndOrderType>
```
12.12 Zip Code Search and Ordering

Use this method to search and order available numbers in the specified zip code.

**Note:** Due to the inaccuracies that inherently reside with determining the exact location of telephone numbers, geography based searches are likely to have marginal errors.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>Zip</td>
<td>A five digit (XXXXX) or nine digit (XXXXX-XXXX) format value.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the order. Max length restricted to 50 characters.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
<tr>
<td>CustomerOrderIds</td>
<td>Optional value for Id set by customer.</td>
</tr>
<tr>
<td>SiteId</td>
<td>The Site or location id for the SIP Peer</td>
</tr>
</tbody>
</table>

**12.12.1 HTTP POST Request Format**

`/accounts/<accountid>/orders`
<Order>
  <Name>Zip Order</Name>
  <SiteId>385</SiteId>
  <CustomerOrderId>123456789</CustomerOrderId>
  <ZIPSearchAndOrderType>
    <Quantity>1</Quantity>
    <Zip>27606</Zip>
  </ZIPSearchAndOrderType>
</Order>

12.13 LATA Search and Ordering

Use this method to search and order available numbers in a specified LATA.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountId</td>
<td>The desired account on which search is performed. This has to be the current customer account.</td>
</tr>
<tr>
<td>LATA</td>
<td>A maximum five digit (XXXXX) numeric format.</td>
</tr>
<tr>
<td>Quantity</td>
<td>The desired quantity of requested numbers. Values range from 1-5000. If no quantity is specified, the default of 5000 is returned.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the order. Max length restricted to 50 characters.</td>
</tr>
<tr>
<td>EnableTNDetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. This value is set to false by default.</td>
</tr>
<tr>
<td>CustomerOrderId</td>
<td>Optional value for Id set by customer.</td>
</tr>
<tr>
<td>SiteId</td>
<td>The Site or location id for the SIP Peer</td>
</tr>
</tbody>
</table>

12.13.1 HTTP POST Request Format
/accounts/<accountid>/orders

<Order>
<Name>Lata Order</Name>
<SiteId>385</SiteId>
<CustomerOrderId>123456789</CustomerOrderId>
<LATASearchAndOrderType>
  <Quantity>1</Quantity>
  <Lata>224</Lata>
</LATASearchAndOrderType>
</Order>
13 Disconnecting Phone Numbers

Use this method to disconnect telephone numbers from the account. The input parameters are:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountID</td>
<td>The numerical Account ID that you will be disconnecting the numbers from.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the order. Max length restricted to 50 characters.</td>
</tr>
<tr>
<td>TelephoneNumberList</td>
<td>A list of telephone numbers to disconnect.</td>
</tr>
</tbody>
</table>

13.1.1 HTTP POST Request Format

```
(accounts/<accountid>/disconnects
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<DisconnectTelephoneNumberOrder>
  <name>test disconnect order 4</name>
  <DisconnectTelephoneNumberOrderType>
    <TelephoneNumberList>
      <TelephoneNumber>9192755378</TelephoneNumber>
      <TelephoneNumber>9192755703</TelephoneNumber>
    </TelephoneNumberList>
  </DisconnectTelephoneNumberOrderType>
</DisconnectTelephoneNumberOrder>
```

**Note:** An ‘OrderID’ is returned immediately which can be queried for status similar to the regular orders.
14 Reporting

Use this method for requesting specific number information associated with an account or order.

Note: Pagination is in effect so page link is required.

