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| Colt Number Hosting  11th June 2022 Release Notes |

# Introduction

This document describes the Colt Number Hosting 11th June 2022 release.

The release will focus on:

* Improved regulatory compliance for Emergency database in **Belgium**
* Transformation of SOAP APIs to REST APIs
* Number on Demand & API improvements

In *Appendix C: Number Hosting Service matrix,* there’s a link to the draft Service Matrix which explains the changes in more detail.

**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 18th April 2022 to 6th May 2022. Please get in touch with [NumberHostingUATSupportTeam@COLT.NET](mailto:NumberHostingUATSupportTeam@COLT.NET) if you would like to participate in the UAT.

# Document change control

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| --- | --- |
| **Version** | **Change description** |
| V1 | 11th June 2022 Release notes |
| V2 | Updates:   * ‘Registered Name’ update in section ***Customer Management & Validation in Belgium*** * Updated API improvement table with details around version of Authorization API in section ***Numbers on Demand (NOD) and B2B API improvements*** * Added new list of allowed UK operators for port-In in section ***Numbers on Demand (NOD) and B2B API improvements*** * XSD, OAS Specification for Authorization and Service Matrix links updated in Appendix |

# Customer Management & Validation in Belgium

To ensure regulatory compliance in **Belgium**, important changes relating to end customer details and directory services will be implemented as follows:

* 7 new mandatory/optional fields will be introduced in Directory Services. Fields which are changing are marked as ‘**New**’ in the table below.
* Some validation of existing fields will be updated. Fields which are changing are marked ‘**Update**’ in the table below.
* Two fields are not required and are marked as ‘**Remove**’ in the table below

All changes are applicable in **Belgium** for number Activation, new Port-In & Address Update operations.

Updated XSDs and API OAS specifications are present in *Appendix A: XSD* and *Appendix B: API specifications* respectively.

The fields are described in the table below:

| Element | Description | Change | Current Type | Current Length | Updated Type | Updated Length | Customer Action |
| --- | --- | --- | --- | --- | --- | --- | --- |
| End Customer Details | | | | | | | |
| endCustomerLanguage | Existing field | **Update** | M | LOV | M | LOV | New Language added in LOV  Allowed values are in bold:  **NL**: Dutch  **FR**: French  **DE**: German  **EN**: English |
| registeredName | Existing field | **Remove** | O | L ≤ 120 | - | - | Field not required anymore |
| customerType | Permitted values:  1. Business  2. Residential | No change | M | LOV | - | - | - |
| Customer Type: Business | | | | | | | |
| endCustomerName | Existing field | No change | M | L ≤ 120 | - | - | - |
| SOAP: customerVATNumber  REST:  companyRegistrationNumber | Existing field | **Update** | O | L ≤ 14 | O | L ≤ 14 | **Pattern change**  Old allowed pattern: [0-9A-Za-z\-]\*  **New allowed pattern:** BE[0-9]{10,12}$  example: BE0123456789 |
| Customer Type: Residential | | | | | | | |
| firstName | If Customer Type is Residential then First and Last Name are Mandatory. | No change | M | L ≤ 60 | - | - | - |
| lastName | If Customer Type is Residential then First and Last Name are Mandatory. | No change | M | L ≤ 120 | - | - | - |
| End Customer Address | | | | | | | |
| premisesNumber | Existing field | No change | M | L ≤ 5 | - | - |  |
| streetName | Existing field | No change | M | L ≤ 60 | - | - |  |
| cityTown | Existing field | No change | M | L ≤ 60 | - | - |  |
| postalZipCode | Existing field | **Update** | M | 4 ≤ L ≤ 5 | M | L = 4 | Length is fixed |
| addressExtension | Existing field | **Update** | O | L ≤ 35 | O | L ≤ 40 | Length increased |
| addressID | Existing field | No change | O | L ≤ 20 | - | - |  |
| validateAddress | Existing field | **Remove** | O | LOV | - | - | Field not required |
| Directory Service Update Details (Mandatory) | | | | | | | |
| directoryListingOptions | Existing field | **Update** | M | LOV | M | LOV | Allowed values are in bold   1. **No consent** 2. **Full Address consent, no Reverse** 3. **Partial Address consent, no Reverse** 4. **Full Address consent, with Reverse** 5. **Partial Address consent, with Reverse** |
| listingLanguage | Official language of the listing address, or the preferred language in case of more than one official language for a location:  NL: Dutch  FR: French  DE: German  The value must correspond to the language used for fields Street name and locality name. | **New** | - | - | M | LOV | Allowed values are in bold  **NL**: Dutch  **FR**: French  **DE**: German |
| DSU address (address validation will happen on this address) | | | | | | | |
| premisesNumber | House Number + Houseletter without a space.  Ex:14A | **New** | - | - | M | L ≤ 5 |  |
| streetName | Street/Avenue Name | **New** | - | - | M | L ≤ 60 |  |
| cityTown | Suburb/Town | **New** | - | - | M | L ≤ 60 |  |
| postalZipCode | Postcode | **New** | - | - | M | L = 4 |  |
| addressExtension | AddressExtension | **New** | - | - | O | L ≤ 40 |  |
| addressID | address reference ID can be used instead of complete address | **New** | - | - | CM | L ≤ 20 | Either Address ID or above address fields needs to be entered |

