

2020 BEST OF

< NIEM >

NATIONAL INFORMATION EXCHANGE MODEL

TM





Without further ado...



Interoperability Solution Division (ISD)

Innovation, Information and Technology Branch
Employment and Social Development Canada



Service
Canada

Interoperability Solution Division (ISD)

Innovation, Information and Technology Branch
Employment and Social Development Canada

Department Accounts Receivable System Project

Use of NIEM demonstrated standardized common data vocabulary and positions ESDC as a leader toward achieving Canada's goal for digital government

Single client-centric master data view of accounts receivable, streamlining high volume of transactions generated by different systems and programs

Expected to improve user experience, allow for more accurate financial reporting

Expected to improve recovery of overpayment expected with quick, accurate flow of information between systems

Hosted Contact Centre Solution Project

**NIEM enabled delivery of required data to IBM IVR system for multiple programs
– achieving seamless data interoperability**

The new system provides timely, accurate information, allowing citizens to self-serve over phone for Canada's Pension Plan and Old Age Security benefits



Service
Canada



PRESENTED TO

Innovation, Information and Technology Branch
Interoperability Solution Division
Employment and Social Development Canada
Government of Canada



AWARDED FOR

**Developed and shared NIEM IEPDs with
multiple program areas – improving
citizens rapid access to the Pension Plan
and Old Age Security benefits**

Situational Awareness Branch

Division of Emergency Operations Center for Preparedness and Response



**CDC Situational Awareness:
Key Component of Public Health
Emergency Preparedness & Response**

The Center for Preparedness and Response, Division of Emergency Operations, Situational Awareness Branch Supports National and International Partners in Collecting, Extracting, Transforming, Analyzing, and Visualizing Data for Decision Support



Situational Awareness Branch
Division of Emergency Operations
Center for Preparedness and Response

EOC's MDS is International Vocabulary Standard* Added to NIEM Emergency Management Domain Connecting ALL Partners in Interoperable Information Sharing

The diagram illustrates the integration of LOINC, CDC, and NIEM standards for Emergency Management. It is divided into three main sections: LOINC (Left), CDC (Center), and NIEM (Right).

LOINC (Left): Displays the 'Minimum Data Set (MDS) for Public Health Emergency Operations Centers (EOC) [CDC Emergency Operations Centers]'. A table lists LOINC codes and their descriptions:

LOINC CODE	LOINC COMMON NAME	LOINC STATUS
89724-9	Minimum Data Set (MDS) for Public Health Emergency Operations Centers [EOC] [CDC Emergency Operations Centers]	Active

CDC (Center): Displays the 'Public Health Information Network Vocabulary Access and Distribution System (PHIN VADS)'. It includes a search bar and a list of 'PH Emergency Preparedness' topics. The topic '1.1 Minimum Data Set for PH Emergency Operations Center' is highlighted with a red circle.

NIEM (Right): Displays the 'Emergency Management' domain. It includes a search bar and a list of 'Emergency Management' topics. The topic '1.1 Minimum Data Set for PH Emergency Operations Center' is highlighted with a red circle.

Arrows indicate the flow of information from LOINC to CDC and from CDC to NIEM.

* The PH EOC MDS is a panel [89724-9](#) in the *International Healthcare and Public Health Vocabulary Standard Logical Observation Identifiers Names and Codes (LOINC)*





PRESENTED TO
Situational Awareness Branch
Division of Emergency Operations
Center for Preparedness and Response
Centers for Disease Control and Prevention



AWARDED FOR

**Developed NIEM-based public health
emergency preparedness and response
Information Exchange Requirements,
Minimum Data Set, and standardized
vocabulary**

Innovation and Technology Team

City of Charlotte, North Carolina



**CHARLOTTE-MECKLENBURG POLICE
DEPARTMENT**

Innovation and Technology Team

City of Charlotte, North Carolina



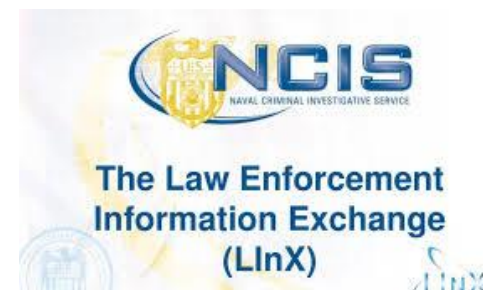
North Carolina State Bureau of Investigation
Agency Error Percentage
Charlotte-Mecklenburg
2018
Production System
Run Date: 3/10/2020 11:36:16 AM

North Carolina State Bureau of Investigation
Agency Error Percentage
Charlotte-Mecklenburg
2019
Production System
Run Date: 3/10/2020 11:36:45 AM

North Carolina State Bureau of Investigation
Agency Error Percentage
Charlotte-Mecklenburg
2020
Production System
Run Date: 3/10/2020 11:38:02 AM

