

AASHTOWare Bridge Management (BrM) Task Force Meeting Minutes
September 17-18, 2015
Rapid City, SD

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Notes from The BrMUG Meeting

AASHTOWare Bridge Task Force Update (Eric Christie)

Following the presentation to the User Group, the following issues were discussed.

- Jose Aldayuz – Is there a plan for an updated user manual?
 - Yes, Bentley is working on it
 - The TRT team is trying to decide on what the right mixture of documentation is (ex. Web help v. user manual v. quick worksheets)
- Richard Kerr – It appears as though the performance issue occurs when there is a less than 15 people
 - The task force is aware of this issue and is working through different scenarios
- Paul Jensen – In 2005-2006, there is a specification that said that the database will handle 50,000 bridges, 20 users and 30 seconds max time retrieval of any screen.
 - Todd – It looks like that requirement was dropped by the time InspectTech inherited the documentation. Eric and Todd have been talking about incorporating this type of guideline in future contracts
- PennDOT – There's a sibling product that came out with BrM, Visual Element Migrator. Is there any plan for updates on this front?
 - An update was released fairly recently for the Element Migrator
- NJDOT
 - Have been in a major transfer from Windows XP to Windows 7. In the 64-bit version of Windows 7 they were able to run the Migrator successfully without issue
 - BrM 5.2.1 SP2 – They're currently in the progress of migrating from Pontis 4.x to 5.2.1. It removes spaces for bridge names with spaces in front of them. Is there any way that we can expedite that.

AASHTO Update (Judy Skeen)

Following the presentation to the User Group, the following was discussed.

- Paul Jensen – next year when we do the survey, when we have the virtualization question – have a follow-up question about what type of virtualization is being performed.
 - Judy – Please send me an email and I'll add it for next year.

Bentley 5.2.1 Interactive Training Session (Jeremy Shaffer, Josh Lang, and Chris Meredith)

- Is there a plan to come up with a pathway to migrate from Oracle to SQL?
 - Chris – We've gone from Sybase to SQL and Sybase to Oracle. There are a lot of tools out there to assist in the migration. Both Oracle and MS have "official" conversion tools, however there will be some work on your end – it isn't straightforward.
 - Josh – Please reach out to us if you're doing a production Oracle to SQL conversion. We haven't been involved but would like to be and document it to aid in future migrations.
- Paul Jensen – The original vision document had some other things that seem to go by the wayside that were high priorities. One of those was the integration with the document management systems and report writers of choice. It seems like there have been a number of lost requirements that were in the original document that should be considered for reintegration into the future development of the software.
 - Jeremy – I don't know if I have ever received this document. We'll need to meet with the Task Force and determine how to move forward.
 - Eric – Remember, we showed you the highest priorities out of last year's meeting and how we're attacking these items. If these things from 10 years ago need addressed please bring them up and we'll add them to the list.
- Paul Jensen – When doing a deck replace, shouldn't you have parent, child, and grand-children items copied



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- Eric – We can talk about this further.
- Pradeep – Work candidates are for inspectors. Benefits groups are for admins?
 - Inspectors must ask admins to create groups.
 - Inspectors can add work candidate costs.
 - Actions cannot be created or associated with Benefit Groups by Inspectors.
 - Work Candidate costs override the Benefit Group costs assigned.

5.2.1 Success Stories

Eric Christie Presentation on Alabama DOT Customizations to BrM

- What do we have to do to get the items presented by Alabama included in BrM?
 - Some members indicated that they want the Headers and Rating list specifically
 - Others exclaimed “I like it all”

Zach Boyle Presentation on Activities in the Utah DOT

- Mike Johnson – We’re having an issue with what notes should be copied forward from a previous inspection when the previous inspection is not related.

5.2.2 Concepts

GUIDs/Database Conversions/API

- Will Bentley have a list of which fields are affected?
 - Yes, Bentley has a list – it is about 30 or so.
- When will Bentley be able to provide the documentation regarding the API?
 - It’s currently in draft with the TRT but we can send it now for you to get an idea of what is coming.
- Will API calls ever be deprecated?
 - It’s highly unlikely, however, if it happens we’ll give you plenty (1 year+) notice

Project Planning

- Can you lasso bridges on the map screen?
 - No, you must select them bridge-by-bridge for now.
- Will Completed Projects still be visible?
 - Yes, but you can filter them out if you would like to.
- Can you see a bridge’s work history? Accomplishments?
 - Not currently.
- If an Inspector Work Candidate is part of a project and the project has been marked completed, will the software mark the Work Candidate as completed?
 - Currently, they are not linked. If you completed the work it will require someone going out and make the changes to the work candidates completed in the project. Should it cascade through?
 - The user group said “Yes” it should cascade through.

Deterioration Modeling

- Paul Jensen – Shouldn’t the protective system be a function of its condition state and not some factor you’re putting in there?
- David – I see a lot of output on individual bridges. What if you want to see bridge impact by district or network 15 years from now?
 - In 5.2.2 it will be individual bridges. 5.2.3 provides this functionality.