# REST API transformation

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

This is further described in *OAS Specification for NH APIs* and *Appendix C: Number Hosting Service matrix.*

|  |  |
| --- | --- |
| SOAP API | REST API |
| portIn | POST/numberCollectionPortIn |
| transactionDataUpdate (portIn only) | POST/numberCollectionPortOrderUpdate |
| updatePortIn | POST/numberCollectionPortOrderUpdate |
| cancelPortIn | POST/numberCollectionPortOrderUpdate |
| updateEndCustomerAddress | POST/numberCollectionUpdateCustomerDetails |

Our Next Gen APIs:-

* Conform to the Industry standard REST-JSON APIs
* Align with TMF conventions
* Support OAuth2 based authentication and authorisation
* Support open API specifications (earlier swagger)
* Support flexible version management (from our next release)
* Offer a standard format for numbers, date-time, etc
* Optimize fields

Industry standard authentication and authorisation mechanism will be enabled:-

* Authentication API will be implemented
* **OAuth 2.0** access token (applicable for 30 mins only) with client\_credential grant type used to authenticate clients

## API Details

### Resource name for Authorisation API

/token

### Resource names for NH APIs

|  |  |
| --- | --- |
| Operation | Resource Name |
| address update | /numberCollectionUpdateCustomerDetails |
| port-In | /numberCollectionPortIn |
| cancel Port-In, update date, schedule porting, quick Note, modify Port, Activate PortIn | /numberCollectionPortOrderUpdate |

## 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.

Please note there is no change to your existing billing information (e.g. invoice, rated CDRs & non-usage files) which you find in Colt Online.

# Numbers on Demand (NOD) and B2B API improvements

Below are some improvements targeted for 11th June 2022. Updated XSDs and API OAS specifications are present in Appendix.

| Functionality | Interface | Improvement Description | Country Scope |
| --- | --- | --- | --- |
| addressID | SOAP and REST API | addressID enabled for UK and IT under DSU section from APIs only | UK and IT |
| Order Details | NOD, SOAP and REST API | Order details response will now reflect customerReference if entered by customer while submitting reservation, activation or portIn request. | All |
| mainBillingNumber (MBN) | NOD UI, SOAP & REST API | This field will now accept only E164 (+44XXXXXXX) number and the country code should match with requested CLI country code.  Applicable APIs: newPortin, transactionDataUpdate (action : Modify Port), getTransactionDetails  ***Please note:*** This is a breaking code change. User will not be allowed to submit the request if the validation is not fulfilled. | All except DE and NL |
| Porting contact details/ switch maintainer details | NOD UI, SOAP & REST API | Porting contact can submit their telephone number and mobile number in porting contact details section during New port-in, transactionDataUpdate will accept E164 format as well | All |
| Porting contact details/ SwitchMaintainerContactDetails | SOAP & REST API | The node is made optional now.  If not entered by customer, system will pick the details from reseller setup only for new port-in  For any child order updates- it will be fetched from original parent id  Impacted APIs: portIn and transactionDataUpdate/portOrderUpdate | All |
| Out of office hours porting window  New port-in or modify port | NOD UI | Customer will be charged automatically (NRC) for OOH porting window, at the time of porting activation. Charging will be done only when Port\_In Transaction is in ‘Completed’ status.  Same charges will also apply in case of a migration order.  Note on NOD UI will be displayed when OOH window is selected:  *You have selected an OOH Porting Window which is chargeable and is subject to the availability of an OOH engineer and the donor operator’s acceptance or rejection. Please refer to your pricing/rate card for OOH port charges and note that additional charges may also apply from the donor operator which will be communicated prior to the OOH port.* | BE, NL, ES and PT |
| Colt Porting desk can update the porting window as OOH based on discussion with customers | NA | For other countries, the porting desk can support OOH on weekdays porting based on customer request in a new portIn order.  Customer will be charged automatically (NRC) for OOH porting window, at the time of porting activation. Charging will be done only when Port\_In Transaction is in ‘Completed’ status.  Same charges will also apply in case of a migration order. | UK, FR, AT, IT, IE, SE, DK, CH |
| Onboarding new version of number management REST API | REST API | * v1 will be decommissioned and v2 needs to be consumed   current end point: <https://apimgd01.colt.net:8443/numberManagement/v1>  new end point: <https://apimgd01.colt.net:8443/numberManagement/v2>   * new APIs added (described in previous section) * Resource model updated * fields renaming- please refer to service matrix * renaming of cancel reservation REST API   Current: POST/numberCollectionCancellation  New: POST/numberCollectionReservationCancellation   * codeAPE is added under DSU. * Increased the size of additionalIinstructions to 2048 * Removed paperDirectories from directoryServiceDetails * Country in addressSchema has been changed to have country codes | All |
| Authorisation REST API | REST API | * v1 will be decommissioned and v2 needs to be consumed   current end point:  <https://apimgd01.colt.net:8443/oauth/v1>/token  new end point:  <https://apimgd01.colt.net:8443/oauth/v2/token>   * Reseller support “Contact” details has been added in OAS * Response parameter update of token API | All |
| UK current operator list refresh | All | * As per our Feb release, current operator field in UK will only going to accept values from the list. This list is getting refreshed and present in ***Appendix C: Allowed ‘Current Operator’ values in UK*** | UK |

