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How to create Dashboard in Wonderware Historian InSight

SUMMARY

Historian version 11.6.14101 (or 2014R2 SP 1 P01) and above offer a feature called Historian InSight. InSight is the on-premises version of Wonderware Online InSight. It provides an easy-to-use graphical interface for analyzing data, creating charts, and compiling dashboards of related information. A Historian InSight Dashboard provides you with a view of related information by displaying related charts, together in one place. This *Tech Note* provides the step-by-step procedure how to create a dashboard within the Historian InSight.

Application Versions

- Historian version is 17,0,18000,000 (or 2017)
- Historian tags were imported from the InTouch Demo application.
- Data values for Historian tags are from an InTouch Demo application

ACTION

- 1. Start Configurator and highlight Search.
- 2. Make sure the **Reindex Search Documents** option is selected, then click the **Configure** button at the bottom right side of the dialog box.

🔀 Configurator		_		×
File Help				
 Frie Freip Fistorian Server Security Search Reporting Schneider Electric Licensing Schneider Electric License Sen 	Search Configuration Data Path: C:\Historian\Data\SearchIndex Log Path: C:\Historian\Data\Logs\SearchIndex Reindex Search Documents			
c	Configuration Messages			
	Version 4.6.1586 Pre-Requisite:SQLServer Condition met Historian Search prerequisite check started. Successfully Connected the Wonderware Historian Search Service. Successfully Connected to the Web request. wwhsearchindex index exist.			Â
< > Refresh All Messages	Historian Search prerequisite check completed.	Configu	re	∨ Close

Figure 1: Configurator settings



3. From the Historian SMC, highlight Status and make sure Historian System status is Running.

Note:

Historian System version is at 17,0,18000,000

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ArchestrA System Management Console (WIN165 🔺	Item	Value	Module	Status
🎨 Historian	System time	8/3/2017 7:29:37 PM	Storage	Started
🗸 🗾 Historian Group	Time of last start	8/1/2017 3:52:27 PM	Classic data redirector	Started
WIN16SP2017	Elapsed time since last start	2 dys 3 hrs 37 mins	Data import	Started
V S Management Console	Time of last stop	8/1/2017 3:52:00 PM	Replication	Started
Status	Time of last reconfiguration	8/1/2017 4:03:40 PM	Classic event system	Started
Data Acquisition	Configuration status	Normal	Retrieval	Started
	System status	Running	Indexing	Started
Replication	License status	Valid		
Clients	Total number of tags in database	261	DLE-DB provider	Started
🚱 History Blocks	Number of licensed tags in datab	ase 66	Historian I/O server	Started
Configuration Editor	Allocated license tag count	100	Client access point	Started
System Configuration	Available license tag count	499,900	Metadata server	Started
> 💑 Parameters	Total number of data values recei	v 8,993,541	Event storage	Started
> Data Acquisition	Overall data rate (per sec.)	49.47	System driver	Started
> Storage	Fatal errors	0	Data acquisition on \\WIN1	Started
	Critical errors	0		
Tag Configuration	Errors	0		
> 🔤 Messages	Warnings	0		
> 🕺 Engineering Units	Time of last error reset	8/1/2017 3:52:00 PM		
> 🛐 Analog Tags	Space available on circular path	32.7 GB		
> Translog Summary Tags	Space available on alternative pat	h Undefined or invalid path		
> 🖥 Discrete Tags	Space available on buffer path	32.7 GB		
> T- String Tags	Space available on permanent part	th 32.7 GB		
> 28 State Summary Tags	System version	17,0,18000,000	<	
> 3 Event Tags				
	Time Mes	sage		
> 🚞 Summaries	8/3/2017 12:00:00.481 AM Crea	ted new history block;C:\Historian	\Data\Circular\A170803_001	
> 🔡 Replication		ted new history block;C:\Historian		
> iii Public Groups		amic reconfiguration complete - cl		
> D Private Groups		ed data acquisition on;WIN16SP20		
🖳 Log Viewer		onfiguring data acquisition		
V Default Group		base modifications detected		
		was granted Level 2 access;magell	andev2000\www.ser;WIN16SP2017	
		ed data acquisition on:WIN16SP20		



4. On the Historian Server machine, open either Microsoft Internet Explorer (IE) or Chrome web browser, and type the following URL:

http://<Server name>:32569

Where Server name is the name of the Historian server.

