

Advanced Diagnostic Honeywell Experion PKS Integration



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1 About

This document describes how to integrate the Pepperl+Fuchs Advanced Diagnostics into Honeywell Experion PKS environment. It also gives a brief overview about the integration concept and the included and required components to get a general idea of the system as a whole.

The integration concept comprises several software components:

- ADM Project Builder Honeywell

The ADM Project Builder Honeywell is a software tool that allows importing of the Fieldbus Topology Information from Experion to generate the FDS OPC Server and the Experion OPC Client configuration.

- FieldConnex Diagnostic Server with included OPC AE/DA server
 The FieldConnex Diagnostic Server (FDS) includes an OPC DA and OPC AE Server. This server provides events and information about the physical layer status of the segments monitored by the Advanced Diagnostic Module.
- Detail Display
 A Detail Display for Experion showing the general status of the Physical Layer for the segments monitored by the Advanced Diagnostic Module.
- FieldConnex Diagnostic ActiveX

The FieldConnex Diagnostic ActiveX is a component running within the Detail Display for Experion. It is used to configure the Pepperl+Fuchs ADM System and to monitor and analyze Physical Layer details.

See below a stylized overview, which software components are involved and where there are located.



The FDS runs on Automation Level 2 and receives diagnostic information of the ADMs via the FieldConnex Diagnostic Gateways. This Information is provided to the Experion Server using OPC AE and DA. This means: If the ADM detects a change of Physical Layer status an OPC AE event will be sent out from the FDS via OPC AE. This event will be shown as a system alarm within the alarm summary view.

The user gets more information like the cause of the problem and proposals how to solve the problem by using the Detail Display. On a maintenance tab the FieldConnex Diagnostic ActiveX will provide all features from the ADM like Expert System, Measurement, Diagnostic, Alarm History, Oscilloscope, etc.

2 Installation

2.1 Overview

Required Software

- Honeywell: Experion Release R400.1 or later
- Honeywell: ExperionPKS.R400.Server.Patch107.PAR1-GWBCY1
- Pepperl+Fuchs: ADM Integration Package Honeywell 1.0.0.* or later

The Pepperl+Fuchs ADM Integration Package Honeywell includes the following components:

- 1) FieldConnex Diagnostic Server (FDS)
- 2) ADM Project Builder Honeywell
- 3) Mapping File for Experion Server
- 4) Detail Display and FieldConnex Diagnostic ActiveX

These components may be running on one PC or on several different PCs as required.

Installation of FieldConnex Diagnostic Server (FDS)

Preconditions:

An account named **mngr** is required on the PC the FDS is running on. This account should have the same password as on the Experion Server to provide OPC access. This account must be a member of the Administrators group.

- 1) Install FieldConnexDiagnosticServerSetup.exe on a Server PC located at automation level 2.
- 2) Open the Start Menu and start Pepperl+Fuchs\FDS Control Center
- 3) From the Tools menu, select Settings...
 - a. Check the checkbox **Adjust firewall to allow remote access**. If this checkbox is greyed-out the Windows Firewall service is not running. In this case, remote access is possible as if the firewall was adjusted.
 - b. In the textbox Hostname for OPC clients, enter a hostname or IP address through which remote clients are able to connect to the FDS. Local IP addresses are shown in the main window of FDS Control Center

✓ Edit Settings	
Control Center Settings	
Start Control Center automatically:	
Minimize Control Center on startup:	M
FDS Settings	
Startup type:	C Start manually
	Start with Windows
	Start with Control Center
TCP port:	25061 Default
MODBUS read timeout:	300 ms
Adjust firewall to allow remote access:	
Hostname to read via OPC:	192.168.248.1
	OK Cancel

- 4) Press **OK** to apply the changed settings.
- 5) From the **Tools** menu, select **OPC Remote Access...** This opens the FDS OPC Remote Access Wizard that configures remote access to FDS.

6) Press Next



7) Choose user mngr.

