# Impact Analysis Report / RFC-Proposal

**Section 1: Meta-data**

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| **RFC ID** | **RFC\_NCTS\_0134** (RTC-54112) |
| **Related Incident ID** | IM441453 |
| **RFC Initiator / Organization** | TAXUD/B3, NA-PL |
| **CI** | **NCTS-P5 (DDNTA-v5.14.1 – CSE-v51.6.0)** |
| **Type of Change** | **Standard** **Emergency** |
| **Nature of Change** | Justification for Evolutive   |  | | --- | | Condition and BRTs (C0001, B1820, B1823) assigned on the various instances of Data Group CONSIGNEE in CD012C will be replaced in order to properly handle the absence of Data Item “CD012C.TRANSIT OPERATION.Security” in CD012C. | |
| **RFC Source** | |  |  | | --- | --- | | **Legal & Policy Change**  **Organisational Changes** | **Business Change**  **IT Change** | |
| **Review by Business User recommended?** | **Yes No** |

***Change Summary***

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| **NCTS-P5 (DDNTA-v5.14.1 - CSE-v51.6.0): Replace C0001, B1823, B1820 in CD012C with new Condition/BRTs in the forthcoming DDNTA release** |
| Currently, the IE012 message structure regarding the Data Group ‘CONSIGNEE’ is the following:  Part of IE012 message:  …  …  ---CONSIGNMENT 1x R  ------CONSIGNEE 1x D B1823 C0001 G0001  …  …  ------HOUSE CONSIGNMENT 999x R E1406  ---------CONSIGNEE 1x D C0001 E1301 G0001 G0062  …  …  ---------CONSIGNMENT ITEM 9999x R E1402  -------CONSIGNEE 1x O B1820 B2400 G0001  …  …  As per incident IM441453, raised by ITSM, during the ieCA exercise, IE012B message failed to be converted and it was rejected with a IE906A due to violation of C0001. The issue is related to the approach taken for condition C0001 in the context of the message CD012C.  In CD012C, the Data item ‘TRANSIT OPERATION. Security’ is not present in contrast to other common domain messages (e.g. CD001C) where the Data Item is part of the message structure.  As a result, in order to avoid rejections related to the absence of the Data Item ‘TRANSIT OPERATION. Security’ in IE012, Condition and BRTs (C0001, B1820, B1823) assigned on the various instances of Data Group ‘CONSIGNEE’ in CD012C will be replaced and removed in order to properly handle the optionality of ‘CONSIGNEE’ in the various instances of CD012C. |

