

BrM 5.X Presentations



Formerly



- Josh Lang
- Chris Meredith
- Jeremy Shaffer



Outline of 5.X Presentations

- Presentation/Demonstration of 5.1.3
 - Support for AASHTO Elements
 - Currently Available!
- Presentation/Demonstration of 5.2.1
 - In last stage of updates and alpha testing
 - Onsite beta testing next month
- Presentation on next steps 5.2.2 / 5.2.3

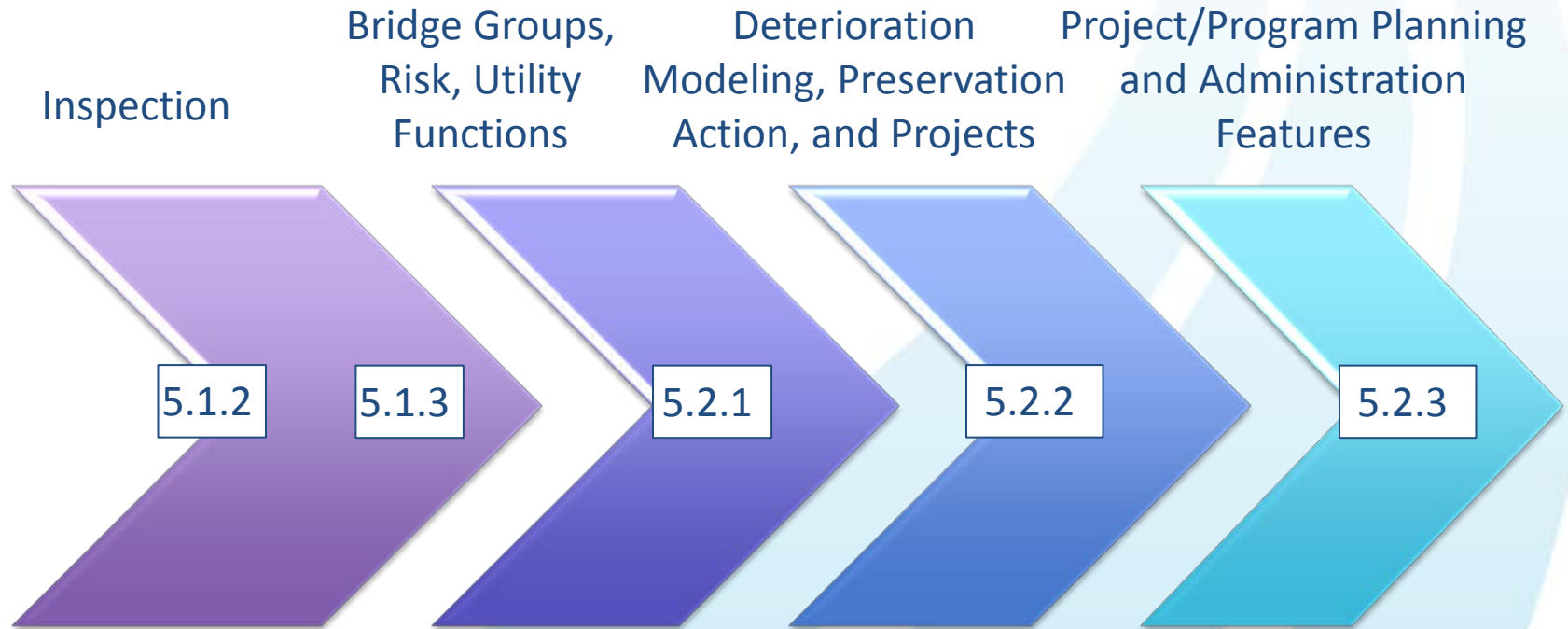


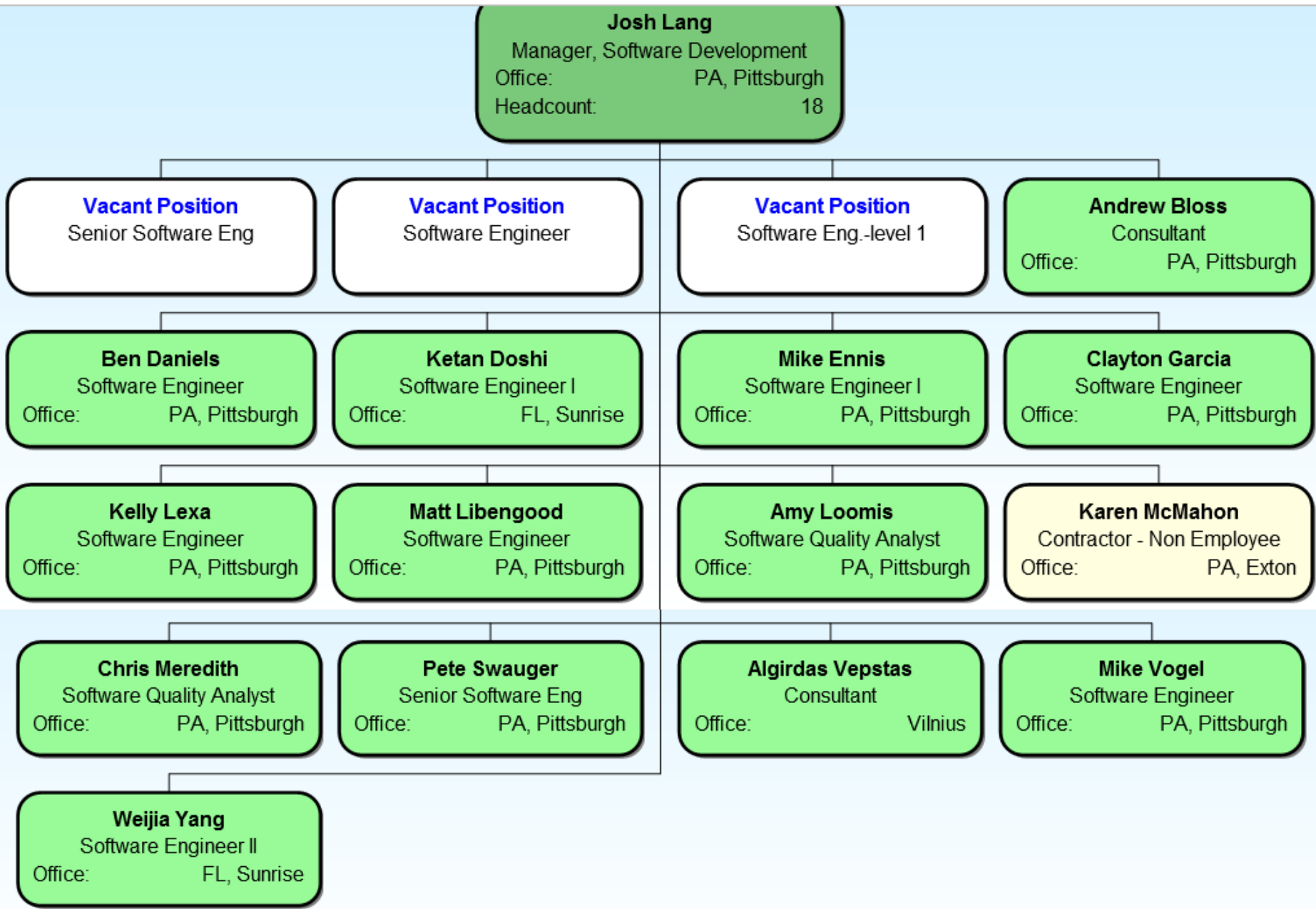
5.2 Development Phases

- Phased releases
 - Version 5.2.1 – In Final Stages
 - Utility Functions, Multi-Objective Analysis Engine, New Filters/Layouts, Mapping, Bridge Analysis Groups, New AASHTO Elements.
 - Version 5.2.2
 - Implementation of new deterioration models, preservation actions, and project analysis
 - Version 5.2.3
 - Integrated project and program planning
 - Advanced administrative features



Pontis 5.2 Stages







AASHTOWare Bridge Management

www.AASHTOWareBridge.com



BrM 5.1.3 Overview



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Overview of BrM(Pontis) 5.1.3

- Current available version of BrM(Pontis)
- Last version *named* Pontis. Newer versions will be named AASHTOWARE Bridge Management Software(BrM)
- Code base/database is still the same. Version 5.1.3 will be updateable to newer versions.



