# Impact Analysis Report / RFC-Proposal

**Section 1: Meta-data**

|  |  |
| --- | --- |
| **RFC ID** | **RFC\_NCTS-P6\_0290 (JIRA: UCCNCTSP6-217)** |
| **Related Incident ID** | **N/A** |
| **RFC Initiator / Organization** | **DG TAXUD IT** |
| **CI** | **NCTS-P6 (DDNTA 6.3.0-v1.00-CSE-v60.4.4)** |
| **Type of Change** | **Standard  Emergency** |
| **Nature of Change** | Justification for Evolutive   |  | | --- | | DDNTA Main Document and Data Mapping File (DMP) modifications needed due to the change of the suffix from ‘D’ to ‘C’ in NCTS-P6 messages. | |
| **RFC Source** | |  |  | | --- | --- | | **Legal & Policy Change**  **Organisational Changes** | **Business Change**  **IT Change** | |
| **Review by Business User recommended?** | **Yes  No** |

***Change Summary***

|  |
| --- |
| **NCTS-P6 (DDNTA-6.3.0-v1.00): Updates of DDNTA Main Document and DMP due to the suffix change from ‘D’ to ‘C’.** |
| The DDNTA-6.3.0-v1.00 (Main Document) and the DMP-6.3.0-v1.00 shall be updated due to change of suffix. |

**Section 2: Problem statement**

|  |
| --- |
| In the current version of the **DDNTA-6.3.0-v1.00** **(Main Document)**, within the framework of the New Computerised Transit System Phase 6 (NCTS-P6), a comprehensive **update** should be implemented regarding the **suffix designation** (‘D’ replaced by ‘C’) for messages applicable to both **Opt-In** and **Opt-Out** NAs, as well as to traders. To streamline this process and enhance clarity in communication protocols, the following modifications have been proposed:   * **All National Administrations** (both Opt-In and Opt-Out) should utilize messages with the **suffix 'C'** in the **Common Domain** (CD), replacing the previous 'D' suffix. This change aims to simplify the overall transition process. * The **Opt-Out National Administrations** should keep using messages with the **suffix 'C'** in the **External Domain** (ED), not creating messages with the 'D' suffix. This adjustment is intended to offer minimal changes for NAs that already operate as Opt-Out under NCTS-P5 and wish to maintain their Opt-Out status in NCTS-P6. * The **Opt-In National Administrations**, on the other hand, should start NCTS-P6 operations having messages with the **suffix 'D'** in the **External Domain** (ED) and for the exchanges with the **Transit ENS Data Processing Bridge** (ieCA/TED). This guideline is set with the understanding that there may be **some minor exceptions**, although it is expected to have **no significant impact** on the functioning of ieCA/TED.   Furthermore, the NCTS-P5/NCTS-P6 Data Mapping Plan (DMP) and Common Transit System (CTS) packages, previously deemed essential, are now considered redundant and will no longer be provided.  In light of these major procedural modifications, it is suggested that Section IV of the NCTS-P6-DDNTA Main Document be retained. After revision, section IV should give a high-level overview and clearly state what modifications NCTS-P5 National Administrations must do in order to successfully move to NCTS-P6, depending on whether they have chosen to join as Opt-in or Opt-out. This update will ensure that the document remains relevant and useful for all NAs, facilitating a smoother migration to the NCTS-P6 framework and ensuring that all parties are adequately informed about the new system requirements and protocols.  Apart from the changes in DDNTA Main Document, the **DMP Package-6.3.0-v1.00,** containing the following two (2) excel files also needs to be modified:   1. SDEV-NCTS-P6\_DMP 6.3.0 (NCTS-P5 to P6 Data Mapping)-v1.00 2. SDEV-NCTS-P6\_DMP 6.3.0 (NCTS-P6 to ICS2 Data Mapping)-v1.00   The file ‘**DMP 6.3.0 (NCTS-P5 to P6 Data Mapping)**’ defines the data mapping per IE message for the common NCTS-P5 and NCTS-P6 messages. Moreover, it specifies:   * The data elements (Data Groups and Data Items) applicable to pertinent IE message of NCTS-P6; * Mapping to the relevant data elements (Data Groups and Data Items) of NCTS-P5; * Per data element information like multiplicity, optionality, format, applicable codelist, applicable R&Cs; * For each data mapping item, the resolution for Upgrade and Downgrade and whenever a BRT must be applied along with tracking information.   Since the messages exchanged between National Transit Applications (NTAs) over the Common Domain will use the ‘C’ suffix, there is no need for mapping/converting NCTS-P5 messages to NCTS-P6 messages (and vice versa). Therefore, the **‘DMP 6.3.0 (NCTS-P5 to P6 Data Mapping)’** file is obsolete and will be removed. |