Untick checkbox Allow anonymous access. Tick checkbox Execute FDS under the selected account.

📮 FDS OPC Remote Access Wizard	×				
Select user for remote access	đ				
To enable remote access for a local user please select the user from the list below. To enable remote access for a remote user (e.g. domain user) enter the name into the text box. The selected user must have a password set.					
Allow remote access for this user:					
jmngr 🔟					
Allow Anonymous access					
Execute FDS under the selected account					
< <u>B</u> ack <u>N</u> ext >	Cancel				

8) Press Next

9) Enter the password for the windows account **mngr** and press Next.

📮 FDS OPC Remote Access Wizard 🛛 🔀			
Enter password for	user account	कै	
Please enter the pa- service is run under.	ssword for the windows user account that the FDS		
Account:	mngr		
Password:	******		
Confirm Password:	******		
	< <u>B</u> ack	Cancel	

10) After configuration is completed press OK. Reboot the PC the FDS is running on to take over the new settings.



2.2 ADM Project Builder Honeywell

The ADM Project Builder Honeywell is a software tool that allows importing of the Fieldbus Topology Information from Experion to generate the configuration for the FDS OPC Server and the Experion OPC Client. This Program can be installed on any PC of your choice. Pepperl+Fuchs suggest to install it on the same PC as the FDS.

For installation execute ADMProjectBuilderHoneywellSetup.exe and proceed with the Installation Wizard.

2.3 Mapping File for Experion Server

Copy the file **FDSOPC.xml** supplied by Pepperl+Fuchs to the Experion PKS Server data mapping directory (e.g. "C:\ProgramData\Honeywell\Experion PKS\Server\Data\mapping\")

2.4 Detail Display and FieldConnex Diagnostic ActiveX

On each PC station install the detail display. To be able to access more advanced information beside the basic status, also install the FieldConnex Diagnostic ActiveX.

- 1) Copy the P+F detail display files to a folder where Experion PKS can find it (e.g. "c:\Program Data\Honeywell\Experion PKS\Client\Abstract\")
- 2) Execute the FieldConnexDiagnosticActiveXSetup.exe and proceed with the Installation Wizard
- 3) Start the Pepperl+Fuchs Activation Tool and enter the License Number



If there is a TCP/IP firewall between the station running the Diagnostic Manager ActiveX and the FDS PC, this firewall (see figure above) must be configured to let pass the FDS communication (default port is 25061). To change the default port values please refer to the manual Advanced Diagnostics of PepperI+Fuchs.

3 Initial Configuration

To get a general idea of the integration process the required steps are listed below in short:

- Export the Fieldbus Part of Project data from Experion
- Import this data into ADM Project Builder Honeywell. This tool creates two specific files for configuration of FDS and Points for integration of the Advanced Diagnostic into Experion PKS.
- Configure the FDS.
- Import the Points to the Experion configuration

3.1 Project Export and Conversion

- On Experion Server, open Configuration Studio and select Control Strategy > Configure process control strategies to open the Control Builder.
- 2. Right-Mouse Click on a Root within Project Assignment Window. Choose Export.

Select at least all **FIM4, FIM8, Fieldbus Devices and Templates for Fieldbus Devices**, select a directory to export to and press **Export.** Typically it is the best way to select all and export.

Points	Types 🔺	Select All			
	PEPPERL+FUCHS-GM				
	PEPPERL+FUCHS-GM	Select None			
CheckpointPreferen	PREFERENCES:CHEC				
FD0_VC_EX4_0_144	PEPPERL+FUCHS-GM				
FIM4_138	SYSTEM:FIM4				
Permissions	PREFERENCES:PERM				
SystemPreferences	PREFERENCES:SYSTEM				
)irectory:	FEFFERL+FUCHS-GMBH:FI				
C:\Users\PFUser\Documents\CBExport1\ Browse					
🔽 Overwrite Existing Files					
-	a 1 1				

Since there is a one-to-one relation between FIM and ADM, ADM Project Builder Honeywell tries to use the FIM's device index as ADM address for simplicity. However, this only works for device indices lower than 248. If there are device indices higher than that, ADM addresses will be assigned automatically starting from 1.

