



OpenAPI Use Cases

Bulk Data Imports Done Right

- Batch corrections (e.g., recode a district, fix owner codes, update route data, LRS) via API instead of SQL
- Every change gets history tracking automatically — who, what, when, old value
- Business validations and SNBI rules run on every write, so bad data is rejected instead of silently landing in the database
- No schema knowledge needed, and no "restore from backup" conversations after a bad UPDATE statement
- Every integration gets its own user account with permissions and write history

Build Your Own Data Pull, No IT Ticket

- The API documents itself through OpenAPI
- Point an AI assistant at the spec, describe what you want
- Get a working Postman collection or a self refreshing Excel query
- "Give me all bridges with NBI condition ≤ 4 in District 3, into Excel" becomes a 10-minute task, not a request to IT
- Non-programmers get self-service data access; the API's permissions still control what they can see
- Read only credentials, no database access handed out
- Start today at the AASHTOWare OpenAPI Developer Portal

Inspection Program Automation

- Sync schedules and assignments with your workforce system
- Push due dates into calendars and field apps
- Pull photos, sketches, and reports for a rehab design package
- Critical findings feed straight into a work tracking system

Load Rating Round Trip

- Rating software pulls geometry, spans, and element condition
- Engineer rates in their own tool
- Finished rating factors post back into BrM
- No spreadsheet handoff, no retyping
- Rating date and inventory/operating values land as tracked events

Route and Asset Management Sync

- One query returns bridges with their related records
- Filter by district, route, owner, condition
- Codes come back as readable names, not raw values
- Paged results, so a statewide pull is safe
- Feeds GIS layers and linear referencing systems

Enterprise GIS and Asset Management Sync

- Nightly sync of bridge locations, conditions, and postings into the agency's GIS or enterprise asset system
- One source of truth: BrM stays authoritative, other systems consume
- Powers executive dashboards, statewide condition maps, and MAP-21/performance reporting
- Emergency response gets current posting and condition data in the tools they already use

Update OS/OW Permitting System

- Daily update of bridges
- Posted
- Clearance
- Bridges need load rating

