

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)	<ul style="list-style-type: none">• Java / Spring Boot and PostgreSQL database• Hosted via GTRI	<ul style="list-style-type: none">• Nuxt (JS) SPA• Hosted via GitHub Pages (<i>free</i>)
Transforms	<ul style="list-style-type: none">• Transform models into other formats• Inputs – CMF or NIEM XSD• Outputs – CMF, XSD, JSON Schema, or OWL• Leverages the CMF tool	<ul style="list-style-type: none">• Form to upload file and set options• API request• Download results
Validation	<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• Form to upload file and set options• API request• Download and view results
Migration	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Form to upload file and set options• API request• Download and view results

NIEM API 2.0 AND NIEM TOOLBOX – 2

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Feature	NIEM API	NIEM Toolbox
Model data	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Browse model data• View information about components• View information about curated list of common components
Search	<ul style="list-style-type: none">• Search properties, types, and codes• Supports fuzzy searching, including tokens and substrings• Filter results by namespace• Component-specific search fields	<ul style="list-style-type: none">• Search models• View results• View information about components
Model management	<ul style="list-style-type: none">• Add, edit, and delete model content• Model and component QA• Load change request spreadsheets• Generate release artifacts• Generate model stats	