- 3. Close Control Builder.
- 4. Open P+F ADM Project Builder Honeywell.

5. Press Button **Import from Experion**, browse to the directory containing the exported FIM data and choose the file "Export.sl" to import the FIM data created before.

ADM Project Builder Honeywell
File Edit Help
Image: Transmission

6. Accept the imported data by clicking **OK** in the **Merge Result** dialog.

Merge Result	×
FIMs which will be added to the project:	
E −	
	OK Cancel
	Cancel

7. Drag&Drop the FIMs to the FDS Server node. For each FIM4 one entry with the TAG of the FIM is created. For each FIM8 two entries with the TAG of the FIM8 and the suffix A and B are created. Link 1-4 are connected to the entry with suffix A and 5-8 to the one with suffix B.

aDM Project Builder Honeywell *			
File Edit Help			
💕 😓 💩 🖎 🗃 💥 💁			
ADM Target Topology	Unassigned FIMs		
	Name	Index	
	FIM4_1	3	
	FIM4_101	43	
	FIM4_106	45 	
	FIM4_11	7	
	↑ F1M4_111	47	
	Fieldbus Topology Details		
1			

8. To set topology data: Right-Mouse Click on the FDS Port node. Choose **Change Address/Change Tag** and adjust FDS Port and network settings. Before exporting, all addresses must be assigned so that no warnings are shown.



aDM Project Builder Honeywell *			 ×
File Edit Help			
💯 🛃 💿 👒 🕼 🗶 👒 🖏			
ADM Target Topology	Unassigned FIMs		
Warning: The address is not set on one or more FDS Ports.	Name	Index	
E 💂 <fds>FDS Server</fds>	FIM4_106	45	
	FIM4_11	47	
Change Address			
Change Tag FIM4_1.FFLINK_3	Fieldbus Topology Details		
FIM4_1.FFLINK_4	🖂 🔩 FIM4_106		
EIIIIINK_5_ADM>FIM4_1.FFLINK_5 EIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			
	E FFLINK_108		
<pre>climits <2,FFLINK_103_ADM>FIM4_101.FFLINK_103</pre>			
S,FFLINK_104_ADM>FIM4_101.FFLINK_104 S			
	,		

9. Configure Assets

Without any further action all FF-H1 Segments monitored by the ADM belong to the system. If required it is also possible to assign them to Assets. Right-Mouse Click on an ADM or Segment node and select **Change Asset.** It is possible to enter an Asset here to create a scope of responsibility also for segments monitored by an ADM. If an Asset is set for an ADM this Asset is also valid for all of its segments.

10. Press Button Export Project.



11. Export setting window appears. Choose Output folder.

Export For Experion	1
General Settings Report Experion Fds Config	
Output folder: C:\Documents and Settings\Administrator\My Documents\config	
Cancel	

Within the Experion tab you may adjust the server alias (although it is recommended to use the default setting).

Export For Experion	×						
General Settings Report Experion F	ds Config						
Output	Output						
Filename	ADMPoints.pnt						
PointDetailDisplay	sysdtlopcPF						
ServerAlias	PF_ADM						
Filename							
Filename of the Honeywell Database file							
	Export Cancel						

12. Press Export

- 13. Save the Project Builder file for later changes (File Menu, save project file).
- 14. Close Honeywell Project Builder
- 3.2 Experion Server Configuration
- 1. At the Experion Server, open Configuration Studio. Choose System Interfaces > Configure system interfaces.