**Section 3: Description of proposed solution**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| The **DMP-6.3.0-v1.00** will be modified as follows.   The file SDEV-NCTS-P6\_DMP 6.3.0 (NCTS-P5 to P6 Data Mapping)-v1.00.xlsx will be removed from DMP Package-6.3.0-v1.00.  **1.a** The below sections shall be updated due to Suffix Change:   * **I.I.3 Purpose of the DDNTA volume** * **I.I.4 Scope of DDNTA volume** * **I.I.6 Structure of DDNTA volume**  **I.III.1 Applicable documents****I.III.2 Reference documents**  * **I.III.4.3 Justified deviations from UCC Data Annex B** * **I.IV Key Decisions applied to Model the NCTS-P6 Messages** * **II.II Information Exchange Map** * **VIII.III.5 Suspension of sending messages** * **X.I The CCN communication reminder**   **1.b** **Appendix P** will be added to the sections labelled **‘List of Appendices’** and **‘Appendices for NCTS-P6’**, and **Appendices B, M** will be removed:  List of Appendices  Appendix A: Message Scope Appendix  ~~Appendix B: Transitional Analysis…………………………………………………………………………………………. Appendix~~  Appendix C: NCTS Codelists …..Appendix  Appendix D: History of Rules and Conditions……………………………………………………………………….…Appendix  Appendix J: NCTS Correlation Tables Appendix  Appendix K: Rules and Conditions Mapping Appendix  ~~Appendix M: Scenario Transition Analysis Output Appendix~~  Appendix N: State Machine Transition Analysis Output Appendix  **Appendix P: Messages Detailed Analytical View…………………………………………………………………Appendix**  Appendix Q2: Technical Message Structure Appendix  Appendix R: XML Mapping Appendix  Appendix X: XML Schemas Appendix  Appendix Y: Data Groups & Transaction Hierarchy Appendix  Appendix Z: Data Items Appendix  (…)  **APPENDICES FOR NCTS-P6**   * Appendix A defines the message scope for NCTS; * ~~Appendix B provides the approach followed carrying out the transitional analysis for NCTS;~~ * Appendix C contains a definition of all Code Lists used for NCTS-P6; * Appendix D depicts the historical revisions of all Rules and Conditions used for NCTS-P4, NCTS-P5, NCTS-P6, ECS-P2 and AES-P1; * Appendix J presents how the different Data Groups and Data Items are correlated to the messages; * Appendix K presented the mapping of Rules and Conditions; * ~~Appendix M defines the output of Scenarios Transition Analysis as per approach explained in Appendix B;~~ * Appendix N defines the output of State Machine Transition Analysis; * **Appendix P depicts all Data Elements and their respective data for all AES-P1, NCTS-P5 and NCTS-P6 messages;** * Appendix Q2 contains the definition of all messages for NCTS-P6; * Appendix R contains the XML mapping of all Data Items and Data Groups of the NCTS-P6 messages; * Appendix X contains the XML Schemas of the NCTS-P6 messages; * Appendix Y and Appendix Z contain a data dictionary for all elements (Data Items and Data Groups) used to construct these messages.   **1.c** The section **I.IV Key Decision to Model the NCTS-P6 Messages** will be updated as follows:  The RISK ANALYSIS will \*not\* point to the "HC identified + GI number", but directly to the Declaration goods item that is unique across the whole declaration (and from there, it is known in the NTA which HC is involved).  ~~The methodology applied to produce the Appendix Q2 of the DDNTA-6.2.0 (first baseline of the DDNTA P6) is the following:~~   * ~~The DDNTA-5.15.0 is modified to remove all BRTs (BRT-1 and BRT-2) and TRTs used during the NCTS-P5 Transitional Period;~~ * ~~The changes required for the NCTS-P6 are applied on this 'cleaned' baseline, first for the Opt-Out NAs;~~ * ~~The changes required for the NCTS-P6 are extended for the Opt-In countries (taking into account the new interface between NCTS-P6 and ICS2 CR via TED) with the minor addition of transitional measures (in the form of BRT-1) to enable the business continuity during the NCTS-P6 Transitional Period.