# Impact Analysis Report / RFC-Proposal

**Section 1: Meta-data**

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| **RFC ID** | **RFC\_NCTS\_0122** (RTC-51543) |
| **Related Incident ID** | IM421726 |
| **RFC Initiator / Organization** | NA-NO |
| **CI** | **NCTS-P5 (DDNTA-v5.14.1 – CSE-v51.6.0)** |
| **Type of Change** | **Standard** **Emergency** |
| **Nature of Change** | Justification for Evolutive   |  | | --- | | Replace R0021 with a new guideline in document related "Reference numbers" that is applied. In addition, xsd pattern will be used in Data Elements where the value '0' is not valid business wise but technically can be used. | |
| **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): Updates regarding R0021** |
| R0021 is applied to ‘alphanumeric’ and ‘numerical’ data elements and it just indicates that a zero ‘0’ value is valid for the data elements that is applied to. However, it was identified that the rule cannot be violated and it was decided that it will be removed across all IEs. |
| This RFC proposal shall be read together with ‘RFC\_NCTS\_0169\_CUSTDEV3-RFC-IAR-RTC58676’ |

**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), **Rule R0021** was inherited from the respective R021 in NCTS.P4 and is applied to numerous ‘alphanumeric’ and ‘numerical’ data elements both in common and external domain messages. The rule indicates that the data elements where the rule is attached can take the zero ‘0’ value.  However, it was identified that the rule is not possible to be violated and therefore it should be removed horizontally from all data elements the rule is attached. The wording of R0021 is presented below:    In addition, the **Rule R0448** is currently assigned on <MESSAGE / CONSIGNMENT / TRANSPORT EQUIPMENT.Number of seals> and <MESSAGE / CONSIGNMENT / INCIDENT / TRANSPORT EQUIPMENT.Number of seals> in several messages, and will be updated since R0021 is mentioned to its wording as presented below:    **Analysis regarding the Numerical Fields:**  An extensive analysis was carried out in order to define whether the zero ‘0’ value should be acceptable or not. From this analysis, the numerical data items where specific rules (e.g. R0987) or codelists are applied to and define if ‘0’ value is valid or not, were excluded.  For the rest numerical data items, the following four categories were identified:   1. Numerical integer data items that ‘0’ value is valid; 2. Numerical integer data items that ‘0’ value is not valid; 3. Numerical decimal data items that ‘0’ value is valid; 4. Numerical decimal data items that ‘0’ value is not valid.   The data items were categorised to the above groups based on the following parameters:   * The level each numerical data item is placed (Consignment/House Consignment/Consignment Item, etc.); * The message each numerical data item is used.   Taking into consideration the above analysis, four xsd pattern types will be applied to the ‘numerical’ fields in order to allow or not the value ‘0’ (zero), as presented below:  1. Numerical data items that take integer values, where no Rule/Codelist is applied and the value ‘0’ (zero) is allowed;  2. Numerical data items that take integer values, where no Rule/Codelist is applied and the value ‘0’ (zero) is NOT allowed;  3. Numerical data items that take decimal values, where no Rule/Codelist is applied and the value ‘0’ (zero) is allowed;  4. Numerical data items that take decimal values, where no Rule/Codelist is applied and the value ‘0’ (zero) is NOT allowed.  For numeric Data Elements, R0021 will be replaced by a new Guideline to define whether the value ‘0’ shall be used in these fields. The proposed numbering for these Guideline will be **G0021**, based on DDCOM v20.3.0-v1.00 in section “IV.4-Numbering Convention for Rules & Conditions (R/C/T/TRT/BRT/S/G) for NCTS-P5 and AES-P1”.  **Analysis regarding the Alphanumerical Fields:**  Additionally, R0021 is also attached to alphanumeric data items and more specifically to the “Reference number” of the following document related data groups:   * TRANSPORT DOCUMENT.Reference number * ADDITIONAL REFERENCE.Reference number * PREVIOUS DOCUMENT.Reference number * SUPPORTING DOCUMENT.Reference number,   in Consignment, House Consignment and Consignment Item level.  