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General Information – Meeting of the Bridge Task Force

Date: Thursday, September 14, 2017

Participants:

AASHTO	Judy Tarwater	AASHTO	Project Manager
SCOA			
T&AA			
BrM Task Force	Eric Christie	Alabama DOT	Vice-Chair
	Beckie Curtis	Michigan DOT	Bridge Management
	Mark Faulhaber	Kentucky TC	Bridge Management
	Craig Nazareth	Rhode Island DOT	Bridge Management
	Bruce Novakovich	Oregon DOT	Bridge Management
BrDR Task Force	Todd Thompson	South Dakota DOT	Chair
	Dean Teal	Kansas DOT	Bridge Design (BrD)
BrM Contractor	Josh Lang	Bentley	Bridge Management
	Josh Johnson	Bentley	Bridge Management
	Zac Boyle	Bentley	Bridge Management

General Discussion

The meeting was convened at 8:00am.

Agenda Item 00: Review Agenda / Assign Minutes Recorder

The AASHTO Project Manager will take the meeting minutes. The agenda was reviewed and a new agenda item was added to discuss products on the market that are known to be in competition with BrM.

Agenda Item 03: BrM Market Competition

Agenda Item 01: Prior Business

1a. Review April Meeting Minutes (Handout AV-1a)

Minutes from the June 28 – 29, Task Force meeting held in Seattle, WA were reviewed. The meeting minutes were approved as-is.

1b. Review April Meeting Summary Minutes (Handout AV-1b)

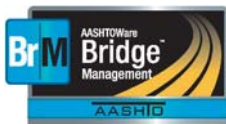
The Summary Minutes for the June Task Force Meeting in Seattle, WA were reviewed. The Task Force approved the summary meeting minutes as-is. These will be forwarded to Paul Cooley for distribution to the BrMUG members.

Agenda Item 02: Project Update

2a. Budget and Schedule (Handout AV-2a)

FY18 BrM MSE

Bentley presented the budget report for the FY17 MSE contract. All billings reported include invoices issued through 08/31/17. Most of the work to date under the MY18 MSE contract has been under TM1 (Project Management and Administrative Services) – 41%, TM2 (Customer Support) – 27%, TM3 (Maintenance Services) – 15%, TM6 (Task Force Directed Tasks) – 15%. The overall budget spent to date is little bit ahead of target – 10%.



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The portion of the MSE maintenance budget may need to be increased in the future based on the number of versions that will need to be kept current in the future.

FY17 BrM 5.3 Project

The BrM 5.3 project is complete.

2b. Customer Support Statistics (Handout AV-2b)

Bentley presented an overview of the customer support hours by agency for FY2018. Agencies with the highest support levels (over 25 hours) include Alaska and Virginia. Alaska has had some turnover in their IT staff causing the need for additional support from Bentley. Virginia has had a lot of discussion with Bentley on the details of the optimizer. Virginia also wants additional information on the LCCA. VDOT comments will be added to the draft LCCA FDS.

2c. Service Unit Status (Handout AV-2c)

Bentley presented the service status report as of 08/30/17. In general, a majority of the service unit projects are on track. Two (2) projects, Massachusetts and New Hampshire were placed on hold at the request of the agencies.

2d. License Revenue Report (Handout AV-2d)

The AASHTO Project Manager provided a summary of FY18 license activity (and revenue) as of 08/30/17.

2e. Service Unit Report (Handout AV-2e)

The AASHTO Project Manager provided a summary of service unit activity as of 08/30/17.

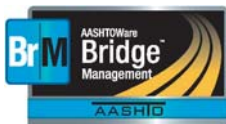
Agenda Item 03: BrM Market Competition

The SCOA has directed the AASHTOWare Project Managers to provide a summary competitive analysis of their current AASHTOWare products and recommend which product would be best suited for more in-depth competitive analysis by a consultant, in connection with one of the other recommendations. Based on a review of this summary at the October SCOA meeting, action may be considered on hiring a consultant to perform a more in-depth analysis.

The Task Force discussed the following products

- Deighton dTIMS
- Aventim
- Stantec.
- Agile Assets

The Task Force also discussed the fact that vendors are pushing to DOT administrations to move to a single asset management system for all their data.



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Agenda Item 04: BrMUG Debriefing

4a. Meeting Discussion / Feedback

Web Services Data Transfer (InspectTech/BrM) - The Task Force discussed ongoing issues with the synchronization process between InspectTech and BrM. Bentley has recently taken over the responsibility to resolve the data transfer issue between InspectTech and BrM.

