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| Colt Number Hosting  2nd December 2023 Release Notes |

# Introduction

This document describes the Colt Number Hosting 2nd December 2023 release.

The release will focus on:

* REST API transformation
* Introduction of NL 088 numbers
* Number on Demand & API improvements
* Regulatory change in Spain

**These changes might imply development at your end, so please read this document carefully.**

The changes in this release require your support during our test period. The Customer UAT is planned from 16th October 2023 to 27th October 2023. Please get in touch with [NumberHostingUATSupportTeam@COLT.NET](mailto:NumberHostingUATSupportTeam@COLT.NET) if you would like to participate in the UAT.

# Document change control

|  |  |
| --- | --- |
| **Version** | **Change description** |
| V1 | 2nd December 2023 Release note  Please note code breaking changes are shown in section “Numbers on Demand (NOD) and B2B API improvements” |
| V2 | document updates:   1. Updated the country scope for change number 5 in section Numbers on Demand (NOD) and B2B API improvements 2. New appendix added to share the updated rejection/CFA reason list (***Appendix C: Rejection and CFA reason list***) |
| V3 | Document update highlighted in blue:   1. New REST API numberCollectionBulkOrder- new release date 2. Added updated rejection reason list (***Appendix C: Rejection and CFA reason list***) |

# REST API transformation

In this release we will support Next Gen REST APIs for the SOAP APIs listed below.

This is further described in *OAS Specification for NH APIs*.

|  |  |  |
| --- | --- | --- |
| SOAP API | REST API | Operation |
| numberReactivation  portInReactivation | POST/numberCollectionReactivation | Reactivate the colt owned/ported-in or customer owned number |
| bulkNhTransactions | POST/numberCollectionBulkOrder | place bulk activation, portin and address update request |

Our Next Gen APIs:-

* Conform to the Industry standard REST-JSON APIs
* Align with TMF conventions
* Support OAuth2.0 and JWT based authentication and authorisation
* Support open API specifications (earlier swagger)
* Offer a standard format for numbers, date-time, etc
* Optimize fields

## New API Details

### POST/numberCollectionReactivation

#### **Description**

POST/numberCollectionReactivation API allows you to reactivate the quarantined/portIn quarantined numbers.

Only if cliStatus = Quarantined or PortIn\_Quarantined

Number will be reassigned to the same end-user, meaning end-user information such as name, address, … will be fetched from the previous record and are not required. The Colt network will be reconfigured and the number will be ready to be used again.

|  |  |  |
| --- | --- | --- |
| Country | Current cliStatus | target cliStatus |
| All | Quarantined | Activated |
| FR, NL, PT, ES, SE, CH | PortIn\_Quarantined | PortIn\_Activated |

#### **Input parameter(s)**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| **Header** | | |
| APIGWTrackingId | Mandatory | description: Unique identifier for the order  *example: abcd456e-d45645-dfaafda-1232345667dd*  pattern: ^[\w.~:@-]{1,255}$ |
| **Request body** | | |
| serviceProfile | Mandatory | Service profile associated with number |
| startFullNumber | Conditional Mandatory | E164NumberType  string maxLength: 20 example: +442081324758  *‘startFullNumber’ + ‘endFullNumber’ or ‘cli’ is required in the request* |
| endFullNumber | Conditional Mandatory | E164NumberType  string maxLength: 20 example: +442081324758  *‘startFullNumber’ + ‘endFullNumber’ or ‘cli’ is required in the request* |
| Cli | Conditional Mandatory | This field can be used if search is required for a single CLI.  E164NumberType  string maxLength: 20 example: +442081324758  *‘startFullNumber’ + ‘endFullNumber’ or ‘cli’ is required in the request* |

#### **Request Schema**

reactivateNumberCollection**{**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| cliList | [ *minItems: 1 maxItems: 1*  basicCliOrRangeType{   |  |  | | --- | --- | | cli | E164NumberType  string *maxLength: 20 example: +442081324758* | | startFullNumber | E164NumberType  string *maxLength: 20 example: +442081324758* | | endFullNumber | E164NumberType  string *maxLength: 20 example: +442081324758* | |  |  |   }] |
| relatedParty\* | reactivationRelatedPartyType{   |  |  |  |  | | --- | --- | --- | --- | | reseller\* | resellerType{   |  |  | | --- | --- | | serviceProfile\* | serviceProfileType  string  service profile associated with customer request |   } |   } |
| productOffering\* | productOfferingType{   |  |  | | --- | --- | | name | String  Enum: [ Geographic Number Hosting ] | |  |  |   } |
|  |  |

**}**

#### **Response Schema**

**asynchResponseType**

{

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| order | {   |  |  | | --- | --- | | id | orderIdType  string($[A-Za-z0-9\-]{1,36})  Pattern to be updated. GUID format | | href | string *example: https://apimgd01.colt.net/numberManagement/v2/numberCollectionOperation* |   } |