Tip: Because the Historian is on the local machine, you can replace the server name with Localhost:

http://Localhost:32569

Notes:

- · Chrome is a preferable web browser choice for Historian InSight
- Make sure the firewall port 32569 is open.
- You can check it out using Telnet Client in the following command line:

TELNET <Servername> 32569

5. First, create some **Content** for the dashboard. With Historian InSight, you can search for specific tags and display them in a single chart view.

You can choose the chart type, add or remove tags from the chart, fine-tune how the content is displayed. You can then save and share your content.



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1	())))))	Evenith for served content, de Data remaincludes (88) Auto (1) SociessLevel (B) Subarnithinations (D) engunit includes Stores (22) engunit includes Stores (22) engunit includes MD (8) engunit includ	ADD ALL © ADD ALL ©	creating your own content in	

Figure 3: Creating InSight dashboard content

The search bar allows you to search for any set of tags based on string characteristics of the tags, such as tag name, description, and engineering unit.

In this example, suppose you want data related to a reactor, you could type **Reactor** in the search bar to see saved content and data related to this search criterion.

Figure 4 (below) shows it found 2 tags: ReactLevel, and ReactTemp because their tag descriptions contain the word reactor.

6. Select the tags you want to add to include them in the operational data you want to view.

The following figure shows tags ReactLevel and ReactTemp.

Manufacture Mitchedan (197		0			
Wonderware Historian InSi	ight	Q. Search for saved content,	data tags, or keywords.		Content 🗸 🤤
rch Results Iches a			Mixed Data 0 AM - 8/18/2017, 7:04:29 PM 3	>	e n
GS All Tegs	c		CURRENT VALUE	TREND	
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LAST 301	DAYS LAST 7 DAYS	LAST 3 DAYS	YESTERDAY	ODAY LAST	HOUR CUSTOM

Figure 4: Reactor tags for InSight

Here are some descriptions for the this display:

 a: Search Results are categorized by tag types and engineering units. We can choose a category to work with. A special category called All Tags that combines numeric tags with different units of measure.
 Note: Engineering units (or unit of measure) are case sensitive. That means ml (millilitere) and ML (meas litere) are not the same.

Note: Engineering units (or unit of measure) are case-sensitive. That means ml (milliliters) and ML (mega liters) are not the same.

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- b: Logged in user. If you mouse over the person icon on the upper left corner of the screen, it will show you the current login user name.
- **c**: Tag names that related to the keyword entered in the search box
- d: Timeframe for the data
- e: Share menu to save or reuse your data analysis
- f: Show Gallery and Show Data buttons
- 7. Click the Show Gallery then select Line Chart
- 8. On the **Timeframe** at the bottom of the chart, select the timeframe you want to display for the chart. The following figure shows **LAST HOUR** was selected.

By clicking on a tag name you can turn on or off the tag from the chart.

- 9. After you satisfy with the chart, click on the Share menu and select Save to save the trend.
- 10. Type a meaningful Content Name to describe the chart.

In this example, the content name is Reactor – Hourly Temp and Level.

11. Type a descriptive **Keyword** or set of keywords for the content you want to include in the dashboard. Make sure one or more keywords define just the content you want to include in the dashboard. If you are too general, you can end up with extra content you did not want in the dashboard.

In this example, the keywords Hourly and Reactor are being used for our first content (Figure 5 below).

Note: Keywords are important because they allow you to add multiple contents having one or more common keywords into a single dashboard so that you can view multiple things at the same time.