5.1.3 Features

- Ability to Import Migrated Elements
 - XML files created in the Element Migrator
- Updated database scripts
 - Database scripts combined into one
- Sp1 Update of Version 5.1.3 Released
 - Fixes bug with creation of NBI tape



Why Change?

- Computer Technology Answer:
 - Have to stay up with technology to support user base
 - New Operating Systems
 - New Database
 - New Programming Languages
 - New Protocols/Standards
 - Internet
 - Better performance, enhanced capabilities, and more features.



Why Change?

- Element Answer:
 - In early 2011 AASHTO officially adopted the AASHTO Guide Manual for Bridge Element Inspection
 - New elements (CoRe -> NBE)
- Provides a foundation for improving bridge management
- Incorporate 15+ years of extensive user comments
- Simplify for usability and capability
- Better align with state DOT business practices



AASHTO Elements (NBEs/BMEs)

- Parent/Child relationship established
- All elements now have 4 condition states
- Defect flags applied at the element level
- Elements can be set to deteriorate or not

- Great flexibility and supports what is needed for the bridge management modeling



Pontis 5.1.3

- Allows for new National Bridge Elements
- Improved Interface
- Fixes a number of issues
- New export/import options
- Some speed enhancements



Significant Changes From 4.x

- CoRe elements are read-only
- Sybase no longer supported
 - Oracle and Microsoft SQL options
- All Crystal Reports no more DW.NET
- XML option for exporting/importing
- Support for importing Migrator data

















New Feature – NBE/BME Elements

- 2011 AASHTO Bridge Element standard that replaced CoRe elements for element level bridge inspections
- Fully supported in Pontis starting with version 5.1.2/5.1.3
- CoRe elements still visible in Pontis but all new inspections will be NBE/BME