New Inspection Process

- Long – The dropping of the previous inspection date – Will you be removing the database field?
 - We’ll either add a new column or repurpose the existing column.
- Mark – On the migration from 5.2.1 to 5.2.2 will there be a routine that will fill in the blanks of the newest inspection?
 - We do not have a conclusive answer. The details are not ironed out.



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- Bruce – I noticed that you still have 1901 for a date. Is there anything changing that enables us to leave it blank?
 - Because of the '1901' usage, we still allow it, but we're going down the route of allowing NULLs in the database.

User Group Concerns & Priorities - Task Force/Bentley Meeting (Wednesday Afternoon)

64-bit/Multiple Concurrent Users

- Jeremy – With dates being a concern we need to continue looking at necessities v. niceties.
 - Eric – I'm of the opinion, and hearing the same, that people would prefer delaying this to include the features.
 - Bruce – We should never lose sight of the people with the torches and pitchforks
 - Ex. Multimedia Uploader
 - Should either:
 - Create a new folder for bridge\inspection\images
 - Rename images automatically with unique names
 - Ex. Condition states not adding up to 100.
- Josh – Recommends that we create a 5.2.1 SP3 to specifically resolve this issue.
- Judy – What is this going to do to the schedule for 5.2.2?
 - Josh – From a DEV perspective, converting to 64-bit isn't that hard, but the testing is intensive. Switching to the 64-bit ODBC drivers is the area for potential concern.
- Judy – Is the 64-bit conversion going to fix the multiple concurrent user problem?
 - Jeremy – It will increase the capacity of the server.
 - Eric – By how much?
- Todd – What is using up all of the memory now?
 - Josh
 - 5.1.0.3 – Baker was tasked to speed up the app – stored things in session. We've been working on eliminating it, but it is spread throughout the software
 - Jeremy – This all goes back to making recommendations to the DOT on system specifications
- Jeremy – Solution could be multiple application servers
 - Mark – That is what I'm hoping to be able to get away with, but I'll need SP2 right away.
- Bruce – If you did 2 and then did 3 would there be any time delay as opposed to doing it with SP2?
 - Josh – Given the unknown nature of 64-bit testing, I would prefer to roll out SP2 and do this as another release.
 - Mark – SP2 is far less buggy than SP1
 - Bruce – If it is going to take 4 mos from today,
 - Josh – SP3 will not start until SP2 is released.
 - Eric – What if we tell the testers to get through it as best they can and anything that pops up is included in SP3.
- Eric – When we were doing the dashboards the users expressed that they do not want that to get in the way of the core product development.



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- Jeremy – At lunch, they were talking about the Tunnel standards and the feeling was the same way.
- 5.2.2 – to be released to the TAG ahead of time – Pre-Alpha
 - Judy – When will that be released?
 - Eric- Pieces will be rolled out piecemeal.
- When will SP2 be done?
 - BETA2 – Josh – Release week of September 22
 - Release – Target end of October
- SP3 – Target: November
- All of the ODBC driver work required for 64-bit will be removed when we go to 5.2.2

Documentation

- Josh – There's a TRT group for this. We need to follow up with Karen Reimer
- Was the rewrite of the documentation for 5.2 included in the work plan?
 - 5.2.1
 - 5.2.2
- Webinars v. Documentation v. User Manuals v. Technical Manual v. Administrators Manual
 - User Manual – Cookbook, How to
 - Administrator Manual – What it does & How to change it
 - Technical Manual – Installation & Troubleshooting
 - Install Guide
 - Web Help Manual – Links to the User Guide
 - Webinars – Overview for how to do it.
 - Possible Resources
 - Tech Writer Contractor
 - Allen Marshall
 - Hire new team member
 - Eric – Bentley needs to make a suggestion and the Task Force will go back to the TAG
 - 1 Manual with subsets?
 - How to use it
 - How to manage it
 - How to install it
 - What to do if it falls over
 - Mark – A lot of his JIRA tickets ask for the place in the User Manual to understand how it works
- Repurpose Bruce and Eric's already written documentation as a starting point
 - Definitions
 - Wiki-type approach
- User

Metric/English Conversion

Some users are worried about dependencies on the data no longer working

5.2.3 Schedule

- Derek – Executives are going to be asking for Asset Management
 - Jeremy – Georgia is one of the states that went to a competitor and are not finding it to be working out well
- Judy – Educational License
 - Drexel University