2. Double Click the Alias box within the System display tab.

🔂 Configuration Studio						
<u>File Vi</u> ew <u>T</u> ools <u>Wi</u> ndow <u>H</u> elp						
🛃 👍 Back 🔿 Eorward 🔯 💭						
💯 Configuration Explorer 🛛 🏘 System display						
📟 — System Configuration	System Inter	faces				
General System Hardware Connections Controller Interfaces	1	Type 	Alias -		Controllers	
Channels System Interfaces	2	•	-		Controllers	
OPC Integrator Consoles	3	•	-		Controllers	

3. From the System Interface Type drop down box, choose **OPCADVNCE** and press **Configure**.

😚 Configuration Studio		
<u>File Vi</u> ew <u>T</u> ools <u>W</u> indow <u>H</u> elp		
🛛 💑 🖕 🗛 📥 🚓 🔿 Eorward 🛛 🛃		
📁 💭 Configuration Explorer 🛛 🏀 System	display	
🖛 System Configuration	System Interface: 1	t
🗉 General	Configuration	
System Hardware Connections	System Interface	
Controller Interfaces Channels	Туре	Configure
System Interfaces	OPCADVNCE	
OPC Integrator		
Consoles	OPCDISPLAY	
Stations	OMA	
Flex Stations	UEC-870	
Console Stations		

- 4. On tab **Attribute Mapping**, enter **FDSOPC** as Mapping File.
- 5. On tab Configuration, enter Server Alias, Network Name and adjust Server ProgID settings.

Server Alias: Same entry as in the P+F Project Builder Software before (see step 11, default value is PF_ADM).

Network Name: IP-address of the FDS Server, the same entry as the **Hostname for OPC Clients** entered in FDS Control Center (see chapter 0).

Configuration Studio					
<u>File View T</u> ools <u>W</u> indow <u>H</u> elp					
🛛 💑 🖕 Back 👄 Eorward 🔯 💭 🛛	d				
📁 Configuration Explorer 🛛 🏘 System dis	splay				
System Configuration	OPC Advanced (Connection Alias: PF_	ADM		t
	Status	Configuration	Tuning	Attribute Mapping	Asset Mapping
⊞ General					
System Hardware					
Connections	Server Identity				
Controller Interfaces	Server Alias	PF_ADM	Enter t	he Server Alias for the OPC) server.
Channels			The Se	erver Alias will be used in an	y alarms or events
System Interfaces			associ	ated with the connection to t	he OPC server.
Controllers					
OPC Integrator	Data Source				
Consoles	Network Name	FDS Server			
Stations					
Flex Stations	Server ProgID	FDSOPCService.DA	-		
Console Stations					
Printers					
Redundant Server	Notification Sou	rce			
Distributed Servers	Network Name	FDS_Server			
Server Wide Settings				and the second se	
⊞ Profiles	Server ProgID	FDSOPCService.AE	-		

6. Change to the **Status** tab and check network and connection status. It might take a while for the OPC connection to start. Make sure the **Notifications Enabled** check box is ticked.



- 7. Close Configuration Studio.
- 8. Open windows Command Prompt.
- 9. Change to the ADM Project Builder Honeywell output folder using the **cd** command (i.e. "cd c:\Users\User\Documents\Export").
- 10. Use the command line executable **pntbld.exe** to import the point file **ADMPoints.pnt** from the ADM Project Builder Honeywell output folder by passing it as an argument:

pntbld.exe ADMPoints.pnt

- 11. Make sure there are no warnings or errors shown and close Command Prompt.
- 12. Keep ADMPoints.pnt for later removal of the points, rename it to CurrentADMPoints.pnt

3.3 FDS Configuration

- 1. On the PC the FDS is installed, open FDS Control Center.
- 2. Make sure FDS is running, if not, click **Start FDS** to start it.
- 3. Choose Import Config... from the Tools menu in the toolbar.