The aforementioned Data Items, can take the value "0" (zero) in the following cases:  a. a document number is missing (it shall not be filled in with a dummy number)  b. the length of a document number exceeds the allowed 70 characters (it is preferable not to truncate the document reference number).  In these alphanumeric Data Elements, R0021 will be replaced by a new Guideline to define whether the value ‘0’ shall be used in these fields. By applying this new Guideline, the traders will have the flexibility to submit the declaration if any not-ordinary case happens in the attached documents.  The proposed numbering for these Guideline will be **G0321**, based on DDCOM v20.3.0-v1.00 in section “IV.4-Numbering Convention for Rules & Conditions (R/C/T/TRT/BRT/S/G) for NCTS-P5 and AES-P1”.  The aforementioned analysis was performed by CUST-DEV3 and can be found in the embedded file:    ***Note:*** *The present proposed change needs to be considered together with the change proposed via* *IAR-60055 of RFC list .36 (where the Declaration goods item number and the Document line item number format will be modified from n…5 to n…4).*  Treatment of numerical (non decimal fields)  Following the above attached file, new simple types should be introduced on XSD level, for the non-decimal numerical fields, which according to the current implementation they can be filled with value ‘0’, however business wise this value is not applicable. These are the following:   |  |  |  | | --- | --- | --- | | Data Item | Format | simpleType | | ContinueUnloading | n1 | ContinueUnloadingContentType | | DeclarationGoodsItemNumber | n..5 | DeclarationGoodsItemNumberContentType | | DocumentLineItemNumber | n..5 | DocumentLineItemNumberContentType | | GoodsItemNumber | n..5[[1]](#footnote-1) | GoodsItemNumberContentType | | NumberOfPackages | n..8 | NumberOfPackagesContentType | | ExposureCounter | n..8 | ExposureCounterContentType | | PercentageOfReferenceAmount | n..3 | PercentageOfReferenceAmountContentType |   Table : NCTS Non Decimal elements   |  |  |  | | --- | --- | --- | | SimpleType | Format | Description | | NumericWithoutZero\_1 | n1 | Simple type that should be applied on non-decimal types with format n1 and with pattern that will not allow value ‘0’ | | NumericWithoutZero\_3 | n..3 | Simple type that should be applied on non-decimal types with format n..3 and with pattern that will not allow value ‘0’ | | NumericWithoutZero\_5 | n..5 | Simple type that should be applied on non-decimal types with format n..5 and with pattern that will not allow value ‘0’ | | NumericWithoutZero\_8 | n..8 | Simple type that should be applied on non-decimal types with format n..8 and with pattern that will not allow value ‘0’ | | NumericWithZero\_3 | n..3 | Simple type that should be applied on non-decimal types with format n..3 and with pattern that will allow value ‘0’ | | NumericWithZero\_4 | n..4 | Simple type that should be applied on non-decimal types with format n..4 and with pattern that will allow value ‘0’ | | NumericWithZero\_8 | n..8 | Simple type that should be applied on non-decimal types with format n..8 and with pattern that will allow value ‘0’ | | NumericWithZero\_9 | n..9 | Simple type that should be applied on non-decimal types with format n..9 and with pattern that will allow value ‘0’ |   Table : NCTS new simple types with description  Treatment of decimal fields  The treatment of decimal fields and the introduction of respective XSD patterns, is part of RfC-58676. |

**Section 3: Description of proposed solution**

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| The **DDNTA-v5.14.1 - CSE-v51.6.0 (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~~ ):  **Solution for BOTH Numerical and Alphanumeric fields:**  1/ **Rule R0021** will be replaced across all IEs from both ‘alphanumeric’ and ‘numerical’ fields.  **Solution regarding the Numerical Fields:**  1/ **Rule R0021** will be replaced with G0021 in Numerical Data items.  