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- Josh – there is a 55 bridge sample set that they can use. In the next release the entire Idaho inventory will be in there
- Eric – Ask them to provide a syllabus and how this software might fit into the training
- Jeremy – Tell him to talk to PennDOT
- Mark – Are there any homeland security guidelines on what can be put out v. what cannot?
 - Derek – the whole NBI is now available
 - Mark – Given that we should talk to Idaho
 - Josh – We’ll do that.
 - Jeremy – I guess that could be the same as the trial license
 - Judy – Evaluation license is good for 120 days and 55 bridges
 - Josh – We can limit to the number of logins
 - Judy – Educational – 55 bridges and it expires on the next subsequent June 30.
 - Josh – No. But we can do that.
- Beckie – We should be talking about doing the TRTs for 5.2.3 now.
 - Mark – Each TRT has an assigned contractor to push them. If you have a functional spec for a UI design, there’s a whole lot of people that would jump to be on the TRT. When we first started out I know that there was a fear about the TRTs going rogue, but I don’t think that there’s much danger.
 - Josh – Initially we were told that we were not to be involved unless the TRT asked us to participate. Starting next week, Rob will be taking the lead on getting this started.
 - Mark – It’s your job to get this delivered.
- Service Unit work
 - Rick: We can include this in our monthly status report
 - Rick can potentially use the new status report document that we’re going to be using for BrM product
- For tomorrow, let’s talk about the database TAG, API, Service Unit work, TAGs & TRTs being able to attend this meeting, Bringing the Testing TAG back to Pittsburgh for a 5.2.2 testing release (January).

BrMUG Voting Results

User Group Officers

- President - Scott Choate (LADOTD)
- Vice-President - David Coley (SDDOT)
- Secretary - Zachary Boyle (UDOT)

Future BrMUG Meeting locations

- 2015 - Utah
- 2016 - Texas
- 2017 - Virginia
- 2018 - New Mexico
- 2019 - Kentucky

Prioritized list of Concerns and Recommendations

- 32 users voted

Vote	Item	Discussion
29	Online help for version 5	The group is disappointed in the up to date nature of it. Perhaps a downloadable PDF? The help for the program needs to be prioritized.



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		<i>There will be a task force meeting tomorrow to discuss this and the next item. This is something that is very present on that Task Force mind.</i>
29	Better documentation (User guide and Installation guide)	
28	Implement Alabama customization as an option	<p>Would like to see Alabama’s customization included in the software</p> <p><i>I see no problem with this implementation. This can be a Tab or a Task and you can choose to include, or not include, in the software. Is anyone opposed to changing the header to being what is in Alabama?</i></p> <p>No opposition.</p>
25	Better QC/QA on contractor	<p>More comprehensive Alpha testing</p> <p><i>Bentley recognizes that this is a problem. In the more recent versions we’ve improved. Our current FDS documents are more comprehensive. We just had our annual QA Meeting and are revising the process. We have a dedicated QA person. We’re looking into automated testing. If you guys see issues, report them.</i></p>
22	Better error handling	<i>Yes. We want it to fail gracefully and provide more thorough explanations of issues. One of the security enhancements that we did to cause certain states to fail security audits – we had to hide a lot of the information.</i>
21	We want to keep inspkey on Inspection screen	<i>We will keep it.</i>
19	64-bit rewrite	<i>The Task Force has discussed this with Bentley and we are looking into the different scenarios. We’re not sure yet, but are looking at a separate 5.2.1 SP3 release that will be 64-bit.</i>
19	AASHTO to host TAG and TRT members at the User Group Meetings	
17	AASHTO BRIDGEWare website needs to be kept up to date	Someone checked and it said “Coming soon, v. 5.1.3”
16	Need to include SHV Load Ratings now	<p>SHV = Special Hauling Vehicles Federally required.</p> <p><i>This is basically just another vehicle field. What do you want? We can look into adding some fields to capture some SHVs. There may be some additional items later that will go along with that.</i></p>
13	Better Oracle support	<p>It seems as though the system is being worked in SQL server and then being checked against Oracle. It seems as though that an Oracle DB is more problematic than SQL. Since 2/3 of the users are using Oracle, this should be better supported.</p> <p><i>Oracle creates an ODBC driver because they have to. If you do the same database in Oracle and SQL, Oracle is definitely slower. In 5.2.2 we’ll be abandoning the reliance on ODBC drivers.</i></p> <p>Does Bentley have a full blown version of Oracle to test against?</p> <p><i>We’re working internally to get a newer server to do more actual development. Moving forward ½ of the development will be in SQL and Oracle.</i></p> <p>Is it Oracle XE or full-blown Oracle?</p> <p><i>It’s the full version.</i></p>
13	More stress testing	<p>25 user mins with reported results</p> <p><i>Lesson learned this year. Going forward this will be part of our testing.</i></p> <p>Is it automated stress testing or 25 users?</p>