NIBRS Submissions Consistently at 97-98% Success Rate/Month

Month	Number Incidents Submitted	Number Incidents Rejected	Agency Error Rate	Month	Number Incidents Submitted	Number Incidents Rejected	Agency Error Rate	Month	Number Incidents Submitted	Number Incidents Rejected	Agency Error Rate
January	0	0	0.0%	January	6326	180	2.8%	January	6067	104	1.7%
February	0	0	0.0%	February	5689	159	2.8%	February	5593	90	1.6%
March	0	0	0.0%	March	6226	159	2.6%	March	1424	27	1.9%
April	0	0	0.0%	April	6212	116	1.9%	April	0	0	0.0%
May	0	0	0.0%	May	6763	121	1.8%	May	0	0	0.0%
June	0	0	0.0%	June	6446	92	1.4%	June	0	0	0.0%
July	0	0	0.0%	July	7047	139	2.0%	July	0	0	0.0%
August	7018	169	2.4%	August	6748	131	1.9%	August	0	0	0.0%
September	6307	156	2.5%	September	6715	111	1.7%	September	0	0	0.0%
October	6398	174	2.7%	October	6909	110	1.6%	October	0	0	0.0%
November	6095	169	2.8%	November	6161	132	2.1%	November	0	0	0.0%
December	6165	153	2.5%	December	6277	144	2.3%	December	0	0	0.0%





PRESENTED TO

Innovation and Technology Team
City of Charlotte, North Carolina



AWARDED FOR

Developed NIEM-based, single source
data mapping initiative distributing data
to multiple external regional, state,
and federal law enforcement systems

Defense Counterintelligence and Security Agency

U.S. Department of Defense



Defense Counterintelligence and Security Agency

U.S. Department of Defense



NIEM is DCSA preferred method of sharing data in Enterprise Data Management Strategy (EDMS)

Published NIEM conformant IEPD supporting exchange of DD-254 (DoD Contract Security Classification Specification) in both XML and JSON

The NIEM exchange pulls DD-254 data to a central repository that will illuminate complex critical technology protection, safeguarding supplier networks and illuminate chain risks that threaten our warfighters and national security

DD-254 Standard Interface deployed in January 2020
Accompanied with published DD-254 API Web Service Instructions for use

Interoperable with the State Department and Department of Homeland Security



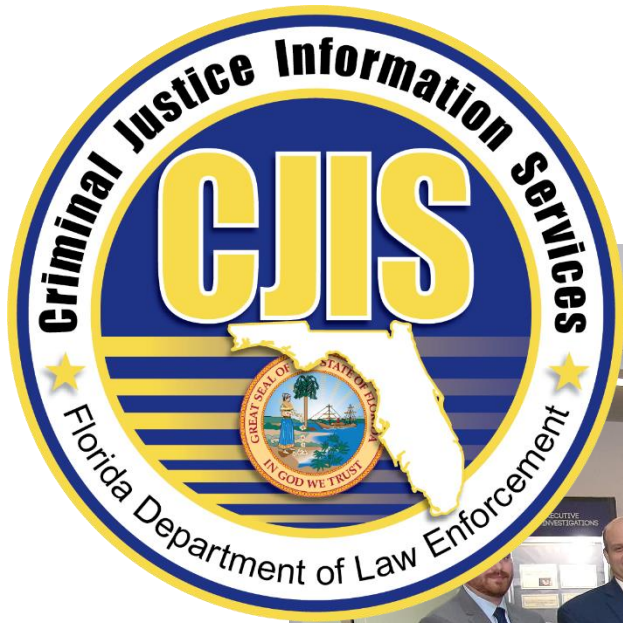
PRESENTED TO
Defense Counterintelligence and Security Agency
U.S. Department of Defense



AWARDED FOR
Published NIEM-conformant IEPD
supporting exchange of the DD-254
Contract Security Classification Specification
in both XML and JSON

Criminal Justice Information Services

Florida Department of Law Enforcement (FDLE)

