1. ICP NUMBER: M2018-03-C0-F
2. ICP TITLE: Creation of NIEM Conformant String Simple Types
3. ICP ORIGINATOR: ACC/A5JIM

300 Exploration Way

Hampton, VA 23666

1. PROBLEM STATEMENT: To minimize the number of simple types required for submission to NIEM, the USMTF CCB agreed to rationalize data types that possess the same qualities. This ICP addresses the string data types.
2. PROPOSED SOLUTION: Update USMTF to support NIEM conformant string simple types.
3. TECHNICAL POC(S): Mr. Stephen Jarvis

ACC/A5JI

300 Exploration Way

Hampton, VA 23666

Phone: 757-225-6276 / DSN 575-6276

Email: [stephen.jarvis@us.af.mil](mailto:stephen.jarvis@us.af.mil)

**Creation of NIEM Conformant String Simple Types**

ICP NUMBER: M2018-03-C0-F

ICP TITLE: Creation of NIEM Conformant String Simple Types

RECEIPT DATE: 12 Feb 2018

ICP PRECEDENCE: ROUTINE

ICP ORIGINATOR: ACC/A5JIM

300 Exploration Way

Hampton, VA 23666

ICP POC: Mr. Stephen Jarvis

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Email: [stephen.jarvis@us.af.mil](mailto:marcus.power@us.af.mil)

AFFECTED DOCUMENTS: MIL-STD-6040B(C1), USMTF Message Catalog, USMTF Database

RECOMMENDATIONS: YES NO

CCB X

ELECTRONIC CM X

NATO/ALLIED COORDINATION X

ADMINISTRATIVE RECORD OF PROCESSING:

|  |  |
| --- | --- |
| DATE | ACTION: |
| 20180228 | Received after the ICP submission date for USMTF CCB 2018-1. Will be introduced by the USAF at CCB 2018-1 with a date for an Electronic Vote decided by the CCB. |
| 20180228 | Posted to the USMTF Portal on DEPS. |
|  |  |
|  |  |

**Creation of NIEM Conformant String Simple Types**

1. STATEMENT OF THE PROBLEM: To minimize the number of simple types required for submission to NIEM, the USMTF CCB agreed to rationalize data types that possess the same qualities. This ICP addresses the string data types.
2. PROBLEM ANALYSIS:
   1. In an effort to begin submitting USMTF data objects to NIEM/MilOps, the focus was shifted to simple types since they do not have dependencies with other data objects (e.g., Sets to Fields). USMTF uses four simple types: decimal, integer, string, and string with enumeration. This submission addresses string simple types only.
   2. To minimize the number of simple types required, the USMTF CCB agreed to rationalize data types that possessed the same qualities. There were 702 string data types in the USMTF Database, which were rationalized into 390 generic NIEM conformant string simple types. These new string simple types will be mapped to the Field elements in a subsequent ICP.
   3. The following naming and design conventions were used in the preparation of the ICP:
      1. Simple Type Name starts with “String” and includes the specifications of the simple type to make the name unique;
      2. Data Definition follows the naming pattern;
      3. Includes only facets required to support the string data type: minLength, maxLength, Length (for fixed length data items) and pattern. The pattern facet is being used to derive the name for the data type based on its allowable characters per MIL-STD- 6040(B). For example, extended or special extended characters.
   4. Once approved, the attached spreadsheet will be forwarded to the USMC for the creation of the NIEM Reference schema submission. This is an interim step until the USMTF Schema Generator has been updated.
3. PROPOSED SOLUTION: Review the attached spreadsheet.
4. ALTERNATE SOLUTION: None.
5. TECHNICAL RECORD OF PROCESSING:
6. RECOMMENDED IMPLEMENTATION DATE: CCB determination required.
7. OTHER CONSIDERATIONS: None.
8. REFERENCES: None.
9. ANNEXES:
10. ANNEX A – Excel Spreadsheet

ANNEX A