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		<i>Bentley to look into automated stress testing tools.</i>
11	Slow down on modeling and analysis project planning and focus on performance inspection	<i>This is a constant juggling act and we will continue to monitor and improve upon this whenever we can.</i>
11	Change log – connected to JIRA issues (log of resolved issues)	<p>Whenever you come out with an update or a service pack include whatever is changed or fixed.</p> <p><i>We recognize this. The end goal is that projects will be related with every release. All of it will be traceable. 5.2.1 SP2 will be a little sloppy. 5.2.2 will be most of the way there. Moving forward it will be 100% traceable.</i></p>
8	Can we get Crystal Reports 2013 ASAP	<i>5.2.1 SP2 is a conversion to 2013. Request it from us and we'll send you the license key. Email BRM@Bentley.com. Eric to resend out his update.</i>
5	SharePoint hosted site for TAG	
1	Auto name files during uploading for media files	
	Not every bug is an enhancement request	<p>Is there a procedure to have the Task Force analyze what is a bug v. what is an enhancement?</p> <p><i>We're seeking the approval to complete work. We don't draw the distinction between the two. The only difference are the bugs that are critically broken. If a bug should trump an enhancement every single time then we can do that.</i></p> <p>Example: Every form, when you make a change highlights itself in yellow except for when you get to the security page for reports. In my opinion, that is a bug, but it was changed to an enhancement request.</p> <p><i>That is a bug.</i></p>



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Meeting of the Bridge Management Task Force

Participants:

AASHTO	Judy Skeen	Project Manager	Bridge
BrM Task Force	Eric Christie Beckie Curtis Mark Faulhaber Thomas Martin Bruce Novakovich Derek Constable	Alabama DOT Michigan DOT Kentucky TC Minnesota DOT Oregon DOT FHWA Liaison	
BrDR Task Force	Todd Thompson Dean Teal	South Dakota DOT Kansas DOT	
BrM Contractor	Jeremy Shaffer Josh Lang Rob Schultz Rick Wagner	Bentley Systems, Inc. Bentley Systems, Inc. Bentley Systems, Inc. Bentley Systems, Inc.	
Visitors	Paul Cooley	CalTrans	BrMUG Representative

Notes Taker: Rob Schultz / Judy Skeen

TAG Activity Discussion

Testing TAG

The BrDR Testing TAG will perform SP2 testing in Pittsburgh in January. The beta should be released at the end of January or the beginning of February. The test plan needs to be provided to the users in advance of the testing meeting. The attendees also need to be provided with the design document and possibly the alpha script in advance of the testing meeting.

Database/API TAG

The document currently serves as both an API and an SDK document. These activities will be rolled into the Database TAG responsibilities. Members of the TRT API TAG will be invited to join the combined Database/API TAG.

Database/API TAG - Need to re-establish controls on database changes to allow the TAG to weigh-in. Paul Cooley suggested establishing monthly or quarterly meetings to discuss potential changes to the database. The TAG needs to provide feedback to Bentley on all proposed changes to the tables. The tables that are being used outside of BrM need to be documented. The goal with the API is to lock down the database so users do not have to modify the database directly

Thomas Martin will assume the position of the Chair of the Database/API TAG.

The Reports TAG is no longer active and can be dissolved.

The Inspection TAG will sunset with the release of 5.2.2.



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5.2 TRT

The TRT is a unit of the Task Force. All TAGs are led by a member of the BrM Task Force. A Bentley analyst should be assigned to each of the TRT groups.

Task Force discussed TRT and TAG expense reimbursement for BrMUG meetings. The Task Force made the decision to review and approve requests for TRT/TAG member travel on a case by case basis. (Funding for additional BrMUG travel could be considered based on the TRT component of the 5.2 Project solicitation.) The Task Force will continue this discussion during the October Task Force meeting.

Quarterly Task Force Meeting Agenda Content

The Task Force discussed the possibility of addressing administrative items during the bi-weekly Task Force phone calls rather than during the quarterly meetings. (i.e., budget, Status of Service Unit Work, Support Hours expended)

Status of 5.2.1 SP2 and SP3

SP2 Beta 2 should be released for testing the week of September 22. The Bentley team has compiled a very early version of the 64-bit version of the software. Using this deliverable they will begin working with FLDOT to address the problems they are having with the number of concurrent users. This compile will be the beginning of SP3. The SP3 release will be contingent on resolving the multiple user issues in Florida. SP3 will focus on the 64-bit delivery and will not contain additional functionality enhancements.

If the SP3 direction does not resolve the problem, we may have to wait until the release of 5.2.2 to address the issue. Based on a user request, Bentley advised that a “hack” can be provided to exist outside of SP2 or SP3 to allow users to include a date/time on a custom form in Oracle.

Additional Discussion on BrMUG User Issues and Priorities

Online Help and Documentation

- Bentley was asked to provide the task force with a game plan on how to tackle documentation. The Task Force will then take recommendations to the TRT.
- Beckie – Users should be provided with a hand out to follow along with during the Live training sessions.
- Todd – The interactive session was more of a demo instead of an interactive session
- Eric – There were so many people that felt it was a good discussion, but will not be able to reproduce it back in their offices.
- In the future, Bentley will hand out a script to go with live demonstrations.
- Josh – Based on the user responses, they wanted Web Help to be different from the User Manual
 - Is there a need to do this? If they really need good web help then maybe the user manual needs to evolve to meet this.
- Mark – If the installation manual called out the security changes that are necessary, the security guys would be fine with it.
 - Bentley to update the manual to ensure that its complete.