~~   In the realm of the New Computerised Transit System (NCTS), the differentiation between Opt-In and Opt-Out countries is marked not only by their level of participation in the transit procedures but also by the distinct suffixes used in their communication protocols. **Opt-In countries**, which actively engage in the full spectrum of NCTS/ICS2 processes, use both **'C' and 'D' suffixes** in their communications. The 'C' suffix is typically associated with messages in the External/Common Domains, used for the exchange of general transit data and notifications and mainly exist in NCTS-P5 and are not involved with the communication with the ICS2-CR (via TED). This type of messages is used by both Opt-In and Opt-Out NAs. Other than a small exception (please see the first bullet below for the Opt-In NAs), the 'D' suffix messages are primarily used by Opt-In NAs for risk analysis purposes, involving combined transit declarations with ENS particulars.  In summary, Opt-In NAs will use:   * New Common and External Domain messages introduced in NCTS-P6 (used by both Opt-In and Opt-Out NAs) for the Office of Transit (having the suffix ‘D’ in NCTS-P6); * New Common and External Domain messages introduced in NCTS-P6 due to the interface with ICS2-CR via ieCA/TED (suffix ‘D’); * Common Domain Messages that existed in NCTS-P5 (having the suffix ‘C’ in NCTS-P6); * Several External Domain Messages that existed in NCTS-P5, but their suffix changed to ‘D’ in NCTS-P6 (due to the interface with ICS2-CR).   Conversely, **Opt-Out** countries do not participate in the integrated transit procedures of the NCTS with those procedures of ICS2-CR, predominantly use the 'C' suffix. The usage of this type of messages reflects the exclusion of ENS Particulars from the transit declaration data and thus the exclusion of the ENS data from all other supporting messages.  In summary, **Opt-Out NAs** will use:   * **New** Common and External Domain **messages** introduced in NCTS-P6 (used by both Opt-In and Opt-Out NAs) for the **Office of Transit** (suffix ‘D’); * **Common Domain Messages that existed** in NCTS-P5 (having the suffix ‘C’ in NCTS-P6); * All **External Domain Messages that existed** in NCTS-P5 (having the suffix ‘C’ in NCTS-P6).   **1.d** The Section **IV** **NCTS-P6 Transitional Scenarios** will be updated as follows:   * The section **IV.I Introduction** willbe updated as follows:   (…)  Two (2) key terms for this document are introduced: “NCTS-P5” and “NCTS-P6” situation during the Transitional Period to refer to the operational mode of a National Administration (please see *Scope during Transitional Period* in sub-section IV.III). ~~“NCTS-P6” must comply with the~~ *~~Common Domain Protocol Policy~~* ~~during the Transitional Period (please see section IV.V), so as to interoperate and exchange IEs with other NAs, which would be in “NCTS-P5” or in “NCTS-P6” operation mode.~~     * The section **IV.II.2 Not Implemented/supported functionality** will be updated as follows:   (…)  During the Transitional Period~~In particular~~, the *Business service not implemented (System Unavailability Type “N”)* shall be used for “specific” functionalities (if any) not yet implemented by a pertinent NA in the scope of the “NCTS-P6” phase. These functionalities cannot be any of functionalities/scenarios of the “NCTS-P6” phase, guarantying the business continuity as defined in sub-section IV.III.1. Finally, this unavailability must be declared before the start of operations and is valid until the end of the Transitional Period.  *NOTE: After the end of the Transitional Period, all NAs must be NCTS-P6 ready with the minimum requirements to operate in NCTS-P6. These* ***minimum requirements*** *are defined in sub-sections IV.III.1 & IV.III.2.2. Additionally,* ***all NAs (Opt-In and Opt-Out) will also ensure seamless coordination of entry and transit formalities across National NCTS, and National ICS2 applications.*** *In the framework of the ICS2, this aims to harmonize risk analysis, presentation, and control procedures, improving efficiency and preserving the security of the transit movements in the NCTS-P6. Up until the end of the Transitional Period, all NAs are obliged to implement this integration of the transit and entry formalities in their National Domain.