The wording of G0021 will be the following:  **G0021:**  The value '0' (zero) is a valid number in this Data Item, as per applicable XSD pattern.  **Appendix K will include the following values for G0021:**  Validated by Sender: ‘-’  Validated by Recipient: ‘-’  Additionally, G0021 will be introduced to the following Data items, where zero is a valid number:   * CC037C- GUARANTEE REFERENCE - EXPOSURE.Exposure * CC037C- GUARANTEE REFERENCE - EXPOSURE.Balance * CC037C- GUARANTEE REFERENCE – COMPREHENSIVE GUARANTEE.Reference amount * CC037C- GUARANTEE REFERENCE – COMPREHENSIVE GUARANTEE.Guarantee amount * CC037C- GUARANTEE REFERENCE – COMPREHENSIVE GUARANTEE.Number of certificates * CC037C- GUARANTEE REFERENCE - INDIVIDUAL GUARANTEE BY GUARANTOR.Guarantee amount * CC037C- GUARANTEE REFERENCE - INDIVIDUAL GUARANTEE VOUCHER.Voucher amount * CD018C <CONSIGNMENT-HOUSE CONSIGNMENT-CONSIGNMENT ITEM-PACKAGING.Number of   packages>   * CC017C <CONSIGNMENT-HOUSE CONSIGNMENT-CONSIGNMENT ITEM-PACKAGING.Number of   packages>   * CC044C <CONSIGNMENT-HOUSE CONSIGNMENT-CONSIGNMENT ITEM-PACKAGING.Number of   packages>  G0139 will be added in CC017C, CD018C, CC044C in <CONSIGNMENT-HOUSE CONSIGNMENT-CONSIGNMENT ITEM-PACKAGING.Number of packages> with the following wording:  The ‘0’ (zero) value should only be used in cases where the customs officer identifies that two or more goods items are packaged together but this was not declared correctly at first instance.  **Appendix K will include the following values for G0139:**  Validated by Sender: ‘-’  Validated by Recipient: ‘-’  **2/ R0448** shall be reworded as follows:  Technical Description:  IF /\*/Consignment/TransportEquipment/containerIdentificationNumber is NOT PRESENT  THEN ~~the R0021 is not applicable (i.e.~~ the value '0' (zero) is not valid~~)~~ for  /\*/Consignment/TransportEquipment/numberOfSeals;  IF /\*/Consignment/Incident/TransportEquipment/containerIdentificationNumber is NOT PRESENT  THEN ~~the R0021 is not applicable (i.e.~~ the value '0' (zero) is not valid~~)~~ for  /\*/Consignment/Incident/TransportEquipment/numberOfSeals  Functional Description:  IF <CONSIGNMENT-TRANSPORT EQUIPMENT.Container identification number> is NOT PRESENT  THEN ~~the R0021 is not applicable (i.e.~~ the value '0' (zero) is not valid~~)~~ for <CONSIGNMENT-TRANSPORT  EQUIPMENT.Number of seals>;  IF <CONSIGNMENT-INCIDENT-TRANSPORT EQUIPMENT.Container identification number> is NOT  PRESENT  THEN ~~the R0021 is not applicable (i.e.~~ the value '0'(zero) is not valid~~)~~ for <CONSIGNMENT-INCIDENT-  TRANSPORT EQUIPMENT.Number of seals>  3/ In addition, the following four (4) xsd pattern types will be applied to the ‘numerical’ fields as presented in the embedded Excel spreadsheet:  a. Numerical data items, based on <xs:token> base type, where no Rule/Codelist is applied and ‘0’ value is allowed;  b. Numerical data items, based on <xs:token> base type, where no Rule/Codelist is applied and ‘0’ value is NOT allowed;  c. Numerical data items, based on <xs:decimal> base type, where no Rule is applied and ‘0’ value is allowed;  d. Numerical data items, based on <xs:decimal> base type, where no Rule is applied and ‘0’ value is NOT allowed.  More specifically, the next release of **DDNTA specifications** is going to be updated with the addition of the following xsd patterns for the ‘numerical’ non-decimal data items:  <xs:simpleType name="NumericWithoutZero\_1">  <xs:restriction base="xs:integer">  <xs:minInclusive value="1"/>  <xs:maxInclusive value="9" />  <xs:pattern value="[1-9]" />  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="NumericWithoutZero\_3">  <xs:restriction base="xs:integer">  <xs:minInclusive value="1"/>  <xs:maxInclusive value="999" />  <xs:pattern value="[1-9][0-9]{0,2}" />  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="NumericWithoutZero\_5">  <xs:restriction base="xs:integer">  <xs:minInclusive value="1"/>  <xs:maxInclusive value="9999" />  <xs:pattern value="[1-9][0-9]{0,4}" />  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="NumericWithoutZero\_8">  <xs:restriction base="xs:integer">  <xs:minInclusive value="1"/>  <xs:maxInclusive value="99999999" />  <xs:pattern