4b. BrMUG Survey Results

No discussion

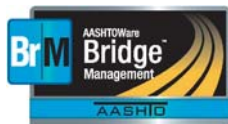
Agenda Item 05: BrM Enhancements

5a. User Priority Survey

Discussed under agenda item 4b.

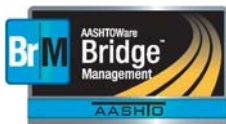
5b. BrMUG Voting Results

1. Technical Manual for Analysis - The User Group is requesting this action include all manuals plus web-based training and the development of hands-on workshops. Establishing an Education TAG was suggested.
 - Technical Manual – Bentley to develop an annotated table of contents for the Technical Manual. Craig Nazareth will Chair the Technical Manual TAG. A webinar will be held to go through the draft table of contents. The Technical Manual TAG will be established with members determined from those participating in the Technical Manual webinar.
 - Education/Training TAG
 - How-To Videos – Cross Section Module
2. Expanded Export Import Options – Streamline web services connection (deletes are tricky). The users have requested single platform specifications for BrM (BrM API).
 - Bentley to document the requirements, scope and level of effort required to support export import operations.
3. Clearance Tab – The User Group requested to see the final FDS with the database model.
 - Bentley to ‘dust off’ and present the current FDS to the user community via a webinar. Users will be asked to review and comment.
4. QA/QC Process – The users requested the Task Force seek input from the User Group
 - Users who voted for this item will be emailed to determine who will champion the effort. The group of folks who voted for the enhancement will develop a draft user requirements document for review by all members of the User Group.
5. BrM 5.3 Stable Version (Backward Compatibility) – Fix all bugs and issues back to 5.3 when new versions are delivered. The Task Force should develop a plan to provide information to all licensees on how far back bug fixes will be implemented in older releases. Patches should be used as often as possible.
6. Project Costing Tool – The User Group requested webinars be held on the Project Costing Tool. The User Group want to have more opportunities for input on the development of FDSs. States should champion each individual topic.
 - Users who voted for this item will be emailed to determine who will champion the effort. The group of folks who voted for the enhancement will develop a draft user requirements document for review by all members of the User Group.
7. General Dashboards – Dashboards could be developed to include a feature to export the data to Excel.



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8. BrM 5.3 JIRA Issues – The User Group wants to clean up the list of issues stored in JIRA. The Task Force reminded users that they need to ensure they follow the Bug Policy. (If a documented issue type is changed and the user believes the change is incorrect, the user should contact a member of the Task Force to discuss the issue.) A good number of the issues documented in JIRA are deferred. All JIRA issues should be reviewed and ‘scrubbed’ as necessary.
9. Multimedia Interface – The MultiMedia TAG has been meeting. When complete, the FDS will be forwarded to the User Group for review and comment.
10. Tool Tip Box turned into a Right Click
11. Track Historical Changes – Some states have already done this (KS, KY, VA)
12. LCCA to include a bridge level recursive analysis
13. Builder to allow combination of condition state percentages
14. Multimedia for multi-assets (tunnels) – This will be combined with the activities associated with the MultiMedia Interface effort.
15. More Utility and HI Functions - This will be discussed further during the October Task Force meeting.
16. Checkin/Checkout (DeIDOT) – Checkin/checkout worked in 5.2.1; however, it does not work in 5.2.3 or 5.3. The export profile defines the tables to be exported. In the KYTC implementation, some of the tables referenced are obsolete.
17. Maintain Primary Legacy Keys – Populated in the original tables. Triggers have to be applied. Template is provided to support the user’s implementation. (Three years ago it was decided, and discussed at the Users Group Meeting, the primary keys would not be supported going forward). Connecticut, Kansas, and Michigan continue to request the desire for BrM to continue to maintain primary keys in addition to the GUIDs. The sample trigger template for populating the old primary keys is available and will be posted in the Bentley Share File site.
18. Import Process – More detailed errors
19. Environments / Adjustment Factors for each element – The Database TAG should review and determine the best course of action. VADOT offered to develop a proposal. TX and VA voted for this issue as a priority.
20. 3D Inspection – MIDOT will likely pursue this enhancement via service units. KYTC is also interested in contributing funds to support this effort.
21. Work Candidates for Multi-Asset Tunnels – ORDOT will champion this effort. Bentley will develop a cost estimate. OR, CT, and ID voted for this issue as a priority.
22. Task Schedule / Scheduled Reports
23. Store Utility Values in Database
24. Ability to use Windows Authentication
25. Date of Improvement Change for Target Setting – Candidate for state funded service unit work.
26. User Tables in Formulas
27. Allow Multiple Report Writers, not just Crystal – Candidate for state funded service unit work.
28. Ability for Admin to see which users are logged in to the system – Candidate for state funded service unit work.
29. USERBRDG/USERINSP – New Inspection Granular Control
30. Elements as Linked Protective Systems - OBE
31. Optimization Made Multi-Asset – Candidate for state funded service unit work.
32. Fix Canned Reports – 30 reports are currently available in BrM; however, only 5 or so are actually being used. This will be discussed further during the October Task Force meeting. The Task Force will review the results of the Reports TAG Review and make decisions on which reports to keep.



