NIEM API 2.0 AND NIEM TOOLBOX – 1

Transition legacy NIEM tools into updated open source products. Move key functionality out of tools into the API for reusability.

Feature	NIEM API	NIEM Toolbox
(*Background*)	• Java / Spring Boot and PostgreSQL database • Hosted via GTRI	• Nuxt (JS) SPA • Hosted via GitHub Pages *(free)*
Transforms	• Transform models into other formats • Inputs – CMF or NIEM XSD • Outputs – CMF, XSD, JSON Schema, or OWL • Leverages the CMF tool	• Form to upload file and set options • API request • Download results
Validation	• XSD – Validate and check NDR conformance • XML – Validate against provided schema • CMF – Validate against schema (NTAC) • IEPD catalog – Validate against schema (NTAC) • XML catalog – Validate against schema (OASIS)	• Form to upload file and set options • API request • Download and view results
Migration	• Migrate from one supported model version to a more recent version • Can iterate over multiple versions in one call • Accepts input and generates results as CMF	• Form to upload file and set options • API request • Download and view results

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Done

In progress

NIEM API 2.0 AND NIEM TOOLBOX – 2

Transition legacy NIEM tools into updated open-source products. Move key functionality out of tools into the API for reusability.

Feature	NIEM API	NIEM Toolbox
Model data	• Return information about models, versions, namespaces, properties, classes, datatypes, and facets • Supports NIEM and published community models • NIEM data 1.0 – 5.2 currently available	• Browse model data • View information about components • View information about curated list of common components
Search	• Search properties, types, and codes • Supports fuzzy searching, including tokens and substrings • Filter results by namespace • Component-specific search fields	• Search models • View results • View information about components
Model management	• Add, edit, and delete model content • Model and component QA • Load change request spreadsheets • Generate release artifacts • Generate model stats	

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Done   In progress