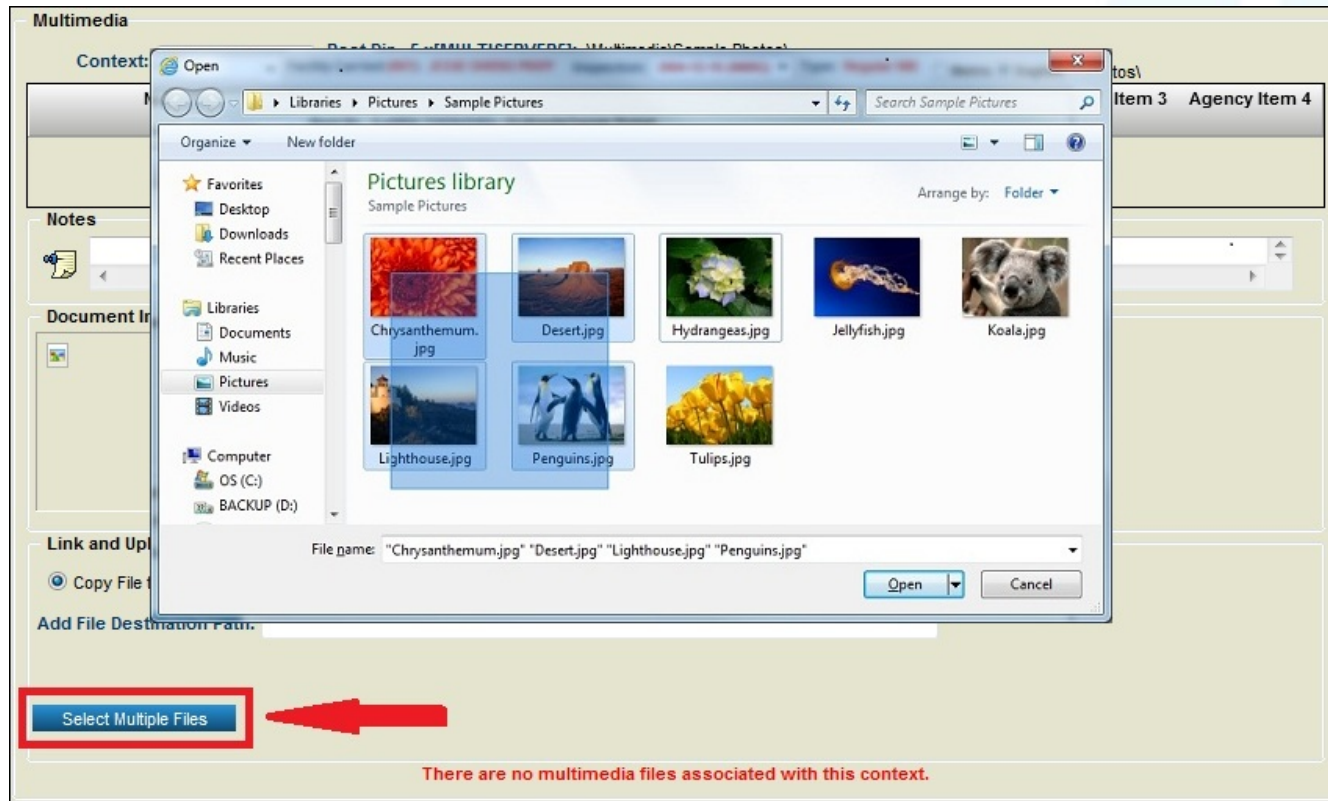
New Feature – Protective Systems

- Parent/child relationships
- Easily identifiable through icons

	Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4
 	107	0 / Type = M (0)	Ben. (1)	Steel Open Girder / Beam	1640.420	ft	1640	0	0	0
 	116	0 / Type = M (0)	Ben. (1)	R/C Stringer	1.000	ft	1	1	0	0
 	358			Concrete Cracking	1.000	ft	1	0	0	0
 	515			Steel Protective Coating	1.000	sq.ft	1	1	0	0
 	202	0 / Type = M (0)	Low (2)	Steel Column	24.000	each	0	0	24	0
 	241	0 / Type = M (0)	Low (2)	R/C Culvert	1.000	ft	1	0	0	0