📮 FDS Control Center	
膨 Start FDS 📄 Stop FDS 💯 S	iettings 🔀 Tools 🗸 🕕 Info
FDS Information	Import Config
TCP port:	25061 OPC Remote Access
Startup Type:	Start with Windows
Read timeout:	300 ms
Diagnostic Manager dients:	not locked
Currently used FDS ports:	COM4 (open failed)
System Information	
Hostname:	HONEYTESTFDS
IP Addresses:	172.24.114.183
	Hide Exit
FDS is running	

4. Browse to the output folder of the ADM Project Builder Honeywell (see chapter 3.1) and open file Config.xml.

📮 Open		×
🕞 💽 📃 Desktop 👻	👻 🚱 Search	2
🕒 Organize 👻 🔛 Views	🔻 📑 New Folder	2
Favorite Links Desktop Computer Documents Pictures Music Recently Changed Searches Public	Name Image: Size Image: Type Image: Date modified Config XML Document 1.51 KB	
Folders ^		•
File name	Config Cancel	

Confirm the dialog box by clicking **OK**.

4 Modify Configuration

- 4.1 Export and Conversion
- On Experion Server, open Configuration Studio and select Control Strategy > Configure process control strategies to open the Control Builder.
- 2. Right-Mouse Click on a Root within Project Assignment Window. Choose Export.

Select at least all **FIM4, FIM8, Fieldbus Devices and Templates for Fieldbus Devices**, select a directory to export to and press **Export.** Typically it is the best way to select all and export.

Types 🔺	Select All
PEPPERL+FUCHS-GM	
PEPPERL+FUCHS-GM	Select None
PREFERENCES:CHEC	Sciectifione
PEPPERL+FUCHS-GM	
SYSTEM:FIM4	
PREFERENCES:PERM	
PREFERENCES:SYSTEM	
"PEPPERL+FUCHS-GMBH:FI	
ments\CBExport1\	Browse
25	
Cancel	
	Types PEPPERL+FUCHS-GM PEPPERL+FUCHS-GM PREFERENCES:CHEC PEPPERL+FUCHS-GM SYSTEM:FIM4 PREFERENCES:PERM PREFERENCES:SYSTEM "PEPPERL+FUCHS-GMBH:FI ments\CBE xport1\ Cancel

- 3. Close Control Builder.
- 4. Open ADM Project Builder Honeywell.
- 5. Open the Project saved during initial configuration

6. Press Button **Import from Experion**, browse to the directory containing the exported FIM data and choose the file "Export.sl" to import the FIM data created before.

ADM Project Builder Honeywell
File Edit Help
Import from Experion

7. Accept the imported data by clicking **OK** in the **Merge Result** dialog.

Merge Result	x
FIMs which will be added to the project:	
FIM4_1 FIM4_101 FIM4_106 FIM4_11 FIM4_11	
	OK Cancel

- 8. Modify the configuration as required
- 9. Export Project.
- 10. Save the Project Builder file for later changes (File Menu, save project file).
- 11. Close Honeywell Project Builder

4.2 Experion Server Configuration

- 1. Open windows Command Prompt.
- 2. Change to the ADM Project Builder Honeywell output folder using the **cd** command (i.e. "cd c:\Users\User\Documents\Export").
- 3. Use the command line executable **pntbld.exe** to remove old points import the point file **ADMPoints.pnt** from the ADM Project Builder Honeywell output folder by passing it as an argument:

pntbld.exe CurrentADMPoints.pnt -DEL

pntbld.exe ADMPoints.pnt

- 4. Make sure there are no warnings or errors shown and close Command Prompt.
- 5. Delete old CurrentADMPoints.pnt
- 6. Keep ADMPoints.pnt for later removal of the points, rename it to CurrentADMPoints.pnt