*   * The section **IV.II.3 Identification of Recipient NA operational mode by Sender in “NCTS-P6’’** will be deleted. * The section **IV.III.1.1.3 Information Exchanges** **(Table 20)** will be updated to display the suffix ‘C’ or ‘D’ to the Common/External Domain messages used by the Mandatory Existing Processes (continuity). * The section **IV.III.3 NCTS-P6 Scenarios and Time Sequence Diagrams** will be updated as follows:   + The upgrade/downgrade of the Common Domain Messages (from NCTS-P5 to NCTS-P6 format and vice versa) will be deleted from all transitional business scenarios;   + The new transitional business scenario will be added to accommodate the case that an NA is NCTS-P6 ready (including the interface between National NCTS and National ICS2), but it still has not implemented the message CD119D. * The section **IV.IV.1 Data Mapping and Conversion of IEs** will be deleted. * The section **IV.IV.2 Technical Message Structure for NCTS-P6** will be updated as follows:   The Technical Message Structure for “NCTS-P6” phase is defined in IV.3 of DDCOM [A3]. Therefore, the *Business Structural Changes/Constraints* with the form of BRTs (Business Rules for Transition) have been added on top of applicable Rules and Conditions to facilitate the smooth transition with one implementation of “NCTS-P6” NA.  BRTs (category 1 (BRT-1) and category 2 (BRT-2)) derived from NCTS-P5 are applied based on certain timing conditions:   * A BRT-1 continues to enforce a relaxed validation of R/C after the end date of the TP of NCTS-P4/NCTS-P5 and is applicable for some messages that may be exchanged after the end date of the TP of NCTS-P4/NCTS-P5. (i.e. please refer below to the Table 28 for the explanation of ‘Decisive date’ and the related CD messages involved). So, BRT-1 is related with the movement lifecycle of an NCTS-P5 open movement after the end of the TP of the NCTS-P4/NCTS-P5; * A BRT-2 applies some UCC data requirements, defining the structure for transit movements accepted after the end date of the TP of NCTS-P4/NCTS-P5. A BRT-2 is applicable (validated) when Decisive date > end date of TP of NCTS-P4/NCTS-P5 (i.e. please refer below to the Table 28 for the explanation of ‘Decisive date’). For consistency purposes, the BRT-2 have ONLY been kept to the messages where the BRT-1 are still kept (please refer to the previous bullet).   BRTs (category 1 (BRT-1)) introduced in NCTS-P6 are applied based on certain timing conditions:   * A BRT-1 enforces a relaxed validation of R/C before the end date of the TP of NCTS-P5/NCTS-P6 and is applicable for the whole lifecycle of any movement opened during the Transitional Period. A BRT-1 is applicable (validated) only when Decisive date ≤ end of TP (i.e. please refer below to the ~~Table 28~~Table 29 for the explanation of ‘Decisive date’). Thus, BRT-1 is related with the movement lifecycle and is valid until the end date of the TP of NCTS-P5/NCTS-P6.   Figure 190 shows all classes of Rules and Conditions applicable in a Technical Message Structure of “NCTS-P6” phase as per DDCOM principles [A3].  Section IV.IV.2~~IV.IV.3~~ defines the decisive date for validating BRT-1s or BRT-2s per case.  Finally, Figure 190 shows that there is a sequence of validation. The logic of validation is defined in IV.6 of DDCOM [A3]. The same principles for the validation order apply for BRT-1s/BRT-2s that originate from NCTS-P5 and those introduced in NCTS-P6.~~Figure 191 shows how the Technical Message Structure is adapted based on the applicability of BRTs during Transitional Period and after Transition (final period).~~   * The section **IV.IV.3 Decisive date for BRT validation** will be updated as follows:   The following Table 28 and Table 29 define~~s~~ the decisive date and the timing conditions per case for validating BRTs originating from NCTS-P5 and those BRTs introduced in NCTS-P6 respectively.