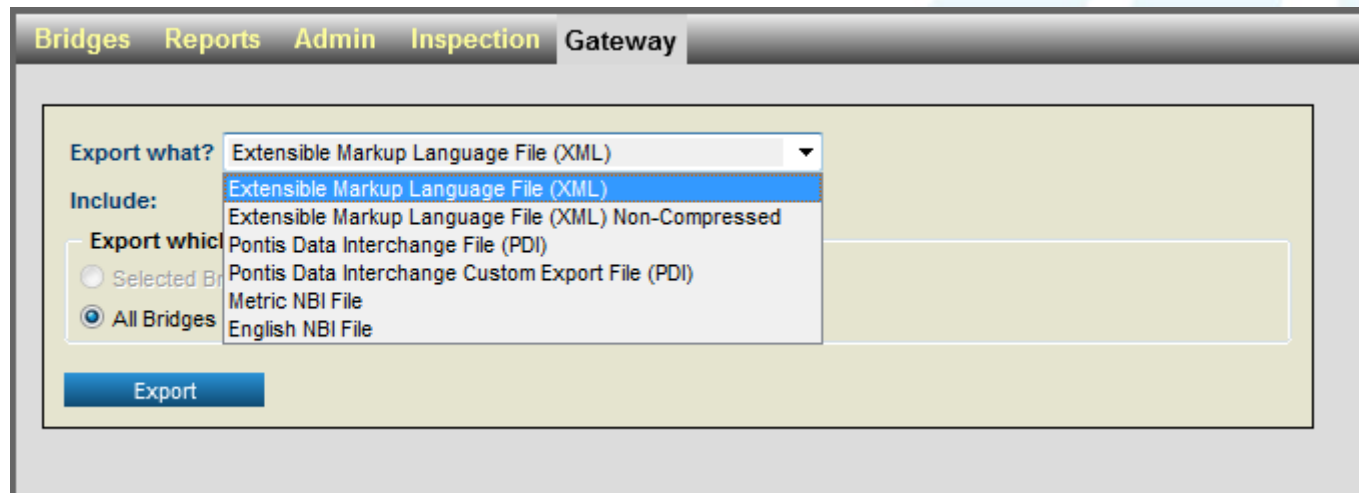
New Feature – Multi File Uploads

- Ability to upload multiple Files at once



New Feature – XML Export/Import

- XML is an industry standard format for saving and transferring data



The screenshot shows the 'Gateway' tab of the AASHTOWare Bridge Management software. The 'Export what?' dropdown menu is open, showing the following options:

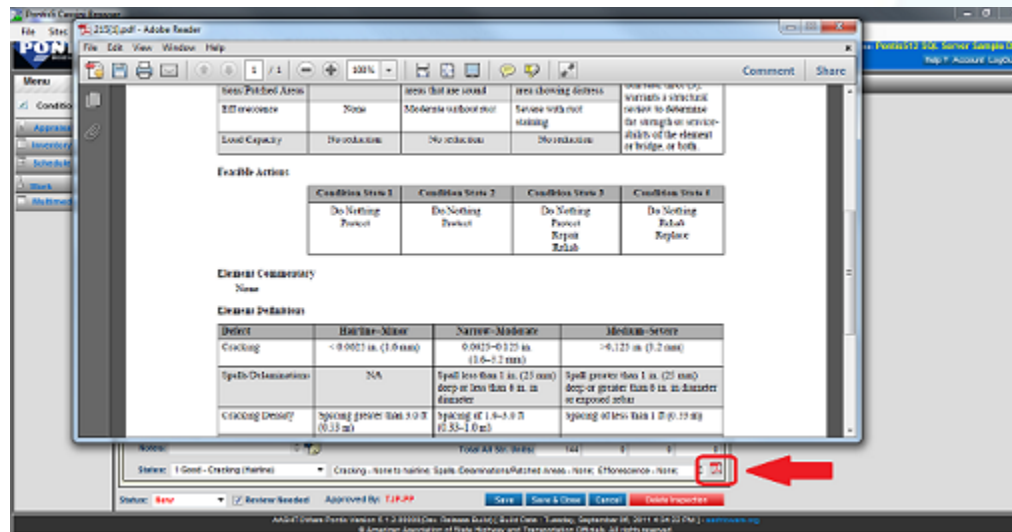
- Extensible Markup Language File (XML) (selected)
- Extensible Markup Language File (XML) Non-Compressed
- Pontis Data Interchange File (PDI)
- Pontis Data Interchange Custom Export File (PDI)
- Metric NBI File
- English NBI File

Below the dropdown, the 'Include:' section has two radio buttons: 'Selected Br' (unselected) and 'All Bridges' (selected). An 'Export' button is located at the bottom of the form.

- PDI is still available option for exporting/importing data

New Features – User Requested Features

- Integrated Guide Manuals



- Easy access to past CoRe elements

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4	Qty. 5
241	0 / Type = M (0)	Low (2)	(CoRe) Concrete Culvert	647.999	(LF)	641	7	0	0	0
333	0 / Type = M (0)	Low (2)	(CoRe) Other Bridge Railing	157.999	(LF)	158	0	0	0	0
334	0 / Type = M (0)	Low (2)	(CoRe) Misc. Rail -.33 m sw	342.001	(LF)	342	0	0	0	0
515	0 / Type = M (0)	Low (2)	(CoRe) Custom R/C Wing Wall	354.326	(LF)	354	0	0	0	0

