

Bridge Works version 8.5 upgrade installation instructions: For questions or assistance with installation please contact;

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Workstations that have Bridge Works v8.4 installed are using the 32 bit Operating System (OS) version of SQL Server 2008 and Bridge Works. Starting with Bridge Works v8.5 there is the requirement of using a 64 bit version of SQL Server and Bridge Works on 64 bit OS workstations.

NOTE 1: Please read these instructions carefully. Instructions have been separated into 3 categories. It is recommended that you print the instructions for your particular category for easy reference.

NOTE 2: Administrative privileges are required to perform the SQL Server and Bridge Works removal and installations.

NOTE 3: If you have any Selection Sets or an Inventory List that you wish to save write them out to a text file before you begin this process. The text file can be read back in after installing Bridge Works v8.5.

NOTE 4: If you made the mistake of entering data into Bridge Works v8.4 after May 2, 2013 you did not synchronize. To save as much of your work as possible, start Bridge Works and print your report(s) before you begin the following steps.

NOTE 5: Personnel who do not have a Bridge Works Account and are installing Bridge Works for others can use the Guest login to access the Bridge Works User Interface. This is a limited account designed for this specific purpose. The login information is as follows;

Group – WSDOT
Account – Guest
Password - password

The first time Bridge Works opens there may be a delay before it makes a connection to the Server (you get a colored lightning bolt in the lower right corner of the Bridge Works User Interface). Be patient. The workstation must make a “hand shake” with the Server and be recognized as a legitimate connection.

NOTE 6: After you have loaded Bridge Works you will no longer have ownership of the updates you were working on in version 8.4. Simply make sure your latest update is highlighted and click “Edit”. Then you can continue working.

NOTE 7: Be sure to check the Date of Inspection on your new reports. Remember, when you click “Include in report” the date field will auto populate and may be different than the correct date.

NOTE 8: Repair Descriptions do not print on the Inspection Report at this time. However you can make a Selection Set of the structures with repairs and export the Selection Set to a MS Access database. From there you can copy and paste the repairs into an MS Excell spreadsheet for printing.

A) Upgrading 32 bit versions of Bridge Works (Most Windows XP users):

- 1) Download the following files from;

<ftp://ftp.wsdot.wa.gov/public/localprograms/bridge/bridgeworks>

8-5-2-23.exe

Bridge Inventory_2013_MM_DD.exe

(MM_DD is the month and day the file was created).

These are self-extracting zip files. Open them as you normally would any application by clicking or double clicking as the case may be. The default directory where the files will be extracted to is C:/Temp. The destination directory can be changed in the window that opens but be sure you can get back to it.

Unzip the files before proceeding.

- 2) Stop the Bridge Works Service.

For Windows XP users click the start button. Select Control Panel/Administrative Tools/Services.

Windows 7 users can click the start button or globe. Type the first few letters of Service into the search box. Select either local services or component services. If you selected component services you will need to select local services in the Snap-In window that comes up.

In the Services Snap-In window highlight Bridge Works Service and stop the service.

Scroll down and select SQL Server (SQLEXPRESS) and stop this service as well.

NOTE: SQL Server is not always followed by the SQLEXPRESS instance name. It may be MSSQLSERVER or some other name. It is however the SQL Express Service and can be identified by the description in that it provides storage, processing and controlled access of data. If you have multiple instances of SQL Server installed, be sure to stop the service identified in the Bridge Works Service logs. (C:/Program Files (x86)/WSDOT/BridgeWorks/logs/BridgeWorksService_2013_MM_DD.log)

- 3) Open a Windows Browser and navigate to;

C:/Program Files (x86)/Microsoft SQL Server/MSSQL 10 SQL EXPRESS/MSSQL/DATA

In the DATA directory folder permanently delete "BridgeInventory.mdf" and "BridgeInventory.ldf". If these files cannot be deleted it is because the SQL Server Service is still running. See A2 above.

- 4) Uninstall Bridge Works v8.4 and SQL Server 2008 using Add or Remove Programs.

NOTE: If you are currently using Microsoft SQL Server 2008 R2 you will not need to uninstall SQL Server. If in the "Add or Remove Programs" listing there is not the R2 extension you will

have to uninstall. Bridge Works v8.5 does not work well with the first release of Microsoft SQL Server 2008 Express.

XP users can click Start/Control Panel/Add or Remove Programs.

Windows 7 users can click the Start button or globe and type Add in the search box. Select Add or Remove Programs.

- 5) If necessary install Microsoft SQL Server Express 2008 R2.
Navigate to C:/Temp/8-5-2-23/x86. Launch SQLEXPRT_x86_ENU.exe.

NOTE: The following are hints for loading SQL Server 2008 Express R2. If you are comfortable with loading SQL Server you can skip down to #A6.