Incorporation of the Alabama DOT Customizations

- There was a lot of heavy customization on the ratings page.
 - The basic framework will be there for the rating history but they’d have to come in and add specific agency fields



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- As part of 5.2.2 you will be able to add Agency fields to core pages.
- Josh – I would like to do it, but as we get close to the end of 5.2.2 development we can evaluate it.
 - Right now, when we're adding new custom forms they are built as implementation forms. They do not follow the existing framework. In order to do it we'd have to convert it over to GUIDs and do additional overhead.
 - Bentley to provide an estimate to get this implemented.
- Mark – we had spoken about making the Inspection more modular.
- Bruce – If I burn up Service Units to get a customization. When the next version comes out do I lose my customization?
 - Josh – Depending on what the customizations are, yes (more prevalent in work done before 5.2.2).

QA/QC by Contractor

- Eric – We must make sure that it is definitely a BETA version by the time it makes it to the Testing team.
- Josh – A lot of the Beta testing bugs are items that were pre-existing and not a part of the items changed during the development
 - There are a number of bugs in our internal QA JIRA bucket. Many of them are old. Do we want to work on new features or bug resolution
 - Eric – It's a balancing act.
 - As Bentley starts work on a specific screen/module examine what it is that exists for bugs and add them to the work to be completed.

Keep the INSPKey on the Inspection Screen

- Bruce – They might not understand that you're not going to be able to use it.
- Eric – Thomas, we need to go back to the Database TAG to make sure they understand it and its potentially a re-education piece.

Update the AASHTOWare Bridge Website

Need to include the SHV Load Ratings

- Eric – I don't think that it is a big deal to add that to it.
 - Josh – can someone send us information about that?
 - Eric – Basically we need to add 4 fields to there:
 - SU4
 - SU5
 - SU6
 - SU7
 - NRL
 - Eric – This is spelled out in the AASHTO Manual
 - Jeremy – It's relatively simple for us to add a field – This is a red table.
 - Derek – These do not go into the NBI
- Bentley to add those fields in there. Inspection > Appraisal NBI Load Ratings > SHVs > Operating in 5.2.2
 - Will need to modify the existing Crystal Reports as well

More Stress Testing

- Mark – Does Bentley own any automated testing software?
 - Josh – Load testing is done manually currently, but we do have automated testing software. Our demo site is not on a full production box.
 - Mark – What do you consider a production-level box?
 - Josh – That depends on the user-load.



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- Mark – Our production VM is 4-core, 8gb
- Josh – AASHTO is paying for our server.
- Confirm with Josh about our system specifications document – Should we revise it to include user load?

Crystal Reports 2013

- The Task Force discussed opportunities to ensure all end user designees receive product update information.
 - Todd – The Task Force update emails goes out to a large population of users.
 - Mark – The answer to how do I find out about it is to go to Cloverleaf.
- Jeremy – We used to post the update emails on the web.

Structure Units

- Bruce – It can take ages to load a structure screen because he has a bunch of elements.
- Jeremy – We're going to have to live with it for now.

Status of Service Unit Work

- Alabama and Kentucky are currently the biggest users of service unit work. Both of these efforts are near completion.
- This type of summary (Rick's spreadsheet) should be provided in the monthly status report
 - Mark – Is it too much to ask for:
 - Resources assigned
 - SU budgeted
 - SU used
 - SU anticipated
 - Beckie – I would like to see call outs for features that may be of interest to other agencies
 - Josh – We try to keep this in mind, but will continue to keep track of things that have been integrated and can demo at the Task Force meetings
 - Thomas – Type of implementation (ex. VM, Oracle, etc.)

Rick Wagner presented the following status report on active service unit work.

Agency	Category	Contact	Project Type	SUs	Comp Date	Status	Notes
Alabama DOT	Active	christiee@dot.state.al.us	5.2.1 Upgrade w/ Customizations	36.75	Nov-14	Working to install BrM on Training Server. On site Production install planned for early November.	Bulk of development work is complete. Working with agency to ensure successful implementation.
Alaska DOT	Active	john.orbistondo@alaska.gov	2014 Support/Upgrades	4.00	Dec-14	Client reviewing 5.2.1 on Demo site. Onsite production install planned for October 6-10.	Development work complete.
KYTC	Active	mark.faulhaber@ky.gov	Upgrade w/ Customizations	22.00	Nov-14	Working with agency to define upgrade process. On site production install scheduled for September 26-	Bulk of development work is complete. Working with agency to ensure successful