**Section 2: Problem statement**

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| In the latest version of the CSE deliverable (NCTS-P5 DDNTA-v5.14.1 based on CSE-v51.6.0), the following updates shall be performed:  Currently, the message structure of CD012C- ‘ANTICIPATED ARRIVAL RECORD-TIR-  SPEED’ regarding the Data Group ‘CONSIGNEE’ is the following:  **Part of IE012 message:**  …  …  ---CONSIGNMENT 1x R  ------CONSIGNEE 1x D **B1823 C0001** G0001  …  …  ------ CONSIGNMENT 999x R E1406  ---------CONSIGNEE 1x D **C0001** E1301 G0001 G0062  …  …  ---------CONSIGNMENT ITEM 9999x R E1402  -------CONSIGNEE 1x O **B1820** B2400 G0001  …  …  As presented in the above structure, **Condition C0001** is assigned on ‘CONCIGNMENT. CONSIGNEE’ and ‘CONSIGNMENT- HOUSE CONSIGNMENT. CONSIGNEE’.  The current wording of **C0001** is the following:    Based on the aforementioned wording, the value of the Data item ‘TRANSIT OPERATION. Security’ is checked in order to define the optionality of DG ‘CONSIGNEE’ in CONSIGNMENT and HOUSE CONSIGNMENT level.  Though, the Data item ‘TRANSIT OPERATION. Security’ is not present in IE012 message, in contrast to other common domain messages (e.g. CD001C) where the Data Item is part of the message structure.  As a result, during the ieCA exercise, an issue was identified because IE012B messages failed to be converted and were rejected with a IE906A due to violation of C0001. The issue is related to the approach taken for condition C0001 in the context of the message CD012C.  In order to avoid rejections related to the CD012C and the presence of Data Group ‘CONSIGNEE’, Condition C0001 that is currently assigned on the various instances of Data Group ‘CONSIGNEE’ in CD012C will be replaced by a new Condition in order to properly handle the absence of Data Item “CD012C.TRANSIT OPERATION.Security” in CD012C.  More specifically, the new Condition will check the presence of ‘CONSIGNEE’ in CD001C to define in which level the ‘CONSIGNEE’ shall be reported in IE012.  The proposed numbering for the new Condition, based on DDCOM-v20.3.0 SfA in section “IV.4-Numbering Convention for Rules & Conditions (R/C/T/TRT/BRT/S/G) for NCTS-P5 and AES-P1”, will be **C0002**.  In addition, the BRTs **B1820** and **B1823** are presented in ‘Consignment’ and ‘Consignment Item’ level in IE012 in order to define the optionality of the Data Group ‘CONSIGNEE’ in these 2 instances.  ***Note:*** *The D.G. ‘Consignee’ in Consignment Item level is used only during the Transitional period due to B2400.*  The 2 BRTs check also the value of the Data item ‘TRANSIT OPERATION. Security’ as presented below:  **B1820:**    **B1823:**    Though, the Data item ‘TRANSIT OPERATION. Security’ is not present in IE012 message, in contrast to other common domain messages (e.g., CD001C) where the Data Item is part of the message structure.  As a result, in order to avoid rejections related to the CD012C and the presence of Data Group ‘CONSIGNEE’, **B1820** which is assigned on ‘CONSIGNMENT-HOUSE CONSIGNMENT-CONSIGNMENT ITEM. CONSIGNEE’ in IE012, will be replaced by a new BRT (for the Transitional Period) that will check the presence of ‘CONSIGNMENT-HOUSE CONSIGNMENT-CONSIGNMENT ITEM. CONSIGNEE’ in CD001C.  In addition, **B1823** that is assigned on ‘CONSIGNMENT. CONSIGNEE’ will be removed, and the optionality of ‘CONSIGNEE’ in this level will be defined via the new Condition C0002.  The proposed numbering for the new BRT *(that will be assigned on ‘CONSIGNMENT-HOUSE CONSIGNMENT-CONSIGNMENT ITEM. CONSIGNEE’ in IE012),* based on DDCOM-v20.3.0 SfA in section “IV.4-Numbering Convention for Rules & Conditions (R/C/T/TRT/BRT/S/G) for NCTS-P5 and AES-P1”, will be **B1902.** |