New Feature – On Demand Lists

- Filter bridges as you type

The screenshot displays the 'Gateway' section of the AASHTOWare Bridge Management software. A dropdown menu is open for the 'Bridge' field, showing a list of bridge IDs: 04 08003, 04 08508, 04 08511, 04 08529, and 04 08530. The dropdown is highlighted with a red box. The main form shows the following details:

- Bridge: 04 08
- Facility Carried (007): JESSE OWENS PKWY
- Inspection: 2011-09-07 (TGBO)
- Type: Regular
- Channel (061): 8 Protected
- Culvert (062): N N/A (NBI)
- Waterway (071): 8 Equal Desirable
- Unrepaired Spalls: (SF)

Buttons for 'Validate' and 'Calculate SR' are visible. Below the main form is the 'Element Conditions' section, which includes a dropdown for '- All Structures -', radio buttons for 'Quantity' and 'Percent', and buttons for 'Show Last CoRe Insp' and 'Add New Element'. A table at the bottom shows the following data:

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4
215	0 / Type = M (0)	Low (2)	R/C Abutment	144.357	ft	144	0	0	0

5.1.3 FAQ's

– AASHTO Elements only (version 2011)

Element Conditions

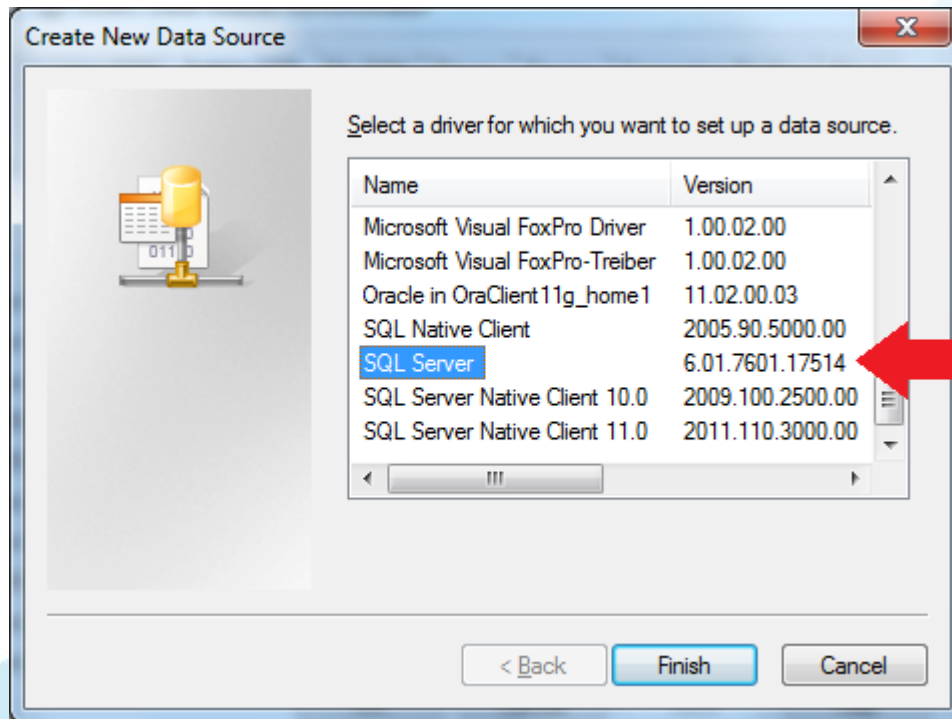
0 / Type = M (0) Quantity Percent Show Only Non-CoRe Show Last CoRe Insp Add New Element

