State of North Carolina
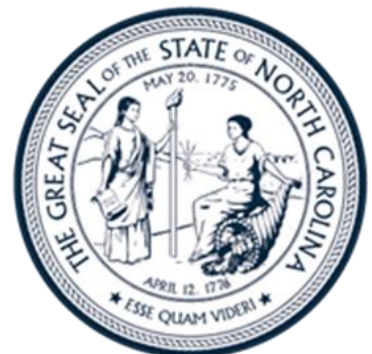## Application/Data Integration Standard

Statewide IT Standard

Version 1.0

March 25, 2025

Document Information

Revision History

Date	Version	New or Revised Requirement	Description	Author
8/1/2024	1.0	New	Standard Approved	Chris Brittingham
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Table of Contents

Purpose

The purpose of this document is to establish the application/data integration standards for enterprise data and application integration services for all agencies when data needs to be shared between two applications and the agency has not previously identified an application integration solution and is not currently using an application integration solution.

Owner

N.C. Department of Information Technology – Middleware Team

Scope

This standard is applicable to all state agencies and vendors and supports the approach to establish a unified data integration strategy.

The standard is also applicable to any technical requirements providing application data integration, message brokers, or any other means of interaction with applications.

Standards

New Agency Application Implementations

New agency application implementations are subject to the requirements of this standard:

1. Agency applications requiring application interfacing are recommended to use the Boomi application programming interface (API) gateway* for data integration services when a data integration solution has not been identified and is not currently in use.
2. All agencies must use the Boomi API gateway and its management capabilities to manage APIs when an existing data integration solution does not exist.
3. The Boomi API gateway affords the opportunity to establish a library of shared APIs between applications for the enterprise.
    a. It is recommended that all API developers (vendors, contractors, employees) seeking an interface between applications look to existing shared APIs within the NCDIT Boomi API catalog to find a solution.
    b. To improve API sharing between applications while developing new APIs, the API design must be reviewed by NCDIT Enterprise Architecture and shared with the Enterprise Security and Risk Management Office, the Office of Privacy and Data Protection, and the Data Division prior to being published to the NCDIT Boomi API catalog.

   c. It is recommended that the API owner adds the API to the NCDIT Boomi API Catalog. Once added, the API owner controls who the API is shared with within the NCDIT Boomi API catalog.

* Features and benefits of the Boomi Platform can be found in the [References](#)

Existing Agency Application Implementations

Existing agency technology solutions that utilize data integration services/capabilities other than Boomi do not need to rewrite their data integration to incorporate Boomi.

Existing agency technology solutions that utilize data integration services/capabilities other than Boomi and are undergoing modernization are recommended to:

1. Use the NCDIT Boomi API gateway for integration and full API lifecycle management when a data integration solution has not been identified and is not currently in use.
2. Use API based integration instead of file-based batch integration, when feasible.

Roles and Responsibilities

NCDIT Application Integration Platform Service Owner

The NCDIT Application Integration Platform Service Owner is responsible for managing one or more services for agency consumption throughout the entire lifecycle, including applications supporting delivery of the service(s).

Application Owner

The application owner is responsible for managing the application throughout the entire lifecycle.

Regulations and Applicable Laws

The following reference sections in the N.C. General Statutes provide additional information with respect to compliance of state law:

- [N.C.G.S. § 143B-1320](#)

- [N.C.G.S. § 143B-1321](#)

- [N.C.G.S. § 143B-1325](#)

- [N.C.G.S. § 143B-1350 (a)](#)

- [N.C.G.S. § 143B-1370 (a)](#)

- [N.C.G.S. § 143B-1376](#)

- [N.C.G.S. § 143B-1377](#)

- [09 NCAC 06b.0701](#)

Standard Review Cycle

The Application/Data Integration Standard will undergo a periodic review at annual intervals, or as changes are required.

Any identified changes, or outdated information within the standard will be addressed promptly. This may involve revisions, additions, or removals as needed to ensure that policies remain current and relevant.

Definitions

Application Programming Interface (API)

API stands for application programming interface, which is a set of definitions and protocols for building and integrating application software.

Enterprise API

API that is leveraged across agency divisions/sections or across agencies.

File-Based Batch Integrations

File-based batch integration allows data to be moved offline at scheduled periods of time between different data sources without necessarily connecting directly to them.

NCDIT Boomi API Catalog

NCDIT Boomi API catalog is a library of enterprise APIs, that allows users to strategically manage, promote, and share APIs with relevant applications, developers, and end-users.

References

Boomi Platform Information Page