Example: (https://api.inetwork.com/v1.0/accounts/id/orders?page=1&size=5000)

14.1.1 Sites Reporting

14.1.1.1 All Sites on an account
GET /accounts/<account-id>/sites

14.1.1.2 Specific Site details
GET /accounts/<account-id>/sites/<sites-id>

14.1.2 SIP Peer Reporting

14.1.2.1 All SIP Peers on an account
GET /accounts/<account-id>/sites/<sites-id>/sippeers

14.1.2.2 Specific SIP Peer details
GET /accounts/<account-id>/sites/<sites-id>/sippeers/<sippeer-id>

14.1.2.3 SIP Peer TN’s
GET /accounts/<account-id>/sites/<sites-id>/sippeers/<sippeer-id>/tns

14.2 GET Order Status
The user can retrieve the status of their orders by querying on the unique identifier returned in the initial response. There are several different ways of querying the system. These are:

14.2.1 Retrieve all TNs for an order id
/accounts/<accountid>/orders/order-id

14.2.2 Retrieve all TNs for an order with details
/accounts/<accountid>/orders/order-id?tndetail=true
14.2.3 Retrieve all orders for a user id
/accounts/<accountid>/orders?userid=<userid>

14.2.4 Retrieve all orders for an account id
/accounts/<accountid>/orders

14.2.5 Retrieve all orders placed within a date range
/accounts/<accountid>/orders?startdate=YY-MM-DD&enddate=YY-MM-DD

14.2.6 Retrieve all TNs ordered within a date range

Parameters used in the order status calls are:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OrderID</td>
<td>The unique identifier associated with the create order request.</td>
</tr>
<tr>
<td>Userid</td>
<td>Credentials used to place an order</td>
</tr>
<tr>
<td>Startdate</td>
<td>Starting date for the order. Format is YY-MM-DD</td>
</tr>
<tr>
<td>Enddate</td>
<td>Ending date for the order. Format is YY-MM-DD</td>
</tr>
<tr>
<td>Tndetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. Default value is false.</td>
</tr>
</tbody>
</table>

14.2.7 Retrieve all TNs based on CustomerOrderId
/accounts/<account-id>/orders?customerOrderId=<value>

Note: The same CustomerOrderId can be used for multiple orders by entering in the same CustomerOrderId for the additional orders placed. For example, if you order 10K TNs (since the API limit is 5000 TNs per order), two separate orders must be submitted. Each order will generate a unique external ID with the option of entering the CustomerOrderId that can be used to retrieve all TNs associated with the same CustomerOrderId on different orders.

The XML response format is:

<OrderResponse>
14.2.8 Example HTTP GET Order Error Response Format

A sample XML error response for the HTTP GET /accounts/<accountid>/orders/orderid call is:

```xml
<OrderResponse>
  <CompletedQuantity>0</CompletedQuantity>
  <CreatedByUser>jbm</CreatedByUser>
  <ErrorList>
    <Error>
      <Code>5018</Code>
      <Description>The entire quantity of telephonenumbers ordered are unavailable</Description>
    </Error>
  </ErrorList>
</OrderResponse>
```
14.3 Get Order Error Codes

The various error codes are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000</td>
<td>The account id specified does not exist or is incorrect.</td>
</tr>
<tr>
<td>5001</td>
<td>The input telephone number list required by the order request was not supplied.</td>
</tr>
<tr>
<td>5002</td>
<td>Validation error occurred on an input parameter. The description of the error indicates a potential cause for the failure in validation.</td>
</tr>
<tr>
<td>5003</td>
<td>Provisioning of the telephone numbers was not successful and the order could not be completed. The order can be resubmitted at a later time. If this error persists, please contact Bandwidth customer experience team for assistance.</td>
</tr>
<tr>
<td>5004</td>
<td>The vendor id specified does not exist or is incorrect.</td>
</tr>
<tr>
<td>5005</td>
<td>The telephone number specified is unavailable to be ordered or cannot be imported. Possible causes that a telephone number cannot be ordered include: 1. The number is already in-service (either on your account or someone else’s account).</td>
</tr>
</tbody>
</table>
2. The number does not exist in our system. Possible cause that a telephone number cannot be imported:
   1. The number already exists in our system.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5006</td>
<td>The telephone number specified cannot be disconnected because it is not associated with your account or does not exist in the system.</td>
</tr>
<tr>
<td>5007</td>
<td>Exceeded the maximum number of telephone numbers that can be imported or ordered.</td>
</tr>