4.3 FDS Configuration

Proceed as described in chapter 3.3

5 Operation

1. If alarm message occurs with Location Tag PF_ADM

Station - Default - System Status(sysSys	stemSummary.htm) g	🕈 📴 Windows Server 2008 er	I	VM • 📴 🖒 • 💶 🗗 🗙				_ 8 ×
Station Edit View Control Action Config	ure <u>H</u> elp							
			o Ht • Command					
System Status								n Summary
Location View: (all alarms) *-	-			(Filter applied) 🧏 Clear All	Filters 🚺	Reset View		
Location Pane x	Status Pane x	Date & Time 🔻	Location Tag	Source	Condition	Priority Descrip	otion	Trip
Show All Locations HONEYTESTJA [local server] HONEYTESTJA [local server] Consoles Finiters Stations System Interfaces (2) COA Comms (1) COA Comms (1) COA Comms (1) COA Comms (1) COA Common (1) COA COA COMMENT COA COA COA COA COA COA COA COA COA COA	FFLINK 136 ADM Out of Specification	▲ 1/4/2011 16:50:52	AUM5	FFLINK_136_AUM	Diagnostic	H UU Out of 3	specification	
FFLINK 136 ADM								
System Management FTE Status								-
Unacknowledged alarms: 1	of 3				😥 Shelve Al	arm	😥 Unshelve Alar	m
Shelved alarms: 0	of 0				II Pause	Resume	Acknowledge	Page
	04-Jan-11 16:42:12	CDA Comms CDA C	OMMS U 00 Se	erver: Notifications from CE	DA UNAVAIL	ABLE	Stp01	Oper
Start OPosteingang - Mic	0.02.30 ommander 22 Team Agent	App note ADM	Windows Server 2	🤤 SnagIt Capture Pr 📑 AD	M Project Build	🛛 💽 🖂 🏹 🇞 🚺	Striut Striut Striut	Oper

2. Right-Mouse Click on the appropriate message and choose Detail Display.

		((Filter applied)	🔀 Clear All Filt	iers 🝼 I	Reset Vie	w 📰 🔲 💷	-	j 🎒	à
<	Date & Time ▽	Location Tag	Source		Condition	Priority	Description		Trip	<u>^</u>
ī	A 1/4/2011 16:50:52	ADM5_Joerg	M EELINIK 420	S ADM	liagnostic	H 00	Out of Specification	on		
		~	Acknowledge Al	larm						
		🔂	Quick Shelve Al	larm						
		🔁	Shelve Alarm							
		🔂	Unshelve Alarm							
		Q	Detail Display							
		Ø	Associated Dior	to the detail page of	f the selected a	larm				

3. Detailed Diagnostic Message appears

Station - Default - Point Detail:FFLINK_136_F	ADM(sysdtlopcPF.htm)		<u> 7 ×</u>
Station Edit View Control Action Configure	<u>H</u> elp - (23) ■ 111 ▲ ▼ √ 1	X 10 to Command	**
Fieldbus Diagnostic Detail		Location: /System Components/HONEYTESTJA/System Interfaces/PF_ADM/ADM5_Joerg_ADM	1
	Main	Maintenance	
FFLINK_130_ADM			
Out of Specification			
	State:	Out of Specification	
	Message ID:	2007	
	Phenomenon:	Segment specific Out of Specification Alarm raised by ADM	
FFLink Detail Display	Cause:	One or more of the physical layer values measured by the ADM for this fieldbus segment exceeds the limits set by the fieldbus specification	
<u>A</u>	Action:	Start the Diagnostic Manager for a detailed analysis	

		04-Jan-11 16:42:1	2 CDA Comms CDA	COMMS U	00 Server: Notifications from CDA	UNAVAILABLE		
Honeywell	04-Jan-11	17:01:24		System		honeytestja	Stn01	Oper
💐 Start 📙 🚠 📃	🏉 🔢 🏀 Station - D	Default - Poi					🗳 🗗 🛊	🄊 🖶 🌆 5:01 PM

4. To start the FieldConnex Diagnostic ActiveX, open the Maintenance tab



		04-Jan-11 16:42:1	2 CDA Comms CDA	COMMS	U 00 Server: Notifications from CDA	UNAVAILABLE		
Honeywell	04-Jan-11	17:02:14		System		honeytestja	Stn01	Oper
👌 Start 🛛 🚠 💻 🏉	🚷 Station - D	efault - Poi					🖉 🕀 (🔊 🖃 🆙 5:02 PM