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						30	implementation.
Manitoba	Active	Jan.Barak@gov.mb.ca	BrM Implementation w/Customizations	8.00	Mar-15	Project Kickoff meeting being scheduled for September 25	Agency not using AASHTO Service Units.
MassDOT	Active	costas.manousakis@state.ma.us	5.2.2. Planning and Analysis	6.00	Jan-15	Initial review of Pontis 4.x database complete. Onsite analysis meeting scheduled for October 28	Analysis only
New Jersey DOT	Active	Harjit.Bal@dot.state.nj.us	5.2.1 Upgrade w/ Customizations	13.00	Oct-14	Agency testing customizations and migrated data on Demo site. Data transfer with InspectTech in progress.	Development work complete.
TxDOT	Active	tom.yarbrough@txdot.gov	5.2.1 Implementation	8.00	Dec-14	Hosted BrM site is set-up on Bentley servers. Allen Marshall working with agency on Element Migration.	Bulk of work being completed by Allen Marshall
VDOT	Active	richard.thompson@vdot.virginia.gov	5.2.1 Upgrade w/ Customizations	7.50	Nov-14	Allen Marshall working with agency on Element Migration and 5.2.1 upgrade.	Bulk of work being completed by Allen Marshall
Richmond Metropolitan Authority	Active	theresa@the-rma.org	5.2.1 Hosted Implementation	1.00	Oct-14	Set-up of BrM 5.2.1 on Bentley servers is in progress.	Minimal development work needed.
City of Phoenix	Proposal Approval	juan.giron@phoenix.gov	5.2.1 Upgrade	1.00	Oct-15	Working with agency on PO through Gannett Fleming due to issues with data access.	
Colorado DOT	Proposal Approval	gagandeep.masaun@state.co.us	5.2.1 Upgrade w/ Customizations	13.50	TBD	Client meeting on September 18 to review Work Plan	
Hawaii DOT	Proposal Approval	James.Fu@hawaii.gov	2015 Support	6.00	Dec-15	Final approval of 2015 Support/Upgrade Work Plan	Minimal development work needed.
Illinois DOT	Proposal Approval	Tim.Armbricht@illinois.gov	5.2.1 Upgrade w/ Customizations	3.00	TBD	Waiting on agency feedback on Work Plan	



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Louisiana DOTD	Proposal Approval	Scott.Choate@LA.GOV	5.2.1 Upgrade w/ Customizations	9.00	TBD	Agency has approved Work Plan. Need to submit NTP to AASHTO.	
DCDOT	Proposal Due	yared.tesfaye@dc.gov	5.2.1 Hosting	2.00	TBD	Project involves moving existing 5.2.1 site to Bentley hosted servers	Minimal development work needed.
MNDOT	Proposal Due	thomas.martin@state.mn.us	5.2.1 Upgrade w/ Customizations	TBD	Mar-15	Bentley to review agency provided database to develop work plan	

Meeting adjourned at 1:30pm.



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

<u>AASHTOWare Bridge Task Force</u>		
Thompson, Todd	South Dakota DOT, Chair	todd.thompson@state.sd.us
Skeen, Judy	AASHTOWare Project Manager	jskeen@ashto.org
Johnson, Bruce	SCOJD Liaison, Oregon DOT	bruce.v.johnson@odot.state.or.us
Ballou, Wally	T&AA Liaison, Kansas DOT	Ballou@ksdot.org
<u>Bridge Design/Rating (BrDR) Members</u>		
Dietsche, Joshua	BrR Wisconsin DOT	joshua.dietsche@dot.wi.gov
Olsen, Jeff	BrD, Montana DOT	jolsen@mt.gov
Saad, Tom	FHWA Liaison, FHWA Resource Center	Thomas.saad@dot.gov
Teal, Dean	BrD, Kansas DOT	teal@ksdot.org
Waheed, Amjad	BrR, Ohio DOT	awaheed@dot.state.oh.us
<u>Bridge Management (BrM) Members</u>		
Christie, Eric	BrM, Alabama DOT, Vice Chair	christiee@dot.state.al.us
Constable, Derek	FHWA Liaison, DC	derek.constable@dot.gov
Curtis, Beckie	BrM, Michigan DOT	CurtisR4@michigan.gov
Faulhaber, Mark	BrM, Kentucky Transp Cabinet	mark.faulhaber@ky.gov
Martin, Thomas	BrM, Minnesota DOT	Thomas.Martin@state.mn.us
Novakovich, Bruce	BrM, Oregon DOT	bruce.d.novakovich@odot.state.or.us
<u>Michael Baker Jr., Inc.</u>		
Duray, James A.	BrDR Contractor	jduray@mbakercorp.com
Lee, Herman	BrDR Contractor	hlee@mbakercorp.com
<u>Bentley Systems, Inc.</u>		
Shaffer, Jeremy	BrM Contractor	Jeremy.Shaffer@bentley.com
Lang, Josh	BrM Contractor	Josh.lang@bentley.com
Schultz, Rob	BrM Contractor	Rob.Schultz@bentley.com
Tiwary, Shelly	BrM Contractor	Shelly.tiwary@bentley.com
Wagner, Rick	BrM Contractor	Rick.wagner@bentley.com
<u>BrDR Testing TAG</u>		
Teal, Dean	Kansas DOT, TAG Chair	teal@ksdot.org
Olsen, Jeff	Montana DOT, Co-Chair	jolsen@mt.gov
Barnett, Nick	Illinois DOT	Nicholas.Barnett@illinois.gov
Befikadu, Elizabeth	AI Engineers	ebefikadu@aiengineers.com
Crudele, Brenda	New York State DOT	bcrudele@dot.state.ny.us
Dietsche, Joshua	Wisconsin DOT	joshua.dietsche@dot.wi.gov
Ehrlich, Arielle	Minnesota DOT	arielle.ehrlich@state.mn.us
Hasan, M. Mac	Colorado DOT	Mahmood.hasan@state.co.us
Huang, George	CalTrans	George_huang@dot.ca.gov