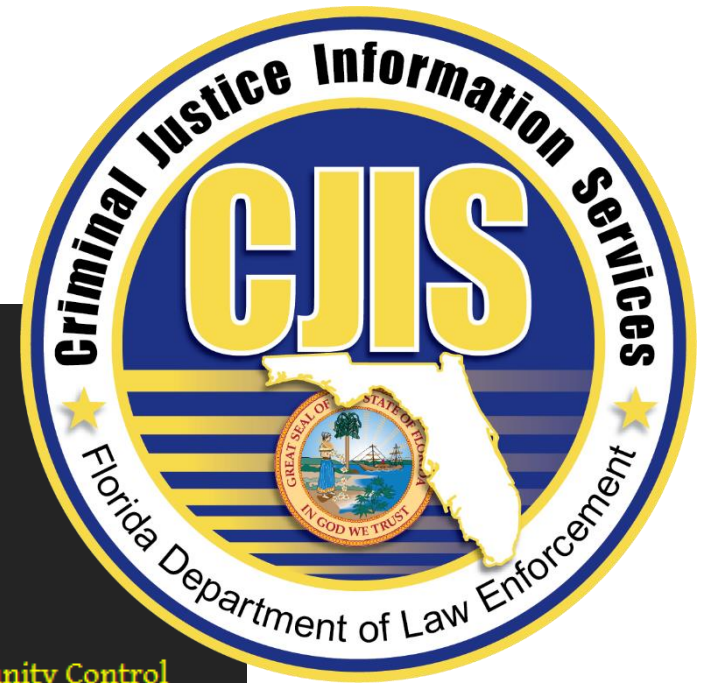


Criminal Justice Information Services

Florida Department of Law Enforcement

IEPD Data Objects Frequency

Incident & Event Data Structures





PRESENTED TO

**Criminal Justice Information Services
Florida Department of Law Enforcement
State of Florida**



AWARDED FOR

**Adopted and implemented NIEM
to collect and share criminal justice
data across Florida**

Identity, Records, and National Security Delivery Division

Office of Information Technology

USCIS goal of strengthening and improving system integration and interoperability is essential in ensuring the performance and quality of the SAVE and E-Verify programs

Supporting DHS mission of enforcing and administering immigration laws of our Nation



Identity, Records, and National Security Delivery Division (IRNSDD) and NIEM standards

September 2020



Presented by:

Justin Legary – IRNSDD Division Chief
Pablo Juarez – Verification Branch Chief

Using NIEM

IRNSDD streamlined data migration and matured overall data management across multiple systems using several NIEM domains

Identity, Records, and National Security Division

Office of Information Technology

NIEM Standards Mapped Across All Verification Information Systems (VIS)

E-Verify Data Model Mapping Example



What's Next?

Verification Branch teams are mandated to adopt NIEM standards for any new service developed starting with next iteration of SAVE web services

IRNSDD's Person Centric Identity Services (PCIS) initiative is adopting and promoting NIEM standards -- imperative when integrating disparate systems



PRESENTED TO

Identity, Records, and National Security Delivery Division
Office of Information Technology
U.S. Citizen and Immigration Services
U.S. Department of Homeland Security



AWARDED FOR

**Adopted and implemented NIEM
standards on critical systems essential to
the interoperability of multiple data
sources**

2020 BEST OF N I E M

NATIONAL INFORMATION EXCHANGE MODEL



Innovation, Information
and Technology Branch
Interoperability Solution Division
Employment and Social
Development Canada



Situational Awareness Branch
Emergency Operations Division
Center for Preparedness and
Response
U.S. Centers for Disease Control
and Prevention



Innovation and
Technology Team
City of Charlotte,
North Carolina



Enterprise Analytics and
Information
U.S. Defense Counterintelligence
and Security Agency



Criminal Justice Information
Services Division
Florida Department of Law
Enforcement



Identity, Records, and
National Security Division
Office of Information
Technology
U.S. Citizen and Immigration
Services

2020 BEST OF
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NATIONAL INFORMATION EXCHANGE MODEL™

**Service
Canada**

Innovation, Information
and Technology Branch
Interoperability Solution Division
Employment and Social
Development Canada



Enterprise Analytics and
Information
U.S. Defense Counterintelligence
and Security Agency

SA

Situational Awareness

Situational Awareness
Emergency Operations
Preparedness



Criminal Justice Information
Services Division
Florida Department of Law
Enforcement



Innovation and
Technology Team
City of Charlotte,
North Carolina



Identity, Records, and
National Security Division
Office of Information
Technology
U.S. Citizen and Immigration
Services



RECOGNITION





PRESENTED TO
Peter T. Ranks, SIS
Deputy Chief Information Officer
Information Enterprise
U.S. Department of Defense



RECOGNIZED FOR
Outstanding guidance and leadership as
Chair – NIEM Executive Steering Council



PRESENTED TO

NIEM 5.0 Harmonization Working Group



RECOGNIZED FOR

Significant contributions to the highly reliable NIEM 5.0 release by harmonizing NIEM Core and cross-domain content





PRESENTED TO

Web Content Management as a Service (WCMaas)

DHS WCMaas Team

U.S. Department of Homeland Security



RECOGNIZED FOR

Exceptional development, hosting, and support of the NIEM.gov website and migration to Drupal 8.0 design



Peter T. Ranks, SIS

Outstanding guidance and leadership as Chair – NIEM Executive Steering Council

NIEM 5.0 Harmonization Working Group

Significant contributions to the highly reliable NIEM 5.0 release by harmonizing NIEM Core and cross-domain content

Web Content Management as a Service Team

U.S. Department of Homeland Security

Exceptional development, hosting, and support of the NIEM.gov website and migration to Drupal 8.0 design