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4	Qty. 5
40	0 / Type = M (0)	Low (2)	(CoRe) P Conc Slab/AC Ovly (ea)	2357.296	(SF)	2357	0	0	0	0
104	0 / Type = M (0)	Low (2)	(CoRe) P/S Conc Box Girder	754.593	(LF)	751	4	0	0	0
215	0 / Type = M (0)	Low (2)	(CoRe) R/Conc Abutment	144.357	(LF)	144	0	0	0	0
321	0 / Type = M (0)	Low (2)	(CoRe) R/Conc Approach Slab	2.000	(EA)	2	0	0	0	0
333	0 / Type = M (0)	Low (2)	(CoRe) Other Bridge Railing	85.302	(LF)	85	0	0	0	0
364	0 / Type = M (0)	Low (2)	(CoRe) Bridge Rail SmFlag (ea)	1.000	(EA)	1	0	0	0	0
515	0 / Type = M (0)	Low (2)	(CoRe) Custom R/C Wing Wall	298.556	(LF)	299	0	0	0	0
38	0 / Type = M (0)	Low (2)	Concrete Slab	2357.296	sq.ft	2357	0	0	0	
510			Wearing Surfaces	2357.296	sq.ft	2357	0	0	0	
104	0 / Type = M (0)	Low (2)	Prestress Box Girder	754.593	ft	751	3	0	0	
215	0 / Type = M (0)	Low (2)	R/C Abutment	144.357	ft	144	0	0	0	
321	0 / Type = M (0)	Low (2)	R/Conc Approach Slab	10753.147	sq.ft	10753	0	0	0	
333	0 / Type = M (0)	Low (2)	Other Bridge Railing	85.302	ft	85	0	0	0	

5.1.3 FAQ's

– SQL Server ODBC Driver

- Use the SQL Server “6.01.7601.17514”



5.1.3 FAQ's

- Internet Explorer 10 Not Supported
 - Version 8 and 9 supported
- IE 10 is a critical update but can be uninstalled
- Non-IE browsers are not supported
 - Chrome
 - Firefox
 - Safari



DEMO

AASHTOWare Bridge Management

www.AASHTOWareBridge.com



Bridge Management Contact Info:

Feel free to contact us or visit our website for more information:

Website: <http://aashtowarebridge.com>

Support line: 1-877-913-1550

Support email: brm@bentley.com

JIRA: <https://bridgeware.atlassian.net/>



The screenshot shows the homepage of the AASHTOWare BrM Bridge Management website. The header features the logo and navigation links: About, News, Support, Training, Downloads, Links, and Contact. The main banner image shows a yellow arch bridge with the text "AASHTO's proven Bridge Management Software". Below the banner is a "Welcome" section with a paragraph of text: "The AASHTOWare™ Bridge Management software BrM (formerly Pontis) was first developed under an NCHRP project sponsored by the FHWA in the early 1990's and soon thereafter was transferred to AASHTO for further development, maintenance and support. For over 20 years BrM has seen dramatic improvements due to technological changes, product innovations, and, most importantly, direct user feedback. As a key product in the AASHTOWare software suite, BrM continues to be widely used as the primary bridge management software by transportation agencies across the U.S., and internationally." Below this is another paragraph: "AASHTOWare's efforts are headed by a Task Force comprised of State bridge engineering and information technology professionals. This Task Force manages the product and the contractor's efforts on behalf of AASHTO and the user community in order to ensure development, maintenance, and support of the software meets the needs and requirements of current bridge owners in State and local agencies, governmental organizations such as the FHWA, and private consultants." The final paragraph states: "The latest official release of BrM is 5.1.3. This version was accepted by the TAG and approved by the Task Force for release in April 2013. Agencies wishing to install and use 5.1.3 should contact the Contractor directly to request the software (email or phone call will suffice). The contractor is currently developing the next generation of AASHTOWare Bridge Management software (version 5.2), sponsored by a national project solicitation. This next generation of BrM is expected to be released soon." On the right side, there is a social media section with a "Like" button (24 people like this), a "Follow @AASHTOWareBrM" button, a search bar, and a "Recent Posts" section listing: Home, 5.1.3 Official Release, Product Update, Element Migrator Webinar, and JIRA Migration Complete. Below that is an "Archives" section.