6 Annex: Adding a link from FFLINK detail display to ADM detail display

- 1. Open program "HMIWeb Display Builder".
- 2. In HMIWeb Display Builder, open the file "sysdtlCLinka_fp.htm" from the Experion PKS Client System folder (e.g. "C:\Program Files\Honeywell\Experion PKS\Client\System\R400"):



3. Use the "Pushbutton" tool to create a new button:

🦸 HMIWeb Display Builder - sysdtlCLinka_fp.htm						
Eile Edit View Arrange Iransformations Tools Window Help						
▋▔▾ᄚᄆ┇╎兆ᅆᅊᇾᄣᆞᄵ▾ལ▾▤◙◨◙▁▥┉▫▾▯ॱॎ₶₶₶₨₨▾▾◢						
Object Explorer Image: SysdtlCLinka_fp.htm						
Image: Second secon						

4. Right-click the new button and select "Property Pages..." Change the button's properties:

😭 btnAdmDetailDisplay Properties	📔 😭 btnAdmDetailDisplay Properties 🛛 🔀
	Image: Sector in the secto
Enable tab stop Tab index.	
General Behaviors Details Shortcut Menu Colors Lines Font	General Behaviors Details Shortcut Menu Colors Lines Lines
Behaviors Details Shortcut Menu Colors Lines Font Eont: Size: Alignment: Helvetica 8 Center Arial 9 Init Init Arial 10 Courier Courier Courier New 12 Effects Effects Fixed sys Franklin Gothic Medium 20 Italic	
Georgia Helvetica Impact	

5. Right-click the new button and select "Edit Script..."

6. In Script Editor, paste this code into btnAdmDetailDisplay's function "onclick"

```
on error resume next
Dim myDetailPointId
Dim admDetailPointId
Dim pos
' get the detailPointId of the current FFLINK
myDetailPointId = window.external.DetailPointID
' and add the ADM suffix to get the admDetailPointId
' (default suffix is "_ADM" but this is configurable)
admDetailPointId = myDetailPointId + "_ADM"
' "type" the detailPointId of the ADM into the CommandZoneText box
window.external.CommandZoneText = admDetailPointId
' and open its detail display by invoking the menu item "Detail"
window.external.Application.Document.ParentWindow.external.InvokeMenu2
"Detail"
```

- 7. Save the file, close HMIWeb Display Builder.
- 8. Open station and go to an FFLINK detail display.

9.	Make sure the newly	added button	appears in the	left pane:
----	---------------------	--------------	----------------	------------

🚸 Station - Default - CFIM Link Detail	Display(sysdtlCLinka.htm)					
<u>Station Edit ⊻iew Control Action</u>	C <u>o</u> nfigure <u>H</u> elp					
↔ 🖸 🗖 🖬 🖬	🖸 • 🖻 • 😰 🛛 🔛 📥	▼ ✓ X 9,\$ Q 10	0% 🔹 Command		•	
CFIM Link Detail		Location :	/System Components/ESV-E	P1800/Controllers/FIM4	L_09	
FFLINK_1	Main	Advanced				
CLINK	Tag Name SEG State SEG Command	FFLINK_1		-		
# dev. 0	Link Number	0				
NVS% 0 VCRs 0.00000	Acting Primary Link M	ister				
	Schedule Optimization					
<u>A</u>	Link Schedule Optimization	OPT				
Advanced Diagnostics	Sample Skew	SKEW 💌				
Cm d.						
04-Oct-10 08:54:03 PF_ADM PF_ADM COMMS U 00 Server: Data from PF_ADM UNAVAILABLE						
Honeywell 04-Oct-10	10:35:12	System		esv-ep1800	Stn01 Oper	