}

**Headers**

|  |  |  |
| --- | --- | --- |
| Name | Description | Type |
| APIGWTrackingId | Id to track the request end to end | string *Example: abcd456e-d45645-dfaafda-1232345667dd* |
| Content-Type |  | string |

#### **Sample request and response**

|  |  |
| --- | --- |
| Request | Response |
| {    "cliList": [      {        "startFullNumber": "+441133608944",        "endFullNumber": "+441133608944"      }    ],    "relatedParty": {      "reseller": {        "serviceProfile": "XXX"      }    },    "productOffering": {      "name": "Geographic Number Hosting"    }  } | {      "order": {          "id": "75dbc3a1-fff6-4574-b8f6-96a40389afed",          "href": "https://apimgd01.colt.net/numberManagement/v2/numberCollectionReactivation"      }  } |

### POST/numberCollectionBulkOrder

#### **Description**

GET/numberCollectionBulkOrder API allows you to send bulk requests for numberActivation, portIn & updateEndCustomerDetails APIs

***Please note: due to technical reasons, this API will be available in our next release (March 2024)***

## How to get access to new REST APIs & support

Please inform your account manager to request access to the sandbox and/or production environments for the REST APIs.

Your Client ID and Client Secret for production will be shared with you by Colt’s Reseller Support Voice team.

Support for sandbox testing will be provided by the API Support team and is a chargeable service. Please contact your account manager for further information.

# NL 088 numbers

We are automating the ability for you to port-in your own / your end-customers’ own 088 Nomadic Numbers in the Netherlands using our Port-in/out APIs and our NOD portal. 088 numbers give you and your end-customers full country coverage.

**Port-In/Out journey**

The porting journey for 088 numbers is similar to the existing journey for geographic numbers, with a few exceptions. To Port-In 088 numbers:-

* It is mandatory that you provide the **ACM document** in addition to the mandatory LOA document.
  + The ACM document must be provided in the ‘anySupplementaryDocumentFileName’ / ‘anySupplementaryDocumentContent’ fields
* LAC validation will not be applicable for orders with 088 numbers
* Address validation will be done
* ‘country’ field will only accept ‘NL’ as the value
* A combination of 088 numbers and other numbers with a different LAC in the same order will be rejected
* There is no change to the address fields or Directory Services update
* Number Deactivation of 088 numbers will be possible. Post cease, 088 numbers will move to ‘Returned’ status
* In this release Address Update and Number reactivation will not be supported for 088 numbers

**More changes for 088 numbers are targeted for the May 2024 release – these include:-**

* Introduction of Number Activation of new 088 numbers
* Update of Number Deactivation and address update processes

**Please note:**

1. The Porting Desk may receive a direct notice from the Regulator in the Netherlands (ACM/COIN) that 088 numbers under your account have been revoked. Colt NL porting desk will notify you of this revoke notification and inform you on the next steps to undertake and timelines.

In case of no response or adequate actions, Colt NL Porting Desk will deactivate the affected numbers in the local registry and on the Colt network as per regulatory obligations.

1. The above changes are **not code breaking changes** and are **optional** for you .

This will **not impact the existing processes for NL Geographic numbers and 085 nomadic** numbers.

# Numbers on Demand (NOD) and B2B API improvements

Below are 9 improvements targeted for release on 2nd Dec 2023. Updated XSDs and API OAS specifications can be found in the Appendix A: XSD and Appendix B: API specifications.