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Class of Rule** | **Related CD IEs** | **Related CD IEs** | **Decisive Date** | **Timing Condition for BRT Validation** | | BRT-1 | All IEs where BRT-1s are applicable | CD003C, CD018C, CD094C, CD095C, CD115C, CD142C and CD165C | Declaration acceptance date\*  (declarationAcceptanceDate) | Decisive Date ≤ end date of TP of NCTS-P4/NCTS-P5 | | BRT-2 | All IEs where BRT-2s are applicable | CD003C, CD094C, CD095C, CD115C and CD165C | Declaration acceptance date\*  (declarationAcceptanceDate) | Decisive Date ≤ end date of TP of NCTS-P4/NCTS-P5 |   Table 28: Decisive date for BRT validation derived from NCTS-P5  *\*NOTE:* Even though the DI 'Declaration acceptance date' is absent from the structure of some messages, it must be obtained from the relevant transit declaration message as the basis to decide whether or not to activate the corresponding BRT for the relevant message.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Class of Rule** | **Related CD IEs** | **Related ED/ND IEs** | **Decisive Date** | **Timing Condition for BRT Validation** | | **BRT-1** | All IEs where BRT-1s are applicable | IE013, IE015 | Reception date of IE by NCA  (system date and time) | Decisive Date ≤ end date of TP of NCTS-P5/NCTS-P6 |   **Table ~~28~~29: Decisive date for BRT validation introduced in NCTS-P6**   * The section **IV.IV.4 Codelist Analysis and Mapping between “NCTS-P5” and “NCTS-P6”** will be updated as follows:   The “NCTS-P6” codelists are used in the “NCTS-P6” message structures as defined in DDNTA Appendices of “NCTS-P6”.  A codelist mapping and codelist value mapping analysis performed between “NCTS-P5” and “NCTS-P6” only for the common codelists (defined in CS/RD2). This codelist analysis is important during the Transitional Period of NCTS-P5/NCTS-P6~~and is required for the proper IE conversion process~~. ~~The codelist analysis outcome for common codelists is defined in NCTS-DMP [R4].~~  For national Codelists or Codelists containing national values, it is the NA’s responsibility to perform such mapping. This activity is considered required in the context of transition in external domain.   * The section **IV.IV.5 R&Cs in NCTS-P5** will be deleted. * The section **IV.V Protocol for Common Domain exchanges during TP** will be deleted.   **2.** The **Appendix A** shall be modified due to Suffix Change to reflect the changes brought about by the alteration in suffix usage in all the relevant NCTS messages.  **3.** The **DMP-6.3.0-v1.00** will be modified as follows (addition of **text highlighted in yellow** – removal of ~~text with strikethrough~~):  File ~~‘SDEV-NCTS-P6\_DMP 6.3.0 (NCTS-P5 to P6 Data Mapping)-v1.00.xlsx’~~ will be removed from **DMP Package-6.3.0-v1.00**.  **NCTS-P6:**   * ~~SDEV-NCTS-P6\_DMP 6.3.0 (NCTS-P5 to P6 Data Mapping)-v1.00~~ * SDEV-NCTS-P6\_DMP-3.0.0-v1.01 (NCTS-P6 to ICS2 Data Mapping)-v1.00.xlsx   **IMPACT ASSESSMENT:**  This RFC-Proposal aims to facilitate the business continuity. It must be read together with the RFC-Proposals related to Appendix Q2 and others.  **Proposed** date of applicability in Operations (**T-Ops**):  Start of P6 operations (at earliest 01.03.2025, at latest 01.09.2025)  **Proposed** date of applicability in CT (**T-CT):**                    Start of CT campaign (provisionally on 01.12.2024)  **Expected** date of approval by ECCG (**T-CAB**):                 Together with DDNTA-6.4.0  **Risk in case of non-implementation:**   * See other RFC-Proposal for suffix changes.   **Impacted messages:**   * See other RFC-Proposal for suffix changes.   **Impacted Rules, Conditions & BRTs etc.:**   * See other RFC-Proposal for suffix changes.   **Impacted CI Artefacts:**   * **DDNTA-6.3.0-v1.00 (Main Document): Yes** * **NCTS-P6 DMP-6.3.0-v1.00 Package: Yes**   *Covered in related RFCs.*   * *DDNTA-6.3.0-v1.00 (Appendices A, B, M, N, P):* ***Yes*** * *CTP-6.2.0 v1.00:* ***Yes*** * *TRP-6.2.0-v1.01:* ***Yes*** * *DDCOM-21-3.0-v1.00:* ***Yes*** * *ieCA/TED 2.0.0.0:* ***Yes*** * Functional Specifications NCTS-P6 (FSS/BPM): 7.10.0: No * CSE-v60.4.4: No * ICS2-CR-CTS-1.1.0-v1.01: No * ICS2-CR-CRP-1.1.0-v1.00: No * CS/MIS2\_DATA: No. * CS/RD2\_DATA: No. * UCC IA/DA Annex B: No. |