<tr>
<td>5008</td>
<td>None of the telephone numbers supplied in the request are valid. Please recheck that all of the numbers specified in the input list are correct.</td>
</tr>
<tr>
<td>5009</td>
<td>The quantity specified in the order request is invalid.</td>
</tr>
<tr>
<td>5010</td>
<td>The LNP operation specified is undefined.</td>
</tr>
<tr>
<td>5011</td>
<td>No tiers are defined for the account specified in the order.</td>
</tr>
<tr>
<td>5012</td>
<td>The account is locked. Please contact inetwork customer experience team for further assistance.</td>
</tr>
<tr>
<td>5013</td>
<td>The holding account could not be resolved. Please contact inetwork customer experience team for further assistance.</td>
</tr>
<tr>
<td>5014</td>
<td>The dlld request timed out. Please resubmit your request.</td>
</tr>
<tr>
<td>5015</td>
<td>The lidb request timed out. Please resubmit your request.</td>
</tr>
<tr>
<td>5016</td>
<td>The site ID you submitted is not valid</td>
</tr>
<tr>
<td>5017</td>
<td>Only a partial quantity of the total telephonenumbers ordered could be fulfilled</td>
</tr>
<tr>
<td>5018</td>
<td>The entire quantity of telephonenumbers ordered is unavailable</td>
</tr>
<tr>
<td>5019</td>
<td>Order is pending. Please check the status of your order later.</td>
</tr>
</tbody>
</table>

14.4  TN’s

14.4.1 List of TNs against an Order Id

HTTP GET /accounts/<accountid>/orders/orderid/tns
14.4.2 TN Status Check – In service
HTTP GET /tns/#

14.4.3 List of Inservice TN’s for an account
HTTP GET /accounts/<accountid>/inserviceNumbers

14.4.4 Count of Inservice TN’s Total
GET /accounts/<accountid>/inserviceNumbers/ totals

14.4.5 List of Inservice TN’s for NPA
GET /accounts/<id>/inserviceNumbers;type=NPA

14.4.6 List of Inservice TN’s for NPA NXX
GET /accounts/<id>/inserviceNumbers;type=NPANXX

14.4.7 List of Inservice TN’s for NPA NXX X
GET /accounts/<id>/inserviceNumbers;type=NPANXXX

14.4.8 List of Inservice TN’s for a Rate Center
GET /accounts/<id>/inserviceNumbers;type=RC

14.4.9 List of Inservice TN’s for a State
GET /accounts/<id>/inserviceNumbers;type=ST

14.4.10 List of Inservice TN’s for a specific Area Code
GET /accounts/<accountid>/inserviceNumbers?areaCode=<areacode>

14.4.11 List of Inservice TN’s for a specific NPANXX
GET /accounts/<accountid>/inserviceNumbers?npaNxx=<NPANXX>

14.4.12 List of Inservice TN’s for a specific NPANXX X
GET /accounts/<accountid>/inserviceNumbers?npaNxxx=<NPANXXX>

14.4.13 List of Inservice TN’s for a specific City and State
GET /accounts/<accountid>/inserviceNumbers?city=<city>&state=<state>
14.4.14 List of Inservice TN’s for a specific Rate Center
GET
/accounts/<accountid>/inserviceNumbers?rateCenter=<rateCenter>&state=<state>

14.4.15 List of Inservice TN’s for a specific LATA
GET /accounts/<accountid>/inserviceNumbers?lata=<latavalue>

14.4.16 List of Inservice TN’s for a specific TollFree
GET /accounts/<accountid>/inserviceNumbers?areaCode=8**
To get specific TollFree numbers enter an additional digit: Example: (87*, 86*, 85*)

14.4.17 List of Inservice TN’s for a specific Date Range
GET /accounts/<accountid>/inserviceNumbers?startdate=YY-MM-DD&enddate=YY-MM-DD

14.4.18 List of Inservice TN’s for a specific Area Code and Date Range

14.4.19 List of Inservice TN’s for a specific NPANXX and Date Range
GET /accounts/<accountid>/inserviceNumbers?npaNxx=<NPANXX>&startdate=YY-MM-DD&enddate=YY-MM-DD

14.4.20 List of Inservice TN’s for a specific NPANXX X and Date Range
GET /accounts/<accountid>/inserviceNumbers?npaNxx=<NPANXXX>&startdate=YY-MM-DD&enddate=YY-MM-DD

14.4.21 List of Inservice TN’s for a specific Rate Center and Date Range
GET
/accounts/<accountid>/inserviceNumbers?rateCenter=<rateCenter>&state=<state>&startdate=YY-MM-DD&enddate=YY-MM-DD

14.4.22 List of Inservice TN’s for a specific State and Date Range
GET
/accounts/<accountid>/inserviceNumbers?rateCenter=<rateCenter>&state=<state>&startdate=YY-MM-DD&enddate=YY-MM-DD
14.4.23 List of Inservice TN’s for a specific City, State and Date Range

GET /accounts/<accountid>/inserviceNumbers?city=<city>&state=<state>&startdate=YY-MM-DD&enddate=YY-MM-DD

14.4.24 List of Inservice TN’s for a specific LATA and Date Range

GET /accounts/<accountid>/inserviceNumbers?lata=<lata>&startdate=YY-MM-DD&enddate=YY-MM-DD

14.5 GET List of Inservice TN’s for a specific SIP Peer with Call Forwarding enabled

Note: GET will list all inservice TN’s associated with a SIP Peer and Call Forwarding will be identified if applicable.