After the support files have self-extracted the first window you should see allows you to select several actions. However the left column should have defaulted to "Installation". If it has not, select "Installation". On the Right side select the top option (New Installation or Add...).

Accept the License terms and click "Next".

In the Features Selection options window be sure the Database Engine Service check box is checked. If you wish to select and install all features that is acceptable. Click "Next".

The next options window should have defaulted to Named Instance and have the name SQLExpress. Click "Next".

The Server Configuration options should have defaulted to;

<u>Service</u>	<u>/ Account Name</u>	<u>/ Password</u>	<u>/ Startup Type</u>
SQL Server Database Engine	/ NTAuthority/Network Service	/ greyed out	/ Automatic

If the Account Name is blank, click in the field. A dropdown arrow will appear and you can select "NTAuthority/Network Service". Be sure to click in the Password text box. While you do not need to enter anything in this text box it does need to get highlighted before you click the "Next" command button. The SQL Server Browser Service is normally disabled. This can be changed later if necessary. Click "Next"

In the Database Engine Configuration options leave the radio button for Windows Authentication Mode selected. Current user should have already been added, but if not click on the "Add Current User" command button. Click "Next"

In the next options window you can elect to send error messages or leave as defaulted and click "Next".

The SQL Server installation should proceed from here until it has finished.

This version of SQL Server 2008 Express R2 is usually a fairly straight forward install, mostly just following the prompts. If there is a failure the failure messages are normally understandable and readily corrected. The only enigmatic message I've seen while installing

this version was due to a corrupt sector on the hard drive. Check Disk (chkdsk) often resolves this issue.

- 6) Install Bridge Works v8.5.
In your Windows Browser navigate to C:/Temp/8-5-2-23. Launch "BridgeWorks H&LP.exe". This executable will select the correct Bridge Works installation file based on your Operating System and install it. At the end of the installation you should see a warning message telling you that your workstation needs to be rebooted. This normally indicates a successful install.
- 7) If you haven't done so already, reboot the workstation.
- 8) When your workstation has rebooted launch (start) Bridge Works. After launching Bridge Works you should see a warning message indicating that a BWSYSTEM file was not found and asking if you would like to install one.

NOTE: Normally the Bridge Works Log In screen will come up first and after a short time the warning message will display. Though not common the Log In screen may persist for a few minutes while the Bridge Works Service completes some background processing. Be patient, the initial startup always takes longer.

Click "Yes" on the warning message and in the Windows Browser that opens navigate to the directory where you saved "Bridge Inventory_2013_MM_DD.BWSYSTEM" and select it (Usually C:/Temp unless you have changed the default). The Bridge Works splash screen will open and a message will display at the bottom indicating that the BWSYSTEM file is being installed.

Once the BWSYSTEM file has finished loading Bridge Works will display the Log In screen again. There will be a short delay while the Bridge Works Service identifies the System (database) and Operation. Again be patient and allow this initialization to complete. After the System and Operation have self-identified log into the application as you normally would or use the Guest Account. Don't forget to select your proper Group and select the radio button for the login mode you would like (Normal login, Remember Password or Automatic login).

After you get a connection the Bridge Works Service will default to "Force Sync Mode" (the lightning bolt will be orange in color). You can set or read in your Inventory List and any Selection Sets you may have. Remember however that Bridge Works will be sluggish until it has completed synchronizing the Control Data (lightning bolt will change to a yellow color which indicates normal sync mode).

Note: The "8-5-2-23.exe", "Bridge Inventory_2013_MM_DD. Exe", the 8-5-2-23 directory, and "Bridge Inventory_2013_MM_DD.BWSYSTEM" file can all be deleted or moved to a shared drive at this time as your workstation no longer needs them.

B) Upgrading 64 bit versions of Bridge Works and SQL Server Express (Most Windows 7 users):

- 1) Download the following files from;

<ftp://ftp.wsdot.wa.gov/public/localprograms/bridge/bridgeworks>

8-5-2-23.exe

Bridge Inventory_2013_MM_DD.exe

(MM_DD is the month and day the file was created).

These are self-extracting zip files. Launch them as you normally would any application by clicking or double clicking as the case may be. The default directory where the files will be extracted to is C:/Temp. The destination directory can be changed in the window that opens but be sure you can get back to it.

Unzip the files before proceeding.

- 2) Stop the Bridge Works Service.

For Windows XP users click the start button. Select Control Panel/Administrative Tools/Services.

Windows 7 users can click the start button or globe. Type the first few letters of Service into the search box. Select either local services or component services. If you selected component services you will need to select local services in the Snap-In window that comes up.

In the Services Snap-In window highlight Bridge Works Service and stop the service.

Scroll down and select SQL Server (SQLEXPRESS) and stop this service as well.