value="[1-9][0-9]{0,7}" />  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="DeclarationGoodsItemNumberType"> <xs:restriction base="xs:integer"> <xs:minInclusive value="1" /> <xs:maxInclusive value="1999" /> <xs:pattern value="[1-9][0-9]{0,2}|[1][0-9]{3}" /> </xs:restriction> </xs:simpleType>  <xs:simpleType name="DeclarationGoodsItemNumberType\_WithZero"> <xs:restriction base="xs:integer"> <xs:minInclusive value="0" /> <xs:maxInclusive value="1999" /> <xs:pattern value="[1-9][0-9]{0,2}|[1][0-9]{3}|0" /> </xs:restriction> </xs:simpleType>  <xs:simpleType name="NumericWithZero\_3">  <xs:restriction base="xs:integer">  <xs:minInclusive value="0"/>  <xs:maxInclusive value="999" />  <xs:pattern value="[0-9]{1,3}" />  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="NumericWithZero\_4">  <xs:restriction base="xs:integer">  <xs:minInclusive value="0"/>  <xs:maxInclusive value="9999" />  <xs:pattern value="[0-9]{1,4}" />  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="NumericWithZero\_8">  <xs:restriction base="xs:integer">  <xs:minInclusive value="0"/>  <xs:maxInclusive value="99999999" />  <xs:pattern value="[0-9]{1,8}" />  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="NumericWithZero\_9">  <xs:restriction base="xs:integer">  <xs:minInclusive value="0"/>  <xs:maxInclusive value="999999999" />  <xs:pattern value="[0-9]{1,9}" />  </xs:restriction>  </xs:simpleType>  *The analysis of the* ***decimal fields*** *and the introduction of the respective XSD patterns, is part of RfC-*58676*.*  Additionally, given that the applicability of the simple types (both for the decimal and non-decimal data fields) may vary per message and data item, please find attached an Excel (.xlsx) file containing a detailed table with the affected entities and the xsd pattern types and simple types are applied to them:    **Solution regarding the Alphanumerical Fields:**  4/ **Rule R0021** will be replaced with a new Guideline (G0321), that will be applied in following Alphanumerical Data Items:   * TRANSPORT DOCUMENT.Reference number * ADDITIONAL REFERENCE.Reference number * PREVIOUS DOCUMENT.Reference number * SUPPORTING DOCUMENT.Reference number   in Consignment, House Consignment and Consignment Item level, as presented below:    The wording of the new Guideline will be:  **G0321:**  **Technical Description:**  N/A  **Functional Description:**  This Data Item can take the value ~~"~~’0’~~"~~ (zero) in the following cases:  a. a document number is missing (i.e. it shall not be filled in with a dummy number);  b. the length of a document number exceeds the allowed 70 characters (i.e. it shall not be truncated).  A missing document reference number (due to the above or any other case) is not a valid reason for the rejection of this message.  **Appendix K will include the following values for G0321:**  Validated by Sender: ‘-’  Validated by Recipient: ‘-’  Part of **CD001C** message:  ---CONSIGNMENT  …  …  ------PLACE OF UNLOADING 1x D S1011 B1854 C0191 C0812  ------PREVIOUS DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL214 G0057 R0020  Reference number R an..70 ~~R0021~~ G0321  Complement of information O an..35  ------SUPPORTING DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL213 G0057  Reference number R an..70 ~~R0021~~ G0321  Document line item number O n..5  Complement of information O an..35  ------TRANSPORT DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL754 G0057  Reference number R an..70 E1104 ~~R0021~~ G0321  ------ADDITIONAL REFERENCE  Sequence number R n..5 R0987  Type R an4 CL380 G0057  Reference number O an..70 ~~R0021~~ G0321  …  …  ------HOUSE CONSIGNMENT  …  …  ---------DEPARTURE TRANSPORT MEANS 999x D C0333 C0339 E1301  G0062 R0855  ---------PREVIOUS DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL228  Reference number R an..70 R0416  Complement of information O an..35  ---------SUPPORTING DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL213 G0057  Reference number R an..70 ~~R0021~~ G0321  Document line item number O n..5  Complement of information O an..35  ---------TRANSPORT DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL754 