GET /accounts/<account-id>/sites/<site-id>/sippeers/<sippeer-id>/tns/

14.6 GET Disconnect Order Status

Note: Pagination is in effect so page link is required.

Example: (https://api.inetwork.com/v1.0/accounts/id/disconnects?page=1&size=5000)

The user can retrieve the status of their disconnect orders by querying on the unique identifier returned in the initial response. There are several different ways of querying the system. These are:

14.6.1 Retrieve all TNs for a disconnect order id
/accounts/<accountid>/disconnects/order-id

14.6.2 Retrieve all TNs for a disconnect order with details
/accounts/<accountid>/disconnects/order-id?tnDetail=true

14.6.3 Retrieve all disconnect orders for a userid
/accounts/<accountid>/disconnects?userid=<userid>

14.6.4 Retrieve all disconnect orders for an accountid
/accounts/<accountid>/disconnects
14.6.5 Retrieve all disconnect orders placed within a date range
/accounts/<accountid>/disconnects?startdate=YY-MM-DD&enddate=YY-MM-DD

14.6.6 Retrieve all TNs disconnected within a date range

14.7 GET Disconnect TN Details

https://api.inetwork.com/v1.0/accounts/<accountid>/discNumbers

14.7.1 List of Disconnected TN’s for an account
HTTP GET /accounts/<accountid>/discNumbers

14.7.2 Count of Disconnected TN’s Total
GET /accounts/<accountid>/discNumbers/totals

14.7.3 List of Disconnected TN’s for NPA
GET /accounts/<id>/discNumbers?type=NPA

14.7.4 List of Disconnected TN’s for NPA NXX
GET /accounts/<id>/discNumbers?type=NPANXX

14.7.5 List of Disconnected TN’s for NPA NXX X
GET /accounts/<id>/discNumbers?type=NPANXXX

14.7.6 List of Disconnected TN’s for a Rate Center
GET /accounts/<id>/discNumbers?type=RC

14.7.7 List of Disconnected TN’s for a State
GET /accounts/<id>/discNumbers?type=ST

14.7.8 List of Disconnected TN’s for a specific Area Code
GET /accounts/<accountid>/discNumbers?areaCode=<areacode>

14.7.9 List of Disconnected TN’s for a specific NPANXX
GET /accounts/<accountid>/discNumbers?npaNxx=<NPANXX>
14.7.10 List of Disconnected TN’s for a specific NPANXX X
GET /accounts/<accountid>/discNumbers?npaNxxx=<NPANXXX>

14.7.11 List of Disconnected TN’s for a specific City and State
GET /accounts/<accountid>/discNumbers?city=<city>&state=<state>

14.7.12 List of Disconnected TN’s for a specific Rate Center
GET /accounts/<accountid>/discNumbers?rateCenter=<rateCenter>&state=<state>

14.7.13 List of Disconnected TN’s for a specific LATA
GET /accounts/<accountid>/discNumbers?lata=<latavalue>

14.7.14 List of Disconnected TN’s for a specific TollFree
GET /accounts/<accountid>/discNumbers?areaCode=8**
To get specific TollFree numbers enter an additional digit: Example: (87*, 86*, 85*)

14.7.15 List of Disconnected TN’s for a specific Date Range
GET /accounts/<accountid>/discNumbers?startdate=YY-MM-DD&enddate=YY-MM-DD

14.7.16 List of Disconnected TN’s for a specific Area Code and Date Range

14.7.17 List of Disconnected TN’s for a specific NPANXX and Date Range
GET /accounts/<accountid>/discNumbers?npaNxx=<NPANXX>&startdate=YY-MM-DD&enddate=YY-MM-DD

14.7.18 List of Disconnected TN’s for a specific NPANXX X and Date Range
GET /accounts/<accountid>/discNumbers?npaNxxx=<NPANXXX>&startdate=YY-MM-DD&enddate=YY-MM-DD

14.7.19 List of Disconnected TN’s for a specific Rate Center and Date Range
GET /accounts/<accountid>/discNumbers?rateCenter=<rateCenter>&state=<state>&startdate=YY-MM-DD&enddate=YY-MM-DD
