# Impact Analysis Report/ RFC-Proposal

**Section 1: Meta-data**

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| **RFC ID** | **RFC\_NCTS\_0154** (RTC-58963) |
| **Related Incident ID** |  |
| **RFC Initiator / Organization** | CD3, DG TAXUD |
| **CI** | **NCTS-P5 (DDNTA-v05.14.1 – CSE-v51.6.0)** |
| **Type of Change** | **Standard** **Emergency** |
| **Nature of Change** | |  |  | | --- | --- | | Justification for Evolutive   |  | | --- | | **DDCOM clearly defines the use of ‘Correlation identifier’. This definition is not included in the DDNTA technical specifications.** | | |
| **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-v05.14.1 - CSE-v51.6.0) – Correlation Identifier re-evaluation** |
| A rule will be added in ‘Correlation identifier’ DI for messages CD003C, CD038C, CD059C, CD095C, CD115C, CD143C, CD151C, CD152C, CD165C, CD168C, CD181C, CD201C, CD205C, CD903C, CD906C, CD917, CD975 that will ensure that the data item is correlated with the ‘Message identification’ of the request/rejected message.  Furthermore, C0511 will be updated in order clearly defined that “Correlation identifier” will not be used in messages without Header (CD411D, CD070C, CD071C, CD971C) |

**Section 2: Problem Statement**

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| In addition to the MsgID and CorrelID available at CCN/CSI Level (in the message envelope), there are also present in the message technical header (inside the xml files) two data elements: *Message Identification* and *Correlation Identifier*.  As per DDCOM-20.3.0-v1.00 we have already specified the usage of the Correlation Identifier in case of request/response and in case of rejection:    It is proposed to transpose the above DDCOM principle into the Technical Specifications Appendices. Currently, in DDNXA/DDNTA there is no rule/dependency applied on the *Correlation Identifier*. This change will improve the quality of the information exchanged on the Common Domain for some messages by linking the request message with the response message.  As the **C0511** defines the optionality of the *Correlation Identifier*, it is proposed to add a rule (i.e. R0008) to specify the **relation** between the ***Correlation Identifier***of the messages listed in CL610 with the***Message Identification***of the previous requesting message or rejected message. This condition will be modified in order to clearly define that ***Correlation Identifier will not*** be used in messages without header. The wording of C0511 is the following:    The new Rule **R0008** will be applied in the Correlation identifier data item in order to re-evaluate it.  In CD001C the Correlation identifier is incorporated in MESSAGE data group as follows:    Respectively R0008 will be applied also in the aforementioned data item of all ~~the following~~ messages:  **Common Domain:**  ~~CD003C, CD038C, CD059C, CD095C, CD115C, CD143C, CD151C, CD152C, CD165C, CD168C, CD181C, CD201C, CD205C, CD903C, CD906C, CD917, CD975~~  CD001C, CD002C, CD003C, CC004C, CD006C, CC007C, CC009C, CD010C, CD012C, CC013C, CC014C, CC015C, CC017C, CD018C, CC019C, CC022C, CC023C, CD024C, CC025C, CC026C, CD027C, CC028C, CC029C, CC034C, CC035C, CC037C, CD038C, CC040C, CC042C, CC043C, CC044C, CC045C, CC048C, CD049C, CD050C, CC051C, CC054C, CC055C, CC056C, CC057C, CD059C, CC060C, CD063C, CD070C, CD071C, CD078C, CD094C, CD095C, CD114C, CD115C, CD118C, CC140C, CC141C, CD142C, CD143C, CD144C, CD145C, CD150C, CD151C, CD152C, CD160C, CD164C, CD165C, CD168C, CC170C, CD180C, CD181C, CC182C, CC190C, CC191C, CD200C, CD201C, CD203C, CD204C, CD205C, CD209C, CC224C, CC225C, CC228C, CC229C, CC231C, CD411D, CD903D, CD906C, CC906C, CD917C, CC917C, CC928C, CD971C, CD974C, CD975C. |