NOTE: SQL Server is not always followed by the SQLEXPRESS instance name. It may be MSSQLSERVER or some other name. It is however the SQL Express Service and can be identified by the description in that it provides storage, processing and controlled access of data. If you have multiple instances of SQL Server installed, be sure to stop the service identified in the Bridge Works Service logs. (C:/Program Files (x86)/WSDOT/BridgeWorks/logs/BridgeWorksService_2013_MM_DD.log)

- 3) Open a Windows Browser and navigate to;

C:/Program Files (x86)/Microsoft SQL Server/MSSQL 10 SQL EXPRESS/MSSQL/DATA

In the DATA directory folder permanently delete "BridgeInventory.mdf" and "BridgeInventory.ldf". If these files cannot be deleted it is because the SQL Server Service is still running. See B2 above.

- 4) Uninstall Bridge Works v8.4 and SQL Server 2008 using Add or Remove Programs.

XP users can click Start/Control Panel/Add or Remove Programs.

Windows 7 users can click the Start button or globe and type Add in the search box. Select Add or Remove Programs.

5) Install SQL Server 2008 Express R2.

Navigate to C:/Temp/8-5-2-23/x64. Launch SQLEXP_x64_ENU.exe.

NOTE: The following are hints for loading SQL Server 2008 Express R2. If you are comfortable with loading SQL Server you can skip down to #B6.

After the support files have self-extracted the first window you should see allows you to select several actions. However the left column should have defaulted to "Installation". If it has not, select "Installation". On the Right side select the top option (New Installation or Add...).

Accept the License terms and click "Next".

In the Features Selection options window be sure the Database Engine Service check box is checked. If you wish to select and install all features that is acceptable. Click "Next".

The next options window should have defaulted to Named Instance and have the name SQLExpress. Click 'Next'.

The Server Configuration options should have defaulted to;

<u>Service</u>	<u>/ Account Name</u>	<u>/ Password</u>	<u>/ Startup Type</u>
SQL Server Database Engine	/ NTAAuthority/Network Service	/ greyed out	/ Automatic

If the Account Name is blank, click in the field. A dropdown arrow will appear and you can select "NTAuthority/Network Service". Be sure to click in the Password text box. While you do not need to enter anything in this text box it does need to get highlighted before you click the "Next" command button. The SQL Server Browser Service is normally disabled. This can be changed later if necessary. Click "Next"

In the Database Engine Configuration options leave the radio button for Windows Authentication Mode selected. Current user should have already been added, but if not click on the "Add Current User" command button. Click "Next"

In the next options window you can elect to send error messages or leave as defaulted and click "Next".

The SQL Server installation should proceed from here until it has finished.

This version of SQL Server 2008 Express R2 is usually a fairly straight forward install, mostly just following the prompts. If there is a failure the failure messages are normally understandable and readily corrected. The only enigmatic message I've seen while installing this version was due to a corrupt sector on the hard drive. Check Disk (chkdsk) often resolves this issue.

- 6) Install Bridge Works v8.5.

In your Windows Browser navigate to C:/Temp/8-5-2-23. Launch "BridgeWorks H&LP.exe". This executable will select the correct Bridge Works installation file based on your Operating System and install it. At the end of the installation you should see a warning message telling you that your workstation needs to be rebooted. This normally indicates a successful install.

- 7) If you haven't done so already, reboot the workstation.
- 8) When your workstation has rebooted, launch (start) Bridge Works. After launching Bridge Works you should see a warning message indicating that a BWSYSTEM file was not found and asking if you would like to install one.

NOTE: Normally the Bridge Works Log In screen will come up first and after a short time the warning message will display. Though not common the Log In screen may persist for a few minutes while the Bridge Works Service completes some background processing. Be patient, the initial startup always takes longer.

Click "Yes" on the warning message and in the Windows Browser that opens navigate to the directory where you saved "Bridge Inventory_2013_MM_DD.BWSYSTEM" and select it (Usually C:/Temp unless you have changed the default). The Bridge Works splash screen will open and a message will display at the bottom indicating that the BWSYSTEM file is being installed.

Once the BWSYSTEM file has finished loading Bridge Works will display the Log In screen again. There will be a short delay while the Bridge Works Service identifies the System (database) and Operation. Again be patient and allow this initialization to complete. After the System and Operation have self-identified log into the application as you normally would or use the Guest Account. Don't forget to select your proper Group and select the radio button for the login mode you would like (Normal login, Remember Password or Automatic login).

After you get a connection the Bridge Works Service will default to "Force Sync Mode" (the lightning bolt will be orange in color). You can set or read in your Inventory List and any Selection Sets you may have. Remember however that Bridge Works will be sluggish until it has completed synchronizing the Control Data (lightning bolt will change to a yellow color which indicates normal sync mode).