G0057  Reference number R an..70 ~~R0021~~ G0321  ---------ADDITIONAL REFERENCE  Sequence number R n..5 R0987  Type R an4 CL380 G0057  Reference number O an..70 ~~R0021~~ G0321  …  …  ---------CONSIGNMENT ITEM  …  …  ---------------GOODS MEASURE 1x O B1827 B2101  ------------PACKAGING 99x R  ------------PREVIOUS DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL214 G0057 R0020  Reference number R an..70 E1104 ~~R0021~~ G0321  Goods item number O n..5  Complement of information O an..35 E1117  ------------SUPPORTING DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL213 G0057  Reference number R an..70 E1104 ~~R0021~~ G0321  Document line item number O n..5  Complement of information O an..35 E1117  ------------ADDITIONAL REFERENCE  Sequence number R n..5 R0987  Type R an4 CL380 G0057  Reference number O an..70 E1104 ~~R0021~~ G0321  …  …  Same approach to CD003C, CD012C, CC013C, CC015C, CC029C, CD038C, CD050C, CD115C, CD160C and CD165C messages.  The message structure of **CC017C and CD018C** will be updated as follows;  Part of **CC017C** message:  …  ---CONSIGNMENT  …  …  ------PLACE OF UNLOADING 1x D C0191  ------PREVIOUS DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL214 G0057 R0020  Reference number R an..70 ~~R0021~~ G0321  Complement of information O an..35  Complete control R n1 CL027  ------SUPPORTING DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL213 G0057 G0360  Reference number O an..70 G0360 G0321  Complement of information O an..35 G0360  Complete control R n1 CL027  ------TRANSPORT DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL754 G0057 G0360  Reference number O an..70 G0360 ~~R0021~~ G0321  ------ADDITIONAL REFERENCE  Sequence number R n..5 R0054  Type O an4 CL380 G0057 G0360  Reference number O an..70 G0360 ~~R0021~~ G0321  …  …  ------HOUSE CONSIGNMENT  …  …  ---------DEPARTURE TRANSPORT MEANS 999x O G0360  ---------PREVIOUS DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL228 G0360  Reference number R an..70 R0416  Complement of information O an..35  ---------SUPPORTING DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL213 G0057 G0360  Reference number O an..70 G0360 G0321  Complement of information O an..35 G0360  Complete control R n1 CL027  ---------TRANSPORT DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL754 G0057 G0360  Reference number O an..70 G0360 ~~R0021~~ G0321  ---------ADDITIONAL REFERENCE  Sequence number R n..5 R0054  Type O an4 CL380 G0057 G0360  Reference number O an..70 G0360 ~~R0021~~ G0321  …  …  ---------CONSIGNMENT ITEM  …  …  ------------PACKAGING 99x O G0360  ------------PREVIOUS DOCUMENT  Sequence number R n..5 R0987  Type O an4 CL214 G0057 R0020  Reference number R an..70 ~~R0021~~ G0321  Goods item number O n..5  Complement of information O an..35  Complete control R n1 CL027  ------------SUPPORTING DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL213 G0057 G0360  Reference number O an..70 G0360 G0321  Complement of information O an..35 G0360  Complete control R n1 CL027  ------------TRANSPORT DOCUMENT  Sequence number R n..5 R0054  Type R an4 CL754 G0057 G0360  Reference number R an..70 G0360[[2]](#footnote-2) G0321  ------------ADDITIONAL REFERENCE  Sequence number R n..5 R0054  Type O an4 CL380 G0057 G0360  Reference number O an..70 G0360 ~~R0021~~ G0321  …  …  Part of **CD018C** message:  …  ---CONSIGNMENT  …  ------COUNTRY OF ROUTING OF CONSIGNMENT 99x O G0360  ------SUPPORTING DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL213 G0057 G0360  Reference number O an..70 B1202 G0360 G0321  Complement of information O an..35 G0360  ------TRANSPORT DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL754 G0057 G0360  Reference number O an..70 B1202 G0360 ~~R0021~~ G0321  ------ADDITIONAL REFERENCE  Sequence number R n..5 R0054  Type O an4 CL380 G0057 G0360  Reference number O an..70 B1202 G0360 ~~R0021~~ G0321  …  …  ------HOUSE CONSIGNMENT  …  …  ---------DEPARTURE TRANSPORT MEANS 999x O E1301 G0360  ---------SUPPORTING DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL213 G0057 G0360  Reference number O an..70 B1202 G0360 G0321  Complement of information O an..35 