| Sr no | Functionality | Interface | Improvement Description | Country Scope | Code Breaking change for customer(Yes/No) |
| --- | --- | --- | --- | --- | --- |
| 1 | **Address Update** | NOD and B2B APIs | **Current behavior**: during address update for ES activated numbers, users can send a new CIF/NIF and this is not allowed from a regulatory perspective in Spain.  **New behavior**: System will fail the orders if new CIF/NIF for colt numbers is provided during address update (this will align with the existing implementation for address updates to ported-in numbers today) | Spain | Yes |
| 2 | **Port Out Accept / Reject** | NOD and B2B APIs | **Current behavior**: When a port-out request is received where the contract type is ‘Continuation’, the user can select any date within 120 calendardays (excluding public holidays) as the FPD date.  **New behavior**: When a port-out request is received where the contract type is ‘Continuation’, the user must **set the FPD date as today’s date** and not a future date  *Please check – this will be a code-breaking change for you if today you allow any future date to be entered as the FPD date for a port-out continuation order.* | Netherlands | Yes |
| 3 | **Rejection and error code management** | NOD and B2B APIs | We have cleaned up the rejection reason and business error list.  For more details please refer to ***Appendix C: Rejection and CFA reason list***  *Please check – this will be a code-breaking change for you if today you have configured/ hardcoded these codes and reasons.* | All | Yes |
| 4 | Port-In deactivation and Port-In reactivation | NOD and B2B APIs | **Current process:** when a port-in activated number is deactivated, it goes into Returned status.  **New process:** when a port-in activated number is deactivated, it will go into ‘Port-In Quarantined’ status. User will be able to perform reactivation on these numbers | Italy | No |
| 5 | **Port-in** | NOD and B2B APIs | **Current behavior**: Port-In of nomadic/UAN numbers is not allowed today in Zone B countries except Luxembourg.  **New behavior**: Port-In of nomadic/UAN numbers will be allowed in Zone B countries: Czech Republic, Finland, Poland, Slovakia & Romania.  Please note support from new nomadic numbers is targeted for release in 2024. | Zone B | No |
| 6 | **order List** | REST API | REST API: **GET/order**  **Behavior following Sept 2023 release** : list of orders via REST API can be fetched using parameters like created/last update date, type and status  **New behavior**: you can now search the list of orders with ‘customerReference’ field as well | All | No |
| 7 | **all REST APIs where CLI details is required** | REST APIs | **Current behavior**: REST APIs enforce a user to enter the startFullNumber and endFullNumber for a single CLI  **New behavior**: you can now pass ‘cli’ if you want to place an order for one single number.  *‘startFullNumber’ + ‘endFullNumber’ or ‘cli’ is required in the request*  Impacted APIs:   * numberCollection * numberCollectionReservation * numberCollectionReservationCancellation * numberCollectionActivation * numberCollectionPortIn * numberCollectionPortOrderUpdate * numberCollectionUpdateCustomerDetails * cliOrderHistory * numberCollectionDeactivation | All | No |

# ES regulatory changes

In June 2023 the Regulator in Spain (CNMC) issued a [consultation](https://eur01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.cnmc.es%2Fsites%2Fdefault%2Ffiles%2Feditor_contenidos%2FTelecomunicaciones%2FConsultas%2520p%25C3%25BAblicas%2F1_NUM-DTSA-3186-23-Subasignaciones.pdf&data=05%7C01%7CPenelope.Hickling%40colt.net%7Cfa9f2f1e96a3462090e208dba557a7e2%7Cb859cf7eff8a40bbbd0fda56e6dc0eb8%7C1%7C0%7C638285568112769401%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=vSzy8iRdP2i%2Fqw2iAUG6H0XX24xNv9jda5dvxBD1dWk%3D&reserved=0), in which they propose to remove the requirement for Colt to advise CNMC of every minimum range of 100 numbers sub-assigned to a reseller – in the case where the reseller is assigning these Colt numbers to third parties / end-customers.

In the consultation CNMC propose that Colt and the reseller sign a reseller notification as a one-off activity, which will allow the reseller to sub-assign Colt’s numbers to their end-customers with no limit on the volume of numbers.

This will align Spain with countries such as Portugal, it will remove an administrative step and ensure you can directly activate Colt numbers to your end-customers without delay.

We anticipate that the consultation will be approved in Q423 and an enforcement date will be given. We anticipate that we will not remove the related system functionality in our NOD portal and our APIs until our May 2024 release.

Once the new regulation is approved and up until our target release in May 2024, please select either “own use” or “shared resources” in the usage type field and this will enable you to reserve and/or directly activate Colt numbers in ranges of 1, 10, 100.

Please note this is not a code-breaking change because we will continue to support “assign to 3rd party” up until our target May 2024 release in case you wish to continue using the existing functionality.

We will share details of the notification template once we have confirmation that the consultation has been approved.

# Appendix A: XSD

The structure is updated in the XSD in these links: [link 1](https://344164.fs1.hubspotusercontent-na1.net/hubfs/344164/NH%20Release%20Notes%20December%202023/nhm_cbe_v3.19.xsd) and [link 2](https://344164.fs1.hubspotusercontent-na1.net/hubfs/344164/NH%20Release%20Notes%20December%202023/NumberHostingServices_v3.19.xsd)

# Appendix B: API specifications

## OAS Specification for NH APIs

Please click [here](https://344164.fs1.hubspotusercontent-na1.net/hubfs/344164/NH%20Release%20Notes%20December%202023/numberManagement_v2.0.7_31Aug2023.yaml) for the OAS Specification for Functional APIs

# Appendix C: Rejection and CFA reason list

Please click [here](https://344164.fs1.hubspotusercontent-na1.net/hubfs/344164/NH%20Release%20Notes%20December%202023/Rejection%20reason%20list%20customer.xlsx) for the updated rejection and CFA (Customer Feedback Awaited) reason list.

Please note: few codes are removed/added/moved from Rejected list to CFA list and vice versa. Please review it.