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Jackson, Amanda	Montana DOT	amjackson@mt.gov
Jones, Daniel	Alabama DOT	jonesdan@dot.state.al.us
Kappes, Bethany	Montana DOT	bkappes@mt.gov
Kemna, Aaron	Missouri DOT	aaron.kemna@modot.mo.gov
Larkins, Christal	Michigan DOT	larkinsc@michigan.gov
Litchfield, Phillip	Illinois DOT	Phillip.Litchfield@Illinois.gov
Mallard, John	Virginia DOT	Jonathan.Mallard@vdot.virginia.gov
McMunn, Creightyn	Michigan DOT	mcmunnc@michigan.gov
Murgoitio, Shanon	Idaho DOT	Shanon.Murgoitio@itd.idaho.gov
Ruby, Jeff	Kansas DOT	JRuby@ksdot.org
Thompson, Todd	South Dakota DOT	todd.thompson@state.sd.us
Vinayagamoorthy, Vinacs	CalTrans	murugesu_vinayagamoorthy@dot.ca.gov
Waheed, Amjad	Ohio DOT	awaheed@dot.state.oh.us
Woldemichael, Berhanu	Alabama DOT	woldemichaelb@dot.state.al.us
<u>BrDR Design Tool TAG (DTAG)</u>		
Olsen, Jeff	Montana DOT, Chair	jolsen@mt.gov
Teal, Dean	Kansas DOT, Co-Chair	teal@ksdot.org
Barnett, Nicholas	Illinois DOT	Nicholas.Barnett@illinois.gov
Befikadu, Elizabeth	AI Engineers	ebefikadu@aiengineers.com
Crudele, Brenda	New York State DOT	bcrudele@dot.state.ny.us
Ehrlich, Arielle	Minnesota DOT	arielle.ehrlich@state.mn.us
Hasan, M. Mac	Colorado DOT	Mahmood.hasan@state.co.us
Kappes, Bethany	Montana DOT	bkappes@mt.gov
Woldemichael, Berhanu	Alabama DOT	woldemichaelb@dot.state.al.us
<u>BrDR Reports TAG (RTAG)</u>		
Waheed, Amjad	Ohio DOT, Chair	awaheed@dot.state.oh.us
Curtis, Beckie	Michigan DOT	CurtisR4@michigan.gov
D'Andrea, Arthur	Louisiana DOT	Arthur.D'Andrea@la.gov
Olsen, Jeff	Montana DOT	jolsen@mt.gov
Stark, Richard	New York State DOT	Richard.Stark@dot.ny.gov
Thompson, Todd	South Dakota DOT	todd.thompson@state.sd.us
Wang, Cindy	Ohio DOT	cindy.wang@dot.state.oh.us
<u>BrDR User Group (RADBUG)</u>		
Crudele, Brenda	New York DOT, President (BrD)	bcrudele@dot.state.ny.us
Litchfield, Phillips	Illinois DOT, Vice President (BrR)	Phillip.Litchfield@Illinois.gov
Ruby, Jeff	Kansas DOT, Vice President (BeD)	JRuby@ksdot.org
Schroeder, David	Montana DOT, Secretary	daschroeder@mt.gov



