

CJIS Division Information Technology Uniform Crime Reporting Program

National Incident-Based Reporting System Information Exchange Package Documentation 2019.2 Master

Version 1.0

Documentation

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1. Introduction

The Uniform Crime Reporting (UCR) system includes the ability to process National Incident-Based Reporting System (NIBRS) data submitted in Extensible Markup Language (XML) format. This document provides guidance for version 2019.2 of the NIBRS Information Exchange Package Document (IEPD).

The structure of this document is intended to be compliant with version 3.2 of "Requirements for a National Information Exchange Model (NIEM) IEPD Specification."

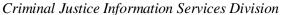
2. Purpose and Scope

The NIBRS 2019.2 IEPD provides law enforcement agencies documentation that lists specifications to be used for the exchange of complete, accurate, and timely criminal justice information that is classified as Law Enforcement Sensitive, Sensitive But Unclassified, or Controlled Unclassified Information. This release of the National Data Exchange (N-DEx) IEPD is based on the NIEM IEPD Template Requirements document and contains written documentation, schemas, instance documents, style sheet, a mapping spreadsheet, and additional documentation.

3. List of Artifacts

| Artifact Name | Purpose |
|---|---|
| documents/nibrs_MasterDocument.pdf | This document, which provides guidance |
| - | on the usage of the NIBRS 2019.2 IEPD |
| documents/nibrs_XMLMapping_Spreadsheet.xlsx | Mapping spreadsheet containing domain |
| | model entities |
| documents/ NIBRS_2019_2_UML.pdf | High Level Unified Modeling Language |
| | (UML) Message Overview Diagrams |
| documents/nibrs_CodeTables.xlsx | Code Table Spreadsheet containing code |
| | lists |
| documents/NIBRS XML Frequently Asked | Frequently asked questions for XML |
| Questions.pdf | implementers |
| /nibrs_ConformanceAssertion.txt | Example conformance assertion |
| /readme.txt | IEPD Content Listing |
| /changelog.txt | Change log list that details the change |
| | history between versions of the IEPD |
| /mpd-catalog.xml | Schema document file that is a |
| | hyperlinked Model Package Description |
| | (MPD) Catalog |
| iep-sample/nibrs_AllFields_Sample.xml | All fields sample file |
| iep-sample/nibrs_GroupAIncident_Sample.xml | NIBRS Insert Group A Incident Sample |
| iep-sample/nibrs_GroupAReplace_Sample.xml | NIBRS Replace Group A Sample |
| iep-sample/nibrs_GroupBArrest_Sample.xml | NIBRS Group B Add Arrest Sample |
| iep-sample/ | NIBRS Group B Delete Arrest Sample |
| nibrs_GroupBArrestDelete_Sample.xml | |

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| iep-sample/nibrs_IncidentDelete_Sample.xml | NIBRS Delete Group A Incident Sample |
|--|--------------------------------------|
| iep-sample/nibr_ZeroReport_Sample.xml | NIBRS Zero Report Sample |
| base_xsd/cjis/2.1/cjis-codes.xsd | CJIS Specific Codes |
| base_xsd/cjis/2.1/cjis.xsd | CJIS Schema Validation |
| base_xsd/nibrs/2019.2/nibrs-codes.xsd | NIBRS Specific Codes |
| base_xsd/nibrs/2019.2/nibrs.xsd | NIBRS Schema Validation |
| niem/*.* | NIEM Codes and Validation Schemas |

4. NIBRS and NIEM Interaction

4.1 NIEM Constrained Subset Schemas

This group of schemas is included in the xsd/niem directory of the IEPD directory structure.

4.2 Extension XML Schemas

These schemas include nibrs.xsd and nibrs-codes.xsd, which are in the xsd/nibrs/2019.2/ directory, and the cjis.xsd and cjis-codes.xsd found in the xsd/cjis/2.1/ directory of the IEPD directory structure.

5. XML Elements and Associations

For a detailed listing of NIBRS data elements and their associated Xpath, refer to the XML Mapping Spreadsheet at /documents/nibrs_XMLMapping_Spreadsheet.xlsx

6. Business Rules

Please refer to the current version of the NIBRS Technical Specification for all business rules and cardinality information.

7. Development Resources

- <oXygen/> XML Editor 16.1, build 2014112517 was used to create, edit, and validate
 against the xsd file. Fields were derived from the NIBRS Technical Specification
 documentation.
- NIEM Subset Generation Tool (SSGT) was used to define wantlist.xml and generate schema documentation.

8. Testing and Conformance

XML Group tested the integrity of the IEPD schemas by parsing the sample instances (included in the xml/ directory) with <oXygen/> XML Editor 16.1, build 2014112517. The workgroup reviewed the conformance of the IEPD.

9. Contact

For questions or additional information:

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Appendix A. Acronyms and Abbreviations

| Acronym | Definition |
|---------|---|
| CJIS | Criminal Justice Information Services |
| ETSU | Enterprise Technology Services Unit |
| IEPD | Information Exchange Package Document |
| ITMS | Information Technology Management Section |
| N-DEx | National Data Exchange |
| NIBRS | National Incident-Based Reporting System |
| NIEM | National Information Exchange Model |
| SSGT | Subset Generation Tool |
| SSN | Social Security Number |
| UCR | Uniform Crime Reporting |
| XML | Extensible Markup Language |