# Appendix A: XSD

The structure is updated in the XSD in these links: [Link 1](https://344164.fs1.hubspotusercontent-na1.net/hubfs/344164/June%20Release%20Notes%20v2/NumberHostingServices_v3.12.xsd) and [Link 2](https://344164.fs1.hubspotusercontent-na1.net/hubfs/344164/June%20Release%20Notes%20v2/nhm_cbe_v3.12.xsd)

# Appendix B: API specifications

## OAS Specification for NH APIs

Please click [here](https://344164.fs1.hubspotusercontent-na1.net/hubfs/344164/numberManagement_v2.0.0_11March2022.yaml) for the OAS Specification for Functional APIs

## OAS Specification for Authorization

Please click [here](https://344164.fs1.hubspotusercontent-na1.net/hubfs/344164/June%20Release%20Notes%20v2/Authorisation_v.2.0.0_17March2022.yaml) for the OAS Specification for Authorization file

# Appendix C: Allowed ‘Current Operator’ values in UK

Please refer to below table for allowed current operators in UK for port-In.

*Please note: we have refreshed the entire list at our end and same is expected to be done at your end to avoid any failures.*

| Allowed current operators in UK |
| --- |
| BT - 001 |
| KCOM Group PLC - 005 |
| Vodafone - 013 |
| Buzz Networks Limited - 023 |
| Verizon - 025 |
| Affiniti (KCOM) - 029 |
| Orange Business - 030 |
| GAMMA - 031 |
| COLT - 040 |
| Redcentric Solutions Ltd - 055 |
| Pulsant (Scotland) Ltd - 061 |
| Daisy Communications Ltd - 078 |
| AQL Wholesale Ltd - 093 |
| Magrathea - 102 |
| Premier Voicemail Ltd - 108 |
| Virgin Media Ltd - 135 |
| iHub 2 Limited - 138 |
| Six Degrees Group -159 |
| CHESS Ltd - 171 |
| Inet (Voipfone) - 184 |
| HighSpeed Office Ltd - 207 |
| Commi Holdings Ltd - 208 |
| DRD Communications Limited - 217 |
| KCOM Group Limited - 223 |
| KDDI Europe Ltd - 253 |
| Nationwide Telephone Assistance - 256 |
| Resilient Plc - 275 |
| Daisy Communications Ltd - 306 |
| Timico Partner Services Ltd - 318 |
| Interoute Networks - 326 |
| Voiceflex Limited - 341 |
| Budget Numbers Ltd - 349 |
| Swiftnet Ltd - 354 |
| Spitfire - 356 |
| Excell Group PLC - 361 |
| VoIP-Un Limited - 367 |
| Digital Space Group Limited - 376 |
| Voxbone - 388 |
| London Central Communications Ltd - 436 |
| 8x8 UK Limited - 496 |
| Simwood - 498 |
| Mintaka Ltd - 506 |
| Vonage Ltd - 516 |
| VoiceHost Limited - 537 |
| Hyperoptic Ltd - 548 |
| Connaught Comms - 584 |
| Orbtalk Limited - 588 |
| Square Systems Ltd - 607 |
| Red Matter Limited - 615 |
| Metronet (UK) Limited - 690 |
| AVCOne Ltd - 695 |
| GCI Network Solutions Ltd - 711 |
| Firstcom Europe UK Limited - 747 |
| IP Wholesale Ltd (SKY/BSKYB) - 751 |
| Fido Telecom Ltd - 779 |
| Orbital Net Ltd - 783 |
| Lumen Technologies UK Limited - 804 |
| NFON UK Ltd - 819 |
| TalkTalk - 820 |
| Sky UK Limited - 822 |
| Virgin Media Ltd - 825 |
| Inclarity Communications Ltd - 840 |
| Belgacom - 846 |
| Wavecrest - 860 |
| Interoute Communications - 862 |
| Redcentric Solutions Ltd - 996 |
| Others |

# Appendix D: Number Hosting Service matrix

Please click [here](https://344164.fs1.hubspotusercontent-na1.net/hubfs/344164/June%20Release%20Notes%20v2/Colt_Voice_APIs_Service_Matrix_1.9.1.xlsx) to access the draft service matrix containing all new changes.