

USMTF XML SCHEMA

Using

NIEM Methodology



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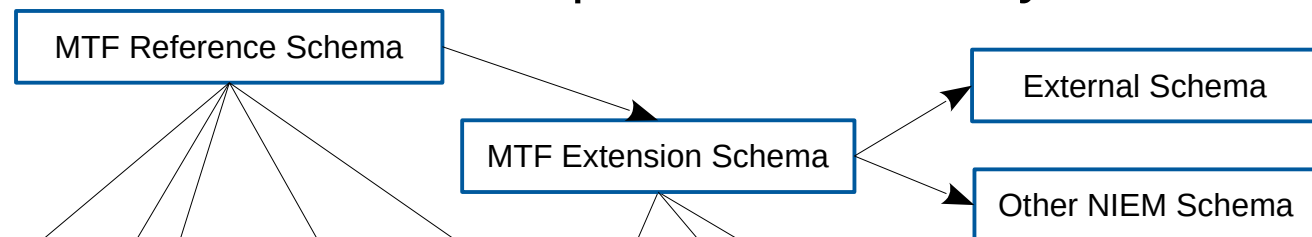


USMTF XML SCHEMA IMPLEMENTATION

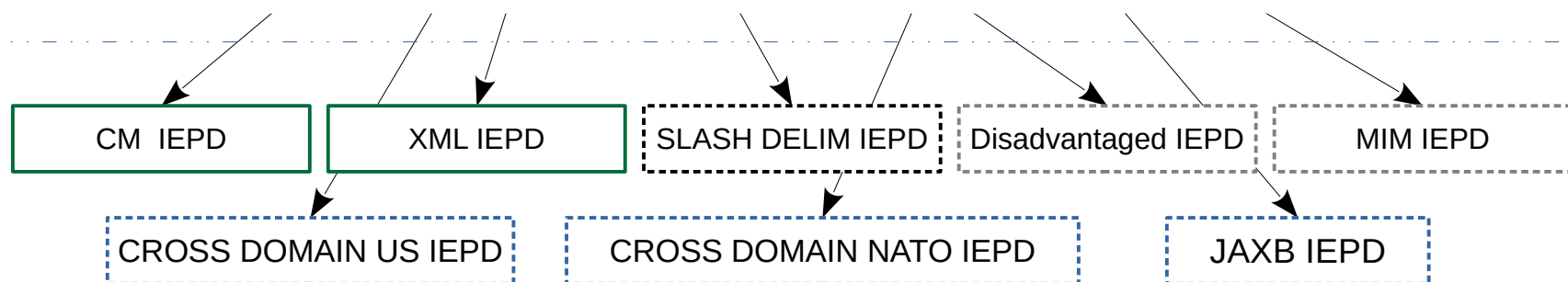
NIEM METHODOLOGY

- *Employ Uniform XML Schema design principles to maximize extensibility in order to achieve Interoperability between complex data models.*
- *Data component “Re-Use” is achieved using XML Extension and Restriction for purposes of validation and independent verification.*

EXTENSIBLE RESOURCES – Not implemented directly



EXTENSION – RESTRICTION - VALIDATION



FINAL PRODUCTS - NOT EXTENSIBLE



Project Status

All US and NATO MTF Messages have been refactored to achieve:

1. Cumulative NIEM Conformant Reference XML Schema for each standard using a single XML Namespace
2. Separate Reference XML Schema for each Message
3. Cumulative Implementation XML Schema for the entire standard against which all instances are valid.
4. Separate Implementation XML Schema for each Message for which all instances are valid against the both Implementation and Reference Schema.



Collaborative Efforts

1. All Products are available to Partner Nations for use in Exercises and Demonstrations in order to identify issues and allow recommendations for improvement
2. All software used to generate these documents, as well as guidance on how to implement them will be publicly available at:

<https://github.com/mil-oss/MTFXML>

3. Information Exchange solutions using these products will follow the Information Exchange Product Documentation principles provided in the NIEM methodology which ensures that all necessary resources for a specific implementation are provided with a data model implementation.



Way Forward

1. Provide NCDF MTF XML as “Alpha” for next CWIX 2019 and any ACTDs, JCTDs and partner nations who want to engage
2. Incorporate inputs into “Beta” version for CWIX 2020, and update implementers
3. Incorporate inputs and propose alternate/upgrade version of NATO NCDF XML MTF in 2021
4. Incorporate MTF Objects into MIM (Maritime etc.)

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