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- 33. Make Elements Active/Inactive and not show on Orphan List
- 34. Provide via Services to Clear the Server Cache – Complete but still needs to be tested.
- 35. Capability to make Mapping Feature Read-Only
- 36. NBE/BME/ADE xml Upload, include in expanded export import options above

The Task Force discussed the future of BrM and the anticipated changes that will be required to BrM to support the requirements of the revised FHWA coding guide. In preparation for the coding guide changes, when the FHWA Coding Guide Draft document is released, the Task Force will direct Bentley to develop a high level scope and an order of magnitude estimate for what changes will be required to BrM to support the revised FHWA requirements.

At the time the Coding Guide draft is published for comments, agencies and AASHTO should all submit comments on the impact the revised requirements will have on the transportation agencies.

5c. RIPI

Regression Testing Tool Scope

No discussion. The Regression Testing Tool project(s) will be discussed during the October Task Force meeting.

Web Services Technical Plan

The AASHTO Project Manager received a response from the T&AA on 09/13/17. T&AA advised that conceptually, web services is the preferred approach to share data between systems. T&AA also conveyed that web services is the preferred approach to share data between all AASHTOWare products, and also between all AASHTOWare Bridge products and other systems in use by DOT's. T&AA advised that they are supportive of the BrM Web Services development RIPI proposal and, as Bentley defines the architecture and technologies of the data exchanges, as in the method to perform the integration and supporting details, T&AA would be glad to provide additional review.

In addition, T&AA provided the following feedback. T&AA -

- Recommends that multiple web services be used, with each contractor in charge of developing and maintaining the web service(s) associated with their individual product.
- Envisions that REST services will be the preferred approach for the described data retrieval/exchange.
- Suggests that before developing the web service(s), also consider any needs arising from the use of the data in a mobile environment or known needs by a DOT enterprise system – can the [same basic] service address more than simply providing a link between the BrM/BrR products. Admittedly, these needs may be found to better addressed via a separate web service(s) developed at a later time.

T&AA advised that they would be glad to offer additional comments if more detailed information is presented. They also suggested that the Task Force use to the AASHTOWare Web & Mobile Data Exchange Guideline (2.090.01.2G) as reference on deciding on the direction to be used when developing the bridge product web service(s).

Solicitation

No discussion.



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Agenda Item 06: BrM Mobile Update

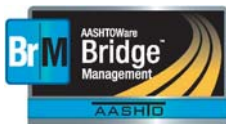
Bentley advised that the BrM mobile application being developed by Bentley will serve as a mobile solution for BrM users that use BrM as their primary source for bridge inspection data. The intention is not to replace any functionality for BrM users, but to provide a service that users have requested, and is not currently available within the BrM product. Bentley provide the Task Force with regular updates during quarterly meetings and bi-weekly conference calls as needed. Bentley plans to have screen shots completed for presentation during the October/November Task Force meeting. Bentley is hopeful that the Task Force will approve the inclusion the Bentley Mobile app as a BrM Add-On Application in the FY2019 AASHTOWare catalog. Bentley anticipates that the mobile application will be ready for early adopters in early calendar year 2018.

Agenda Item 07: Review Action Items

The AASHTO Project Manager reviewed the action items recorded during the meeting.

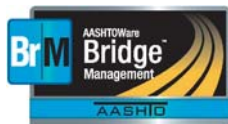
Agenda Item 08: Executive Session

The meeting adjourned at 3:30pm following a brief Executive Session.



Attachment A: Listing of Bridge Task Force, TRT, TAG and User Group Personnel

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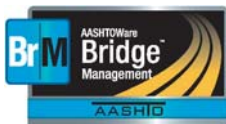


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BrDR Modernization TAG

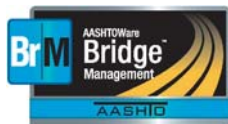
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BrM Database TAG – At Large Members

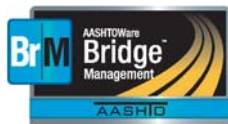
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