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<u>BrM Testing TAG</u>		
Novakovich, Bruce	Oregon DOT, Chair	Bruce.D.Novakovich@odot.state.or.us
Emery, Ron	Maine DOT	Ronald.Emery@maine.gov
Fish, Patty	Idaho DOT	patty.fish@itd.idaho.gov
Laughlin, Chris	Florida DOT	Christopher.Laughlin@dot.state.fl.us
Lewis, Edward	Kansas DOT	edwardl@ksdot.org
Martin, Thomas	Minnesota DOT	Thomas.Martin@state.mn.us
Nazareth, Craig	Rhode Island DOT	cnazareth@dot.ri.gov
O'Donnell, Larry D.	FHWA Resource Center	Larry.o'donnell@fhwa.dot.gov
Thompson, Todd	South Dakota DOT	Todd.thompson@state.sd.us
<u>BrM Database/API TAG</u>		
Martin, Thomas	Minnesota DOT, Chair	Thomas.Martin@state.mn.us
Boyle, Zachary	Utah DOT	zboyle@utah.gov
Cooley, Paul	CalTrans	paul.cooley@dot.ca.gov
Cram, Ryan	Kentucky Transp. Cabinet	Ryan.cram@ky.gov
Emery, Ron	Maine DOT	Ronald.Emery@maine.gov
Fish, Patty	Idaho DOT	Patty.Fish@itd.idaho.gov
Fuqua, David	Kentucky Transp. Cabinet	David.fugua@ky.gov
Laughlin, Christopher	Florida DOT	Christopher.Laughlin@dot.state.fl.us
Lewis, Edward	Kansas DOT	edwardl@ksdot.org
Nazareth, Craig	Rhode Island DOT	craig.nazareth@dot.ri.gov
Nelson, Mike	Florida DOT	Mike.Nelson@dot.state.fl.us
O'Donnell, Larry	FHWA	Larry.O'Donnell@dot.gov
Powelson, David	New Hampshire DOT	dpowelson@dot.state.nh.us
Soden, Derek	FHWA	Derek.soden@dot.gov
Vaia, Christopher	New Mexico DOT	Christopherj.vaia@state.nm.us
<u>BrM Deterioration Modeling TRT</u>		
Aldemir-Bektas, Basak	Iowa DOT (Iowa State University)	basak@iastate.edu
Johnson, Mike	Oklahoma DOT	mjohnson2@odot.org
Kerr, Richard	Florida DOT	richard.kerr@dot.state.fl.us
McDaniel, Travis	Wisconsin DOT	Travis.McDaniel@dot.wi.gov
Nallapaneni, Prasad	Virginia DOT	prasad.nallapaneni@vdot.virginia.gov
Yarbrough, Tom	Texas DOT	tom.yarbrough@txdot.gov
Zinni, Ellen	New York State DOT	Ellen.Zinni@dot.ny.gov
<u>BrM Inspection TAG (Sunset with the Release of 5.2.2)</u>		
Christie, Eric	Alabama DOT, Chair	christiee@dot.state.al.us
Cooley, Paul	CalTrans	paul.cooley@dot.ca.gov
Fish, Patty	Idaho DOT	patty.fish@itd.idaho.gov
Kerr, Richard	Florida DOT	richard.kerr@dot.state.fl.us
Lewis, Edward	Kansas DOT	edwardl@ksdot.org
Martin, Thomas	Minnesota DOT	thomas.martin@state.mn.us
Nazareth, Craig	Rhode Island DOT	craig.nazareth@dot.ri.gov



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Novakovich, Brice	Oregon DOT	Bruce.D.Novakovich@odot.state.or.us
Thompson, Todd	South Dakota DOT	Todd.Thompson@state.sd.us
<u>Pontis 5.2 TRT</u>		
Faulhaber, Mark	Kentucky Transp Cabinet, Chair	mark.faulhaber@ky.gov
Aldemir-Bektas, Basak	Iowa State University (Iowa DOT)	basak@iastate.edu
TBD	Wyoming DOT	TBD
Choate, Scott	Louisiana DOTD	Scott.Choate@LA.GOV
Christie, Eric	Alabama DOT	christiee@dot.state.al.us
Cooley, Paul	California DOT	Paul.cooley@dot.ca.gov
Curtis, Rebecca	Michigan DOT	CurtisR4@michigan.gov
Evoy, Curt	Illinois DOT	Curt.Evoy@illinois.gov
Gorley, Dan	Idaho DOT	Dan.Gorley@itd.idaho.gov
Johnson, Mike	Oklahoma DOT	mjohnson2@odot.org
Kerr, Richard	Florida DOT	richard.kerr@dot.state.fl.us
Lewis, Edward	Kansas DOT	EdwardL@ksdot.org
Martin, Thomas	Minnesota DOT	thomas.martin@state.mn.us
McDaniel, Travis	Wisconsin DOT	travis.mcdaniel@dot.wi.gov
Nallapaneni, Prasad	Virginia DOT	prasad.nallapaneni@vdot.virginia.gov
Nazareth, Craig	Rhode Island DOT	cnazareth@dot.ri.gov
Novakovich, Bruce	Oregon DOT	Bruce.D.Novakovich@odot.state.or.us
Riemer, Karen	Connecticut DOT	karen.riemer@ct.gov
Thompson, Todd	South Dakota DOT	todd.thompson@state.sd.us
Yarbrough, Tom	Texas DOT	Tom.yarbrough@txdot.gov
Zinni, Ellen	New York DOT	ezinni@dot.ny.gov
<u>BrM User Group (BrMUG)</u>		
Choate, Scott	Louisiana DOTD, President	Scott.choate@la.gov
Coley, David	South Dakota DOT, Vice President	david.coley@state.sd.us
Boyle, Zachary	Utah DOT, Secretary	zboyle@utah.gov
<u>BRASS Product Representative</u>		
Schaefer, Brenden	Wyoming DOT	Braden.Schaefer@dot.state.wy.us

