

# Upgrade Considerations for Wonderware Historian

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You have to be mindful when upgrading versions of Historian. There are differences in the Historian Runtime databases and supporting software that prevent simply upgrading from any version upward.

If you are upgrading "in-place" and not changing the operating system or SQL Server versions, the upgrade paths in the chart below must be followed.

If you are migrating your Historian to another machine and want to simply restore the Runtime database, you must also follow these upgrade paths.

- **IMPORTANT:** After restoring your Runtime database onto a new machine with a different name, you will need to replace references to the old server name with the new server name the Runtime database. Contact tech support if you'd like a SQL script to help with this.

Upgrade To Version	From Minimum Version	Comment
9.0	Before 9.0	Anything early must get to 9.0 to go forward
10.0	9.0	You can only upgrade from 9.0
2012 R2 (11.0)	10.0	You can only upgrade from 10.0
2014 (11.5)	10.0 SP1	You can upgrade from 10.0 SP1, 2012, or 2012 R2
2014 R2 (11.6)	2012 R2	You can upgrade from 2012 R2 or 2014
2014 R2 SP1 (11.6.131)	2012 R2	You can upgrade from 2012 R2, 2014, or 2014 R2
2017 (U1, U2, U3)	2014 R2 SP1	You can only upgrade from 2014 R2 SP1

If you are migrating your Historian to a new machine, you can instead use the Configuration Export and Import Utility (aahDBDump.exe).

- First use it on the original installation to export your configuration to a text file.
- Then use the import options of the same utility on your new machine to import that text file.
- The utility will compensate for variations between versions, allowing you to freely import configurations from older to newer versions without regard to those upgrade path limits.
- **IMPORTANT:** If you have changed any of your architecture, such as the locations of IO Servers, you can manually edit the text file before importing, or change the settings in the SMC before restarting.

The last step before restarting is to physically copy your history folders from the old system to new. History folders from very old Historians can still be used on the latest versions, so you likely have no concerns with the actual history folders.

There is a rare situation where you might not see your old data. There are some index files that must be rebuilt. Contact tech support for a SQL script to do this.

## Tag Renaming

Some projects require you to rename your tags. For example, if you decide on a new tag naming standard, or you move from an InTouch-only architecture to System Platform.

Here are two options:

1. Decide that you will have "old" history and "new" history. Store both in the same Historian, or keep them in separate Historians, whatever fits your need.

If in the same Historian, configure these two properties of each old tagname:

- 'Acquisition Type' to **Not Acquired**, so it won't keep trying to read data.
- 'Storage Method' to **Not Stored**, so it won't try to store anything new.
- You can use the Configuration Export and Import Utility to change these for multiple tags at once.

Keeping them in the same Historian could double your tag count, so be sure your license allows it.

2. If you truly want to change those tagnames, use the Tag Rename Utility (..\Historian\x64\ahTagRename.exe) provided with your Historian installation (version 2014 or higher).

Wonderware tech note TN1209 is a step-by-step guide on using this tag rename utility. You can rename only specific tags or import a CSV file to do many at once. Prepare the CSV file first, each line in this simple format:  
oldtagname, newtagname

#### **IMPORTANT:**

Historical data older than version 2012 R2 was stored differently. This Tag Rename Utility is not sufficient. There is an older Tag Rename utility you must use first to convert your old history folders' data. Contact tech support if you have this situation.

For more information...

- System Platform Installation Guide - Chapter 7 Historian Server Installation and Configuration
- TN10224 Installing SQL Server 2016 for Wonderware Products
- TN676 Moving the Historian Runtime Database to Another Machine