***Analysis by CUST-DEV3 Development***

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| N/A |

**Section 3: Proposed solution**

**Description of proposed solution**

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| The **DDNTA-v05.14 (incl. Appendix Q2) and the CSE-v51.60** shall be corrected as follows (addition of **text highlighted in yellow, removal with** ~~red strikethrough~~):  C0511 will be update as following:  Technical Description:  IF /\*/messageType is in SET CL610  THEN /\*/correlationIdentifier = "R"  ELSE ~~/\*/correlationIdentifier = "O"~~ **IF /\*/messageType is in SET CL385**  **THEN** /\*/correlationIdentifier = "N"  **ELSE** /\*/correlationIdentifier = "O"  Functional Description:  IF <Message type> is in SET CL610 (MessageWithCorrelationIdentifier)  THEN <Correlation identifier> = "R"  ELSE ~~<Correlation identifier> = "O"~~ **IF** <Message type> **is in SET CL385 (MessageTypeWithoutHeader)**  **THEN** <Correlation identifier> = "N"  **ELSE** <Correlation identifier> = "O"  CL385 will be introduced with the following messages: CD411D, CD070C, CD071C, CD971C   |  |  | | --- | --- | | codelistNumber | dataItem | | **CL385** | CD411D | | **CL385** | CD070C | | **CL385** | CD071C | | **CL385** | CD971C |   The new Rule **R0008** shall have the following description:  Technical Description:  /\*/correlationIdentifier shall be EQUAL to the /\*/messageIdentification of the request/rejected message.    Functional Description:  <Correlation identifier> shall be EQUAL to the <Message identification> of the request/rejected message.  Common Domain  Validated by Sender: ‘R’  Validated by Recipient: ‘N’  R0008 will be applied in Correlation identifier data item in **all** **~~Common Domain~~ messages:**  ~~CD003C, CD038C, CD059C, CD095C, CD115C, CD143C, CD151C, CD152C, CD165C, CD168C, CD181C, CD201C, CD205C, CD903D, CD906C, CD917C, CD975C.~~  CD001C, CD002C, CD003C, CC004C, CD006C, CC007C, CC009C, CD010C, CD012C, CC013C, CC014C, CC015C, CC017C, CD018C, CC019C, CC022C, CC023C, CD024C, CC025C, CC026C, CD027C, CC028C, CC029C, CC034C, CC035C, CC037C, CD038C, CC040C, CC042C, CC043C, CC044C, CC045C, CC048C, CD049C, CD050C, CC051C, CC054C, CC055C, CC056C, CC057C, CD059C, CC060C, CD063C, CD070C, CD071C, CD078C, CD094C, CD095C, CD114C, CD115C, CD118C, CC140C, CC141C, CD142C, CD143C, CD144C, CD145C, CD150C, CD151C, CD152C, CD160C, CD164C, CD165C, CD168C, CC170C, CD180C, CD181C, CC182C, CC190C, CC191C, CD200C, CD201C, CD203C, CD204C, CD205C, CD209C, CC224C, CC225C, CC228C, CC229C, CC231C, CD411D, CD903D, CD906C, CC906C, CD917C, CC917C, CC928C, CD971C, CD974C, CD975C.  An indicative example (in **CD003C)** the new rule will be applied as follows:  MESSAGE 1x R G0143  Message sender R an..35  Message recipient R an..35  Preparation date and time R an19 G0002  Message identification R an..35 G0137 T1120  Message type R an6 CL060  Correlation identifier D an..35 B1833 C0511 G0137 T1120 R0008  ……  BRT B1833 will be applied in Correlation identifier data item in all common domain messages where C0511 rule is applicable:  CD001C, CD002C, CD003C, CD006C, CD010C, CD012C, CD018C, CD024C, CD027C, CD038C, CD049C, CD050C, CD059C, CD063C, CD070C, CD071 CD094C, CD095C, CD114C, CD115C, CD118C, CD142C, CD143C, CD144C, CD145C, CD150C, CD151C, CD152C, CD160C, CD164C, CD165C, CD168C, CD180C, CD181C, CD200C, CD201C, CD203C, CD204C, CD205C, CD209C, CD411D, CD906C, CD917C, CD971C, CD974C, CD975C  BRT B1833 will be applied in Correlation identifier data item in the declaration messages where C0511 is applicable:  CC013C, CC015C  An indicative example (in **CD001C**) the new rule will be applied as follows:  MESSAGE 1x R G0143  Message sender R an..35  Message recipient R an..35  Preparation date and time R an19 G0002  Message identification R an..35 G0137 T1120  Message type R an6 CL060  Correlation identifier D an..35 B1833 C0511 G0137 T1120  NCTS-Data Mapping- v0.43 file: “NCTS-Data Mapping- v0.43” file will be updated to depict the change that is described above, regarding the rule B1833.  **IMPACT ASSESSMENT**  **No impact on Common Domain / External Domain**  It is considered that the proposed change is **almost a documentary change** (transposition of the DDCOM specification into DDNTA) without impact on business continuity therefore it is proposed to follow the ***flexible way***.  In particular, the application of R0008 affects all messages and the introduction of B1833 affects all common domain messages and declaration messages where C0511 rule is applicable.  Considering that the R0008 is not validated by the Recipient, irrespectively of the version (either DDNTA 5.15.0 or DDNTA 5.14.1) that the sender and the receiver are aligned to, there will be no impact when the sender and the receiver are not aligned.  With respect to rule B1833, that proposes that the optionality of the data element <Message. Correlation identifier> and the Rule C0511 assigned on it can be modified dynamically without any impact on Appendix Q2, there will be no impact when the sender and the receiver are not aligned if the DDCOM principles are followed for the Correlation Identifier implementation.  However, the dynamic approach proposed in this RfC, facilitates any future updates/ changes to the optionality and/or Rules assigned to the data element <Message. Correlation identifier>.  **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 DDNΤA (DDNΤA 5.14.1) release and continues its flow under the new DDNΤA (DDNΤA 5.15.0) release (open movement), ~~no impact is foreseen since R0008 will only be validated by the sender~~ if the DDCOM principles are followed for the Correlation Identifier implementation.  **Sender (DDNTA 5.15.0) and Recipient in (DDNTA 5.14.1):**  If the sender is aligned with the proposed changes (DDNTA 5.15.0), and the receiver is not (operating under DDNTA 5.14.1) then no semantic rejection shall be caused, provided that the implementation for the data element <Message. Correlation identifier> in the recipient follows DDCOM principles.  **Sender (DDNTA 5.14.1) and Recipient in (DDNTA 5.15.0):**  If the sender is not aligned with the proposed changes (DDNTA 5.14.1), and the receiver is aligned (operating under DDNTA 5.15) then no semantic rejection shall be caused, provided that the implementation for the data element <Message. Correlation identifier> in the sender follows DDCOM principles.  **Risk of not implementing the change:** ~~No impact in case the exact DDCOM principles are applied~~. In case of not implementing this change, the Correlation Identifier is not mapped dynamically to the Message Identification data item of the request/ rejected message, but it is statically linked according to DDCOM principles. No impact is foreseen if the DDCOM principles are followed for the data element <Message. Correlation identifier>.  **Proposed** date of applicability in Operations **(T-ops)**: As soon as possible, 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**: None  **Risk of not implementing the change:** Yes  **Impacted Messages:**  CD906C,CD006C,CC015C,CD018C,CD917C,CD001C,CC009C,CC004C,CD002C,CD114C,CC014C,CC019C,  CD027C,CC025C,CC028C,CC054C,CC045C,CD059C,CC060C,CC140C,CC141C,CD145C,CD142C,CD144C,  CD143C,CD010C,CD024C,CC055C,CD063C,CD118C,CD168C,CD003C,CD012C,CC017C,CD050C,CD038C,  CC029C,CC051C,CC007C,CC013C,CC043C,CC044C,CD180C,CD181C,CC182C,CC040C,CD164C,CD115C,  CC928C,CD165C,CD971C,CC023C,CD200C,CD201C,CD094C,CD095C,CD160C,CD070C,CD071C,CC026C,  CC035C,CC042C,CC048C,CD049C,CC170C,CD150C,CD151C,CD152C,CD203C,CD205C,CD204C,CD209C,  CC224C,CC225C,CC228C,CC034C,CD411D,CC231C,CC229C,CC190C,CC022C,CC191C,CC056C,CC057C,  CC906C,CC917C,CD975C,CD903D,CD974C,CD078C  **Impacted Rules/Conditions, BRTs:** R0008, C0511, B1833  **Impacted CIs:**   * **CSE-v51.6.0: Yes;** * **DDNTA-v05.14.1 (Appendix Q2\_R\_C, PDFs): Yes;** * **DMP Package-v5.6.0 SfA-v1.00: Yes (incl. update of file Rules and Conditions\_v0.43): Yes;** * CTS-5.6.1-v1.00: No; * CTP-5.7.0-v1.00: No; * CRP-v5.5-v1.00: No; * ACS - v5.5.0 & ACS-Annex-NCTS: 5.5.0: No; * TRP-5.7.5: Yes; * DDCOM v20.3.0-v1.00: No; * ieCA 1.0.1.0: No; * CS/MIS2\_DATA: No; * CS/RD2\_DATA: Yes; * AES-P1 and NCTS-P5 Long-Lived “Legacy” (L3) Movements Study v1.40: No. |