G0360  ---------TRANSPORT DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL754 G0057 G0360  Reference number O an..70 B1202 G0360 ~~R0021~~ G0321  ---------ADDITIONAL REFERENCE  Sequence number R n..5 R0054  Type O an4 CL380 G0057 G0360  Reference number O an..70 B1202 G0360 ~~R0021~~ G0321  …  …  ---------CONSIGNMENT ITEM  …  …  ------------PACKAGING 99x O G0360  ------------SUPPORTING DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL213 G0057 G0360  Reference number O an..70 B1202 G0360 G0321  Complement of information O an..35 E1117 G0360  ------------TRANSPORT DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL754 G0057 G0360  Reference number O an..70 B1202 G0360 ~~R0021~~ G0321  ------------ADDITIONAL REFERENCE  Sequence number R n..5 R0054  Type O an4 CL380 G0057 G0360  Reference number O an..70 B1202 G0360 ~~R0021~~ G0321  ...  …  Furthermore, the message structure of **CC043C, CC044C and CC190C** shall be updated as follows:    Part of **CC043C** message:  …  ---CONSIGNMENT  …  ------DEPARTURE TRANSPORT MEANS 999x D C0339 R0855  ------ PREVIOUS DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL214 G0057 R0020  Reference number R an..70 G0321  Complement of information O an..35 [[3]](#footnote-3)  ------SUPPORTING DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL213 G0057  Reference number R an..70 ~~R0021~~ G0321  Complement of information O an..35  ------TRANSPORT DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL754 G0057  Reference R an..70 ~~R0021~~ G0321  ------ADDITIONAL REFERENCE  Sequence number R n..5 R0987  Type R an4 CL380 G0057  Reference number O an..70 ~~R0021~~ G0321  …  …  ------HOUSE CONSIGNMENT  …  …  ---------DEPARTURE TRANSPORT MEANS 999x D C0339 R0855  ---------PREVIOUS DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL228  Reference number R an..70 R0416  Complement of information O an..35  ---------SUPPORTING DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL213 G0057  Reference number R an..70 ~~R0021~~ G0321  Complement of information O an..35  ---------TRANSPORT DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL754 G0057  Reference number R an..70 ~~R0021~~ G0321  ---------ADDITIONAL REFERENCE  Sequence number R n..5 R0987  Type R an4 CL380 G0057  Reference number O an..70 ~~R0021~~ G0321  …  …  ---------CONSIGNMENT ITEM  …  …  ------------PACKAGING 99x R  ------------ PREVIOUS DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL214 G0057 R0020  Reference number R an..70 G0321  Goods item number  O n..5[[4]](#footnote-4)  Complement of information O an..35  ------------SUPPORTING DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL213 G0057  Reference number R an..70 ~~R0021~~ G0321  Complement of information O an..35  ---------TRANSPORT DOCUMENT  Sequence number R n..5 R0987  Type R an4 CL754 G0057  Reference number R an..70 G0321[[5]](#footnote-5)  ------------ADDITIONAL REFERENCE  Sequence number R n..5 R0987  Type R an4 CL380 G0057  Reference number O an..70 ~~R0021~~ G0321  …  …  Part of **CC044C** message:  …  ---CONSIGNMENT  …  ------DEPARTURE TRANSPORT MEANS 999x O G0360  ------SUPPORTING DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL213 G0057 G0360  Reference number O an..70 G0360 G0321  Complement of information O an..35  ------TRANSPORT DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL754 G0057 G0360  Reference number O an..70 G0360 G0321[[6]](#footnote-6)  ------ADDITIONAL REFERENCE  Sequence number R n..5 R0054  Type O an4 CL380 G0057 G0360  Reference number O an..70 G0360 ~~R0021~~ G0321  …  …  ------HOUSE CONSIGNMENT  …  …  ---------DEPARTURE TRANSPORT MEANS 999x O G0360  ~~---------PREVIOUS DOCUMENT~~  ~~Sequence number R n..5 R0987~~  ~~Type R an4 CL228~~  ~~Reference number R an..70 R0416~~  ~~Complement of information O an..35[[7]](#footnote-7)~~  ---------SUPPORTING DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL213 G0057 G0360  Reference number O an..70 G0360 G0321  Complement of information O an..35  ---------TRANSPORT DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL754 G0057 G0360  Reference number O an..70 G0360 G0321[[8]](#footnote-8)  ---------ADDITIONAL