14.7.20 List of Disconnected TN’s for a specific State and Date Range

GET
/accounts/<accountid>/discNumbers?rateCenter=<rateCenter>&state=<state>&startdate=YY-MM-DD&enddate=YY-MM-DD

14.7.21 List of Disconnected TN’s for a specific City, State and Date Range

GET /accounts/<accountid>/discNumbers?city=<city>&state=<state>&startdate=YY-MM-DD&enddate=YY-MM-DD

14.7.22 List of Disconnected TN’s for a specific LATA and Date Range

GET /accounts/<accountid>/discNumbers?lata=<lata>&startdate=YY-MM-DD&enddate=YY-MM-DD

Parameters used in the disconnect order status calls are:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OrderID</td>
<td>The unique identifier associated with the disconnect order request.</td>
</tr>
<tr>
<td>Userid</td>
<td>Credentials used to place a disconnect order</td>
</tr>
<tr>
<td>Startdate</td>
<td>Starting date for the disconnect order. Format is YY-MM-DD</td>
</tr>
<tr>
<td>Enddate</td>
<td>Ending date for the disconnect order. Format is YY-MM-DD</td>
</tr>
<tr>
<td>Tndetail</td>
<td>If set to true, a list of details associated with the telephone number (rate center abbreviation, city, state, and LATA) will be displayed along with the telephone number. Default value is false.</td>
</tr>
</tbody>
</table>

14.7.23 Example HTTP GET Disconnect Order Response Format

(accounts/<accountid>/disconnects/{orderId})

The XML response format is:
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<DisconnectTelephoneNumberOrderResponse>
  <DisconnectedTelephoneNumberList>
    <TelephoneNumber>9194049102</TelephoneNumber>
  </DisconnectedTelephoneNumberList>
  <orderRequest>
    <id>0efd57ed-24a6-4084-ba89-6cf8c9b91e</id>
    <name>test disconnect order</name>
    <DisconnectTelephoneNumberOrderType>
      <EnableTNDetail>false</EnableTNDetail>
      <TelephoneNumberList>
        <TelephoneNumber>9194049102</TelephoneNumber>
      </TelephoneNumberList>
    </DisconnectTelephoneNumberOrderType>
  </orderRequest>
</DisconnectTelephoneNumberOrderResponse>

14.7.24 Example HTTP GET Disconnect Order Error Response Format

A sample XML error response for the HTTP GET /accounts/<accountid>/disconnects/orderid call is:

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<DisconnectTelephoneNumberOrderResponse>
  <ErrorList>
    <Error>
      <Code>5006</Code>
      <Description>
        The telephone number 9192755703 could not be disconnected since it is not associated with your account
      </Description>
      <TelephoneNumber>9192755703</TelephoneNumber>
    </Error>
    <Error>
      <Code>5006</Code>
      <Description>
        The telephone number 9192755378 could not be disconnected since it is not associated with your account
      </Description>
      <TelephoneNumber>9192755378</TelephoneNumber>
    </Error>
  </ErrorList>
  <orderRequest>
    <id>9968f2bc-974a-4435-8954-e03122011a07</id>
  </orderRequest>
</DisconnectTelephoneNumberOrderResponse>
<name>test disconnect order 4</name>
<DisconnectTelephoneNumberOrderType>
  <EnableTNDetail>false</EnableTNDetail>
  <TelephoneNumberList>
    <TelephoneNumber>9192755703</TelephoneNumber>
    <TelephoneNumber>9192755378</TelephoneNumber>
  </TelephoneNumberList>
</DisconnectTelephoneNumberOrderType>
</orderRequest>
</DisconnectTelephoneNumberOrderResponse>

14.8 GET Disconnect Error Codes

The error codes are the same as those defined in Section 0.