**Impact on CI artefacts**

|  |  |  |
| --- | --- | --- |
| **DDNTA-6.3.0-v1.00**  **(Main Document)** | **Cosmetic  Low  Medium  High  Very High**  **Short description**   |  | | --- | | **Changes in the text of the DDNTA Main Document as described in section 3.** | |
| **DMP-6.3.0-v1.00 Package** | **Cosmetic  Low  Medium  High  Very High**  **Short description**   |  | | --- | | **The file ‘SDEV-NCTS-P6\_DMP 6.3.0 (NCTS-P5 to P6 Data Mapping)-v1.00.xlsx’ will be removed from the DMP Package as defined in section 3.** | |

**Estimated impact on National Project**

|  |  |
| --- | --- |
| None Cosmetic Low  Medium  High  Very High  Short description   |  | | --- | | Positive impact, reducing the effort to develop the NTA.P6 applications.  Variable if Opt-In or Opt-Out NAs.  See other RFC-Proposal for suffix changes, for a better view on the potential (positive) impact. | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Document History** | | | |
| **Version** | **Status** | **Date** | ***Comment*** |
| v0.10 | Draft by SOFTDEV | 10/05/2024 | *Draft by SOFTDEV* |
| v0.11 | Commented draft | 25/03/2024 | *Some major comments by DG TAXUD IT.* |
| v0.12 | Commented draft | 17/06/2024 | Comments by DG TAXUD IT (tds) with TC. Some comments resolved. |
| v0.13 | Commented draft | 17/06/2024 | Comments by DG TAXUD IT (tds) with TC. |
| v0.20 | SfR to DG TAXUD | 26/06/2024 | *Version implementing DG TAXUD’s comments* |
| v1.00 | SfA to DG TAXUD | 15/07/2024 | *Final version implementing DG TAXUD’s comments* |
| v1.10 | SfA to DG TAXUD | 25/07/2024 | *Extra updates due to DDNTA 6.4.0-v1.00 implementation* |
| v1.11 | SfA-NPM\_IMPL | 18/12/2024 | *Watermark and Document history (status) updated for info \_ Part of RFC-List.42 \_ Included in DDNTA-6.4.0-v2.00.* |