REFERENCE  Sequence number R n..5 R0054  Type O an4 CL380 G0057 G0360  Reference number O an..70 G0360 ~~R0021~~ G0321  …  …  ---------CONSIGNMENT ITEM  …  …  ---------------GOODS MEASURE 1x O G0360  ------------PACKAGING 99x O G0360  ------------SUPPORTING DOCUMENT  Sequence number R n..5 R0054  Type O an4 CL213 G0057 G0360  Reference number O an..70 G0360 G0321  Complement of information O an..35  ------------ADDITIONAL REFERENCE  Sequence number R n..5 R0054  Type O an4 CL380 G0057 G0360  Reference number O an..70 G0360 ~~R0021~~ G0321  ------------TRANSPORT DOCUMENT  Sequence number R n..5 R0054  Type R an4 CL754 G0057 G0360  Reference number R an..70 G0321G0360[[9]](#footnote-9)  …  …  Part of **CC190C** message:  …  …  ------HOUSE CONSIGNMENT  …  ---------CONSIGNMENT ITEM  ….  ---------------GOODS MEASURE 1x R  ------------SUPPORTING DOCUMENT  Type R an4 CL234  Reference number R an..70 G0324 ~~R0021~~ G0321  Document line item number R n..5 G0325  …  …  **NCTS-Data Mapping- v0.43 file:** NCTS-Data Mapping- v0.43” file will be updated to depict the change regarding the message CD001C, CD003C, CD012C, CC013C, CC015C, CC029C, CD038C, CC043C, CC044C, CD050C and CD115C as described above.  **IMPACT ASSESSMENT:**    This RFC-Proposal describes the removal of R0021 across all IEs from both ‘alphanumeric’ and ‘numerical’ fields and the addition of four (4) xsd pattern types for the ‘numerical’ fields to allow or not the ‘0’ value.  The changes mainly concern the amendment of validation for allowing or not the ‘0’ value from the semantic level (R0021), to syntactic level (by applying proper xsd patterns) in common and external domain messages. For these cases there is no impact to business continuity since it only concerns a change on the validation level.  More specifically:   * For a specific data item where R0021 was not applied in DDNTA 5.14.1 and in DDNTA 5.15.0 the same data item allows the ‘0’ value at xsd level:   + If the sender is not aligned with respect to the aforementioned updates (DDNTA-v5.14.1) while the receiver is aligned (DDNTA 5.15.0), no syntactic error will occur on the recipient side. It is supposed that in this case the sender will not declare ‘0’ value, because it conforms to DDCOM principles regarding numerical fields.   + If the sender is aligned with respect to the aforementioned updates (DDNTA-v5.15.0) while the receiver is not aligned (DDNTA 5.14.1), based on DDCOM a semantic error will occur (IE906). * For a specific data item where R0021 was applied in DDNTA 5.14.1 and in DDNTA 5.15.0 the same data item allows the ‘0’ value at xsd level:   + If the sender is not aligned with respect to the aforementioned updates (DDNTA-v5.14.1) while the receiver is aligned (DDNTA 5.15.0), no syntactic error will occur on the recipient side. It is supposed that in this case the sender will declare ‘0’ value, because it conforms to DDCOM principles regarding numerical fields and no rejection will be occurred.   + If the sender is aligned with respect to the aforementioned updates (DDNTA-v5.15.0) while the receiver is not aligned (DDNTA 5.14.1), no rejection will be occurred. * For a specific data item where R0021 was not applied in DDNTA 5.14.1 and in DDNTA 5.15.0 the same data item doesn’t allow the ‘0’ value at xsd level:   + If the sender is not aligned with respect to the aforementioned updates (DDNTA-v5.14.1) while the receiver is aligned (DDNTA 5.15.0), no syntactic error will occur on the recipient side. It is supposed that in this case the sender will not declare ‘0’ value, because it conforms to DDCOM principles regarding numerical fields and no rejection will be occurred.   + If the sender is aligned with respect to the aforementioned updates (DDNTA-v5.15.0) while the receiver is not aligned (DDNTA 5.14.1), no rejection will be occurred.   **Movement initiated under the previous DDNTA (5.14.1) release which continues its flow under the new DDNTA (5.15.0) release (open movement):**  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), a semantic error shall be caused (IE906) if the sender of a message is in DDNTA 5.14.1 and provides the ‘0’ value for a Data Element that in DDNTA (DDNTA 5.15.0) shall not be used (due to the xsd pattern). As a result, if the receiver is aligned with DDNTA (DDNTA 5.15.0), a rejection will be occurred. In case later on and while the movement remains open, the NA becomes aligned with the proposed changes (DDNTA 5.15.0), no further rejection will occur regarding this issue.  **Impact in case of no Implementation**  In case of not implementing this change, the validation of DDCOM principles regarding numerical fields should be performed by the NAs by implementing extra rules/checks to verify the quality of the data that are exchanged. In case the NAs are not fully aligned with DDCOM principles, rejections may occur if the sender of a message is in DDNTA 5.14.1 and provides the ‘0’ value for a Data Element that ‘0’ value shall not be used (due to the xsd pattern).  **Proposed** date of applicability in Operations (**T-Ops**):   As soon as possible, at latest 1.12.2023  **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:** No    **Impacted messages:**   * External Domain Messages: CC013C, CC015C, CC017C, CC029C, CC043C, CC044C and CC190C * Common Domain Messages: CD001C, CD003C, CD012C, CD018C, CD038C, CD050C, CD115C, CD160C, CD165C, CD180C, CD181C, CD200C, CD203C, CD411C and CD917C     Impacted CI Artefacts:   * **CSE-v51.6.0: Yes;** * **DDNTA-v5.14.1 (Appendix Q2, PDFs): Yes;** * **DMP Package-v5.6.0 SfA-v1.00: No (incl. NCTS- Data Mapping- v0.43 file): Yes;** * **CTP-5.7.0-v1.00: Yes;** * **TRP-5.7.5: Yes;** * **CTS-5.6.1-v1.00: Yes;** * **ACS - v5.5.0 & ACS-Annex-NCTS: 5.5.0: Yes;** * Functional Specifications (FSS/BPM): No; * DDNTA-5.14.1-v1.00 (Main Document): No; * UCC IA/DA Annex B: No; * CRP-v5.5-v1.00: No; * DDCOM v20.3.0-v1.00: No; * ieCA 1.0.1.0: No; * CS/MIS2\_DATA: No; * CS/RD2\_DATA: 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-5.14.1-v1.00 (Appendices)** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **Appendices generated by CSE + Appendix Q2, Q2\_R\_C, K** | |
| **DMP Package-v5.6.0** | 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** | |
| **CTS-5.6.1-v1.00** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **Alignment of XSLT files according to the updates of specifications.** | |
| **TRP- 5.7.5** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **Impact in Drools due to new Guideline. 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**

|  |  |  |
| --- | --- | --- |
|  | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **Each NA shall incorporate the new DDNTA Appendix X, to their NTA. Implementation of the guidelines (G0021, G0321).** | |

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| --- | --- | --- | --- |
| **Document History** | | |  |
| **Version** | **Status** | **Date** | ***Comment*** |
| v0.10 | Draft by CUSTDEV | 16/11/2021 | *Draft by CUSTDEV* |
| v0.20 | Draft by CUSTDEV | 18/11/2021 | *Updated by CUSTDEV* |
| v0.21 | Draft by CUSTDEV | 29/11/2021 | *Updated by CUSTDEV* |
| v0.30 | Draft by CUSTDEV | 08/12/2021 | *Updated by CUSTDEV by implementing the comments received by DG TAXUD* |
| v0.31 | Draft by CUSTDEV | 13/12/2021 | *Updated by CUSTDEV by implementing the comments received by DG TAXUD* |
| v0.32 | Updates by CUSTDEV | 15/12/2021 | *Version Update* |
| v1.00 | SfA to NPMs | 24/02/2022 | *Updates in blue as per APO & in green as per implementation details* |
| v1.10 | SfA updates | 21/03/2022 | *Updates in magenta as per APO* |

1. The format of the inline records of Table 1 and Table 2 (n..5) will be updated to n..4 as per RfC-60055 [↑](#footnote-ref-1)
2. Data group has been added in terms of RFC-58700 [↑](#footnote-ref-2)
3. Data group has been added in terms of RFC-57392 [↑](#footnote-ref-3)
4. Data group has been added in terms of RFC-57392 [↑](#footnote-ref-4)
5. Data group has been added in terms of RFC-58700 [↑](#footnote-ref-5)
6. Data group has been added in terms of RFC-57392 [↑](#footnote-ref-6)
7. Data group has been removed in terms of RFC-57392 [↑](#footnote-ref-7)
8. Data group has been added in terms of RFC-57392 [↑](#footnote-ref-8)
9. Data group has been added in terms of RFC-58700 [↑](#footnote-ref-9)