Save		×
Content Name		
Reactor - Ho	urly Temp and Level	É
Hourly ×	Reactor	
Hourly X	Reactor	

Figure 5: Add keywords

12. Click SAVE. Figure 6 below shows the content Reactor – Hourly Temp and Level.

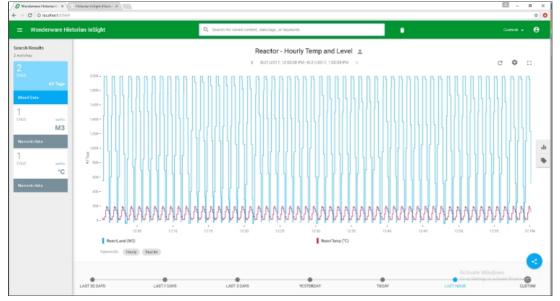


Figure 6: Completed InSight dashboard



13. Repeat the previous steps and select XY Plot to display TODAY's detail data for the tags: ReactLevel and ReactTemp in this example.

Content name:	Reactor – X	Y Plot
Keywords: Rea	ctor, Temp, I	Level, Hourly

Save		\times
Content Name		
Reactor - XY	Plot	Ē
Deserves		
Reactor ×		
Reactor ×	Conly Me Enable shareable link @	•

Figure 7: Keywords

14. Figure 7 (below) shows the content and Reactor - XY Plot:

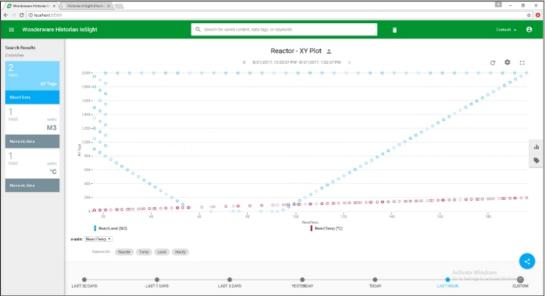


Figure 8: Completed dashboard

Note that the keyword Reactor is common for both contents Reactor – Hourly Temp and Level and Reactor – XY Plot.

15. Click the **Menu** icon then on **Manage Content** to show the contents you just created. In order to rename, copy, or remove content, click the vertical ellipsis on the far right of each of the contents.

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Wonderware Historian	nSight				θ
+					
My Content	Shared With Me	All Content			
Name 0			Nodified -		
Reactor - XY Plot			B/21/2017, 12:56:28 PM		
Reactor - Hourly Temp and Level			💼 8/18/2012, 8:3529 PM	Renome Make a cop Renove	μų

Figure 9: Rename, copy or remove content

Now you can combine your contents into a single view or dashboard.

16. Click on the **Menu** icon – **Home**, then enter the keyword (or keywords) in the search bar you want to associate with this dashboard. In this case, type **reactor**.



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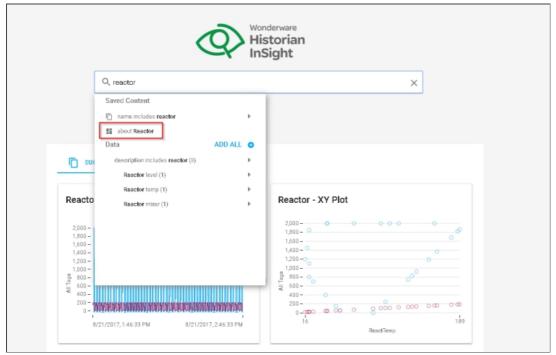


Figure 10: Search keywords

You see all contents that are associated with the keyword Reactor.

: Wonderware Historian InSight	Q [Search for saved content, data tags, or F	Î	Content 🗸 🧧
eactor Dashboard			∎ C :
Reactor - Hourly Temp	Reactor - XY Plot :		
2,000 - 1,800 - 1,600 - 1,400 - 1,200 -	2,000 - 00 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -		
1,000 8 800 - 6 600 - 2 400 - 0 - 0 -			
8/21/2017, 2:01:35 PM 8/21/2017, 3:01:35 PM ReactLevel (M3) ReactTemp (*C)	16 194 ResotTemp ReactLevel (M3) ReactTemp (*C)		

Figure 11: Reactor dashboard

17. Click the Share menu and click Save.



Save		\times
Content Name My Reactor D	ashboard	
Visible to:	Only Me	-

Figure 12: Save dashboard

ATTACHMENTS

http://okmgcs.km.invensys.com/resources/sites/KPKA/content/live/TN/2000/TN2885/en_US/~secure/{ "SECUREDRESOURCE": "Y" }