Note: The "8-5-2-23.exe", "Bridge Inventory_2013_MM_DD. Exe", the 8-5-2-23 directory, and "Bridge Inventory_2013_MM_DD.BWSYSTEM" file can all be deleted or moved to a shared drive at this time as your workstation no longer needs them.

C) Clean Install of Bridge Works 8.5 and SQL Server 2008 Express R2:

- 1) Download the following files from;

<ftp://ftp.wsdot.wa.gov/public/localprograms/bridge/bridgeworks>

8-5-2-23.exe

Bridge Inventory_2013_MM_DD.exe

(MM_DD is the month and day the file was created).

These are self-extracting zip files. Launch them as you normally would any application by clicking or double clicking as the case may be. The default directory where the files will be extracted to is C:/Temp. The destination directory can be changed in the window that opens but be sure you can get back to it. Unzip the files before proceeding.

- 2) In a Window Browser navigate to C:/Temp/8-5-2-23 (or the directory where you unzipped the above executable files to). In the 8-5-2-23 folder are two more folders, select the folder matching your Operating System (x64 for 64 bit workstations, x86 for 32 bit workstations).

Inside each respective folder is a SQL Server 2008 Express R2 installation file for that Operating System. Install SQL Server.

NOTE: The following are hints for loading SQL Server 2008 Express R2. If you are comfortable with loading SQL Server you can skip down to #C3.

After the support files have self-extracted the first window you should see allows you to select several actions. However the left column should have defaulted to "Installation". If it has not, select "Installation". On the Right side select the top option (New Installation or Add...).

Accept the License terms and click "Next".

In the Features Selection options window be sure the Database Engine Service check box is checked. If you wish to select and install all features that is acceptable. Click "Next".

The next options window should have defaulted to Named Instance and have the name SQLEXPRESS. Click "Next".

The Server Configuration options should have defaulted to;

Service _____ / Account Name _____ / Password _____ / Startup Type
SQL Server Database Engine / NTAuthority/Network Service / greyed out / Automatic

If the Account Name is blank, click in the field. A dropdown arrow will appear and you can select "NTAuthority/Network Service". Be sure to click in the Password text box. While you do not need to enter anything in this text box it does need to get highlighted before you

click the “Next” command button. The SQL Server Browser Service is normally disabled. This can be changed later if necessary. Click “Next”

In the Database Engine Configuration options leave the radio button for Windows Authentication Mode selected. Current user should have already been added, but if not click on the “Add Current User” command button. Click “Next”

In the next options window you can elect to send error messages or leave as defaulted and click “Next”.

The SQL Server installation should proceed from here until it has finished.

This version of SQL Server 2008 Express R2 is usually a fairly straight forward install, mostly just following the prompts. If there is a failure the failure messages are normally understandable and readily corrected. The only enigmatic message I’ve seen while installing this version was due to a corrupt sector on the hard drive. Check Disk (chkdsk) often resolves this issue.

- 3) Navigate to the 8-5-2-23 directory. Launch “BridgeWorks H&LP.exe”. This executable will select the correct version of Bridge Works to install based on your Operating System. When the installation is complete you should get a message advising you that your workstation must be restarted. This normally indicates a successful install.
- 4) If you have not already done so, reboot your workstation.

When your workstation has rebooted, launch (start) Bridge Works. After launching Bridge Works you should see a warning message indicating that a BWSYSTEM file was not found and asking if you would like to install one.

NOTE: Normally the Bridge Works Log In screen will come up first and after a short time the warning message will display. Though not common the Log In screen may persist for a few minutes while the Bridge Works Service completes some background processing. Be patient, the initial startup always takes longer.

Click “Yes” on the warning message and in the Windows Browser that opens navigate to the directory where you saved “Bridge Inventory_2013_MM_DD.BWSYSTEM” and select it (Usually C:/Temp unless you have changed the default). The Bridge Works splash screen will open and a message will display at the bottom indicating that the BWSYSTEM file is being installed.

Once the BWSYSTEM file has finished loading Bridge Works will display the Log In screen again. There will be a short delay while the Bridge Works Service identifies the System (database) and Operation. Again be patient and allow this initialization to complete. After the System and Operation have self-identified log into the application as you normally

would or use the Guest Account. Don't forget to select your proper Group and select the radio button for the login mode you would like (Normal login, Remember Password or Automatic login).

After you get a connection the Bridge Works Service will default to "Force Sync Mode" (the lightning bolt will be orange in color). You can set or read in your Inventory List and any Selection Sets you may have. Remember however that Bridge Works will be sluggish until it has completed synchronizing the Control Data (lightning bolt will change to a yellow color which indicates normal sync mode).

Note: The "8-5-2-23.exe", "Bridge Inventory_2013_MM_DD. Exe", the 8-5-2-23 directory, and "Bridge Inventory_2013_MM_DD.BWSystem" file can all be deleted or moved to a shared drive at this time as your workstation no longer needs them.