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| Office of Child Support Enforcement |
| **Model Tribal System NIEM Data Exchange** |
| Business Requirements |

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# Introduction

This document describes the design of NIEM conformant data exchanges (IEPD) between the Model Tribal System (MTS) and state and tribal systems and FPLS services.

Where possible, the design is based on data objects (classes) derived from the MTS database model and represented in a UML class diagram as a canonical model. This canonical model is used to create specific data exchanges (IEPD’s). The canonical model will be provided in two forms, one without class relationships and another with class relationships. This is done to provide developers with options when relating classes in the design of their IEPD to accommodate various case management system designs.

# Design Approach

A canonical model, represented as classes in UML is designed using classes form the MTS Entity Relationship Diagram (ERD). Reusing the classes from the MTS database design makes it easier to extract data from the MTS into the target IEPD’s.

Initially associations between the classes will not be represented in the canonical model since the associations in each IEPD may vary.

Where possible the names of classes and properties as well as the descriptions will be derived from the MTS database using the MTS data registry.

Classes and properties in the canonical model will be mapped to NIEM classes and proprieties where possible. New classes and properties will be created where compatible NIEM equivalents are not present.

The following diagram depicts the design approach.

**Eligibility**

TANF

SNAP

**Case**

ID

State

**Participant**

Role

Name

MTS

**MTS ERD**

**Case**

ID

State

**Participant**

Role

Name

**Eligibility**

TANF

SNAP

**MTS Canonical UML**

**Case**

ID

State

**Participant**

Role

Name

**MTS IEPD UML**

**MTS IEPD Design**

# Pilot Project

The initial IEPD to be developed will be the Case Intake. The pilot will include only the data sent from the MTS to establish a ***new*** child support case in the responding states or tribal system. ***The Case Intake IEPD does not support the transmission of an update to an existing case.*** The Case Intake IEPD will support the following data exchange environments:

1. State to state
2. Tribe to state
3. State to Tribe

## IEPD Design Considerations

Business Rules

The Case Intake IEPD will not define any business rules such as; “Validate that birth dates are no more than nine months in the future”. Business rules may change and by not embedding business rules in the IEPD reduces the need to change the IEPD when business rules change or are added.

Message Transmission Policies

The Case Intake IEPD will include data elements to ensure the integrity of transmission of the data such as message receipt acknowledgement.

Data Privacy and Security

The Case Intake IEPD will include data elements identifying sensitive data elements such as personal identifying data or data such as family violence indicator. An enumerated list of terms and definitions for sensitive data will be included.

Data Quality

The Case Intake IEPD will include data elements that support data quality dimensions such as the currency of data (freshness), data verification or validation indicators etc. An enumerated list of data quality dimensions terms will be included.

Naming and Definitions

The IEPD will use the naming conventions and definitions from the MTS system data model. Some names and definitions maybe changed to improve readability and understanding. Mapping of MTS data model to the IEPD and NIEM core will be documented.

# Assumptions and Constraints

Classes and properties will be derived from the following additional sources:

* NCFAST
* PARIS

# Reference Documents

Model Tribal System

MTS ERD (Entity Relationship Diagram)

MTS Uses Cases for Case Intake

MTS Software Requirements Specification (SRS)

CSENet technical documentation

Model Tribal System Case Intake Use Case May 18, 2010

System Requirements Specification Volume 1 October 21, 2014 Version 1.22