**Section 3: Description of proposed solution**

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| The **DDNTA-v5.14.1 (incl. Appendix Q2) and the CSE-v51.6.0** shall be corrected as follows (addition of **text highlighted in yellow** – removal of ~~text with strikethrough~~ ):  The message structure of IE012 regarding the Data Group ‘CONSIGNEE’ will be updated as follows:  **Part of IE012:**  …  …  CONSIGNMENT 1x R  ------CONSIGNEE 1x D ~~B1823 C0001~~ C0002 G0001  …  …  ------ HOUSE CONSIGNMENT 999x R E1406  ---------CONSIGNEE 1x D ~~C0001~~ C0002 E1301 G0001 G0062  …  …  ---------CONSIGNMENT ITEM 9999x R E1402  -------CONSIGNEE 1x O ~~B1820~~ B1902 B2400 G0001  …  The wording of new **C0002** will be:  **Technical Description:** IF /CD001C/Consignment/Consignee is PRESENT  THEN /CD012C/Consignment/Consignee = "R" AND /CD012C/Consignment/HouseConsignment/Consignee = "N"  ELSE IF /CD001C/Consignment/HouseConsignment/Consignee is PRESENT  THEN /CD012C/Consignment/HouseConsignment/Consignee = "R" AND /CD012C/Consignment/Consignee = "N"  ELSE /CD012C/Consignment/Consignee = "N” AND /CD012C/Consignment/HouseConsignment/Consignee = "N"  **Functional Description:**  IF <CD001C- CONSIGNMENT-CONSIGNEE> is PRESENT  THEN <CD012C- CONSIGNMENT-CONSIGNEE> = "R" AND <CD012C- CONSIGNMENT-HOUSE CONSIGNMENT -CONSIGNEE> = "N"  ELSE IF <CD001C- CONSIGNMENT-HOUSE CONSIGNMENT -CONSIGNEE> is PRESENT  THEN <CD012C- CONSIGNMENT-HOUSE CONSIGNMENT -CONSIGNEE> = "R" AND <CD012C- CONSIGNMENT-CONSIGNEE> = "N"  ELSE <CD012C- CONSIGNMENT-CONSIGNEE> = "N” AND <CD012C- CONSIGNMENT-HOUSE CONSIGNMENT -CONSIGNEE> = "N"  **C0002:**  Validated by Sender: R  Validated by Recipient: SR  The wording of new **B1902** will be:  **Technical Description:**  IF <Decisive Date> is LESS than or EQUAL to <TPendDate>  THEN  IF /CD001C/ Consignment/HouseConsignment/ConsignmentItem/Consignee is PRESENT  THEN /CD012C/ Consignment/HouseConsignment/ConsignmentItem/Consignee= "R" AND /CD012C/Consignment/Consignee= "N"  ELSE /CD012C/ Consignment/HouseConsignment/ConsignmentItem/Consignee= "N" AND /CD012C/Consignment/Consignee= "N"  **Functional Description:**  N/A  **B1902:**  Validated by Sender: R  Validated by Recipient: R  **IMPACT ASSESSMENT:**  This RFC proposal concerns changes at sematic level in Common Domain message CD0012C. It is considered that the change proposed via the current IAR has impact on business continuity and therefore shall be deployed in a **Big Bang approach**. More specifically:    **Changes at semantic level**  The changes at the semantic level, namely concern the removal of C0001 from IE012 message and the addition of the new C0002 and B1902 in the aforementioned message in the Data Group <CONSIGNEE>.    *With respect to the new C0002:*   * If the sender is aligned with the proposed changes (DDNTA 5.15.0), and the receiver is not aligned with the proposed changes (DDNTA 5.14.1), then no semantic rejection shall be caused, because the IE012 message will be correctly filled in, taking into consideration the presence of Consignee in IE001 (where the Data Group Transit Operation. Security is present); * If the sender is not aligned with the proposed changes (DDNTA 5.14.1), IE012 will not be built successfully, since in the DDNTA 5.14.1 the ‘TRANSIT OPERATION. Security’ is not present in IE012 message, in contrast to other common domain messages (e.g., CD001C) where the Data Item is part of the message structure.     *With respect to the new B1902:*   * If the sender is aligned with the proposed changes (DDNTA 5.15.0) while the receiver is not aligned with the proposed changes (DDNTA 5.14.1), then no semantic rejection shall be caused, because the IE012 message will be correctly filled in, taking into consideration the presence of Consignee in IE001; * If the sender is not aligned with the proposed changes (DDNTA 5.14.1) while the receiver is aligned with the proposed changes (DDNTA 5.15.0), then a semantic error shall be caused (IE906) due to violation of C0001. This is because in the DDNTA 5.14.1 the ‘TRANSIT OPERATION. Security’ is not present in IE012 message, in contrast to other common domain messages (e.g., CD001C) where the Data Item is part of the message structure.   **Movement initiated under the previous DDNTA (5.14.1) release which continues its flow under the new DDNTA (5.15.0) release (open movement):**   No issue is identified if a movement was initiated under the previous DDNTA (DDNTA 5.14.1) release and continues its flow under the new DDNTA (DDNTA 5.15.0) release (open movement).  More specifically, in case an NA is initially not aligned with the proposed changes, given the fact that no additional communication exist with SPEED 2 system after IE012 is sent upon the moment release, no impact in open movements is foreseen.    **Changes at syntactic level**  N/A    **Impact in case of no Implementation**  In case of not implementing this change, rejections can possibly occur in common domain messages due to the absence of Data item ‘TRANSIT OPERATION. Security’ in IE012 message, in contrast to other common domain messages (e.g. CD001C) where the Data Item is part of the message structure.  As a result, in the upgrade of IE012B message rejection will be occurred with IE906 due to violation of C0001, which includes the ‘TRANSIT OPERATION. Security’ in its wording.  ***Note:*** *Taking into consideration that no validation of Rules/Conditions is performed by the recipient of CD12C message (by SPEED 2) and given the fact that the probability to upgrade CD012B message to CD012C is low, the risk of not implementing this RFC-proposal is close to zero.*  **Proposed** date of applicability in Operations (**T-Ops**):   1.12.2022  **Proposed** date of applicability in CT (**T-CT**):                     July 2022  **Expected** date of approval by ECCG (**T-CAB**):                  January 2022  **Impact on transition**: Yes  **Risk of not implementing the change:** Yes    Impacted Messages:   * Common Domain Messages: CD012C     **Impacted Rules, Conditions & BRTs etc.:**  - C0001  - C0002  - B1820  - B1823  - B1902      Impacted CI Artefacts:   * **CSE-v51.6.0: Yes;** * **DDNTA-5.14.1-v1.00; (Appendix Q2\_R\_C, K, PDFs): Yes;** * **DMP Package-v5.6.0 SfA-v1.00: Yes(incl. update of file Rules and Conditions\_v0.43): Yes;** * **NCTS\_TRP-5.7.: Yes;** * **NCTS\_CTP-5.7.0-v1.00: Yes;** * **CRP-v5.5-v1.00: Yes;** * **ACS - v5.5.0 & ACS-Annex-NCTS: 5.5.0: Yes;** * CTS-5.6.1-v1.00: No; * ieCA 1.0.1.0: No; * CS/MIS2\_DATA: No; * CS/RD2\_DATA: No; * UCC IA/DA Annex B: No; * Functional Specifications (FSS/BPM): No; * DDNTA-5.14.1-v1.00 (Main Document): No; * DDCOM v20.3.0-v1.00: No; * AES-P1 and NCTS-P5 Long-Lived “Legacy” (L3) Movements Study v1.40: No. |

**Impact on CI artefacts**

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| **CSE-v51.6.0** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **As described in section 3** | |
| **DDNTA-v5.14.1 (Appendices)** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **Appendices generated by CSE + Appendix Q2, Q2\_R\_C, K** | |
| **DMP Package-v5.6.0 SfA-v1.00** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **NCTS- Data Mapping- v0.43 file on conversion resolution fields. || Rules and Conditions\_v0.43 file to be updated** | |
| **TRP- 5.7.5** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **Impact in Drools due to changes in messages Conditions and BRTs. Alignment of messages according to the updates of specifications.** | |
| **CTP-5.7.0-v1.00** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **Alignment of scenarios according to the updates of specifications.** | |

**Estimated impact on National Project**

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|  | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | |  | |

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| **Document History** | | |  |
| **Version** | **Status** | **Date** | ***Comment*** |
| v0.10 | Draft by CUSTDEV | 03/11/2021 | *Draft by CUSTDEV* |
| v0.11 | Updates by CUSTDEV | 15/12/2021 | *Version Update* |
| v1.00 | SfA to NPMs | 25/02/2022 | SfA to NPMs |