**Impact on CI artefacts**

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| **DDNTA-v05.14.1 (Appendices)** | Cosmetic  Low  Medium  High  Very High   |  | | --- | | **Appendices generated by CSE + Appendix Q2, Q2\_R\_C** | |
| **CSE-v51.6.0** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **Updates as described in section 3.** | |
| **TRP-v5.7.5** | |  | | --- | | Cosmetic  Low  Medium  High  Very High  Short description  **Alignment of messages according to the updates of specifications.** | |
| **DMP Package- v5.6.0 SfA-v1.00** | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **Rules and Conditions\_v0.43 file to be updated** | |
| CS/RD2\_DATA | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | **CL385 will be introduced.** | |

**Estimated impact on National Project**

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|  | Cosmetic  Low  Medium  High  Very High  Short description   |  | | --- | | It is considered that the proposed change is almost a documentary change (transposition of the DDCOM specification into DDNTA) without impact on business continuity therefore it is proposed to follow the flexible way. | |

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| **Document History** | | |  |
| **Version** | **Status** | **Date** | ***Comment*** |
| v0.10 | Draft by CUSTDEV | 23/11/2021 | Draft by CUSTDEV |
| v0.11 | Draft by CUSTDEV | 10/12/2021 | *Updates by CUSTDEV* |
| v0.12 | Updates by CUSTDEV | 15/12/2021 | *Version Update* |
| v1.00 | SfA to NPMs | 25/02/2022 | *Updates in blue.*  *Updates in blue based on APO* |
| v1.10 | SfA updates | 21/03/2022 | *Updates in magenta based on APO* |