AASHTOWare Bridge Integration through Web Services

RADBUG Meeting, 2019

What? Why? How?

- Funded by the AASHTOWare Research, Innovation, and Product Improvement (RIPI) Program
- **Redesigned data linkages** through industry standard Representational State Transfer (REST) web service APIs
- **Phase 1** complete with BrM 6.0 release
  - BrM REST web service endpoints ready for consumption!
- **Phase 2** planned for completion with BrDR 7.1 release in 2020

Redesigned data linkages

- Existing Bridge Integration is a highly coupled solution requiring agency to merge BrM database with BrDR database
  - Both BrM and BrDR access the integrated database in production environment
- The redesigned data linkages provide a set of RESTful services that can be connected to from anywhere via HTTPS
  - No longer needs to merge databases, information exchange is on-demand

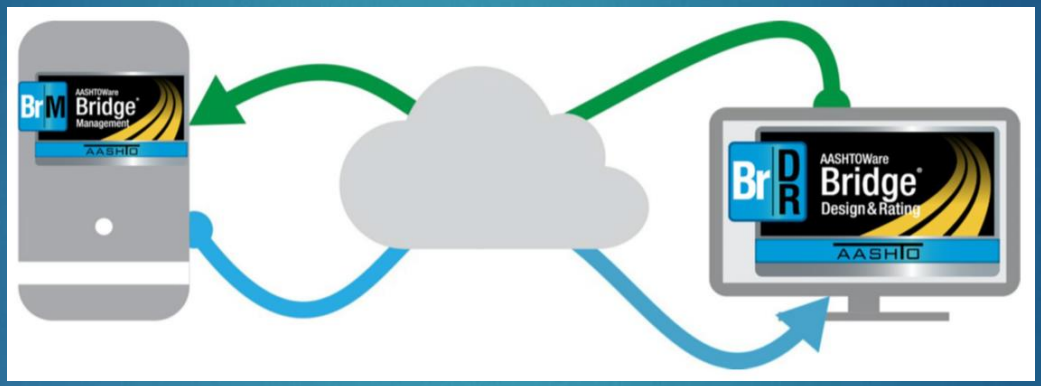
Phase 1

- Implemented BrM REST web service API utilizing the latest Microsoft Web API technologies
- Provided endpoints to BrM database tables for performing create, read, update and delete (CRUD) operations
- Additional endpoints for dynamically updating database tables
- Each endpoint contains additional functionality for specific business operations

Phase 2

- Will implement a REST web service client within BrDR to consume the REST web services provided by BrM
- All existing Bridge Integration features will be provided
- Existing "Update BrM Rating Results" feature will be enhanced to support BrM Load Rating Module
- BrM NBI rating will be available in BrDR for timely and accurate decisions on performing load rating

Questions?


AASHTOWare
Bridge
Management
AASHTO
AASHTOWare
Bridge
Design & Rating
AASHTO