<u>Tech Note 448</u> Configuring the SST5136SD PCI Card Using the New SSTDHP I/O Server or the DASDHPlus Server

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Topic#: 002153 Created: April 2006

Introduction

The SST5136SD PCI adapter card is similar to the Allen Bradley's 1784PKTX adapter card, and provides the interface between the HMI machine and the Allen Bradley Data Highway Plus protocol.

The SST5136SD PCI card supports DH+ 57.6, 115.2, and 230.4 baud rates used in Allen Bradley PLC families.

The main difference with SST5136SD PCI card is that there are no jumper settings for base memory and Card ID. The firmware provided by Wonderware's I/O Server for this PCI card automatically determines how many PCI cards are installed, and what base memory to use for each PCI card installed on the machine.

Note: The cables used for the SST5136SD PCI card and those used for AB1784PKTX PCI card are different: The SST cable is a cross-over version of the 1784 cable:



Application Versions

This *Tech Note* uses the following I/O Server versions:

- SSTDHP Version 8.1
- DASDHPlus Server Version 1.0

Assumption

- The user has basic knowledge in working with the Allen Bradley PLC series.
- The adapter card(s) had been successfully installed in the PC that is to be configured.

Note: Wonderware's I/O Servers and DAServers support multiple PCI adapters and dual-channel port adapter cards. However, the following bug was identified in the DASABDHPlus DAServer: The second PCI card cannot be configured properly (a CR has been created to fix this problem). This *Tech Note* demonstrates only the multiple PCI cards configuration with Wonderware's legacy I/O Server.

Configure the Interface SST5136 PCI Card Using SSTDHP I/O Server V8.1 (New Release)

Wonderware's new SSTDHP I/O Server V8.1 is the replacement for the SS5136SD I/O Server.

To check the version of this I/O Server, select **About SSTDHP** from the Help command in the main menu bar (Figure 2 below):

SSTDIP	Ο×
Configure Information Help	
Contents	
How to Use Help	
6bout SSTDHP	

Figure 2: Help/About SSTDHP

The **About SSTDHP** dialog box appears, containing the version number (Figure 3 below):

About SSTDHP		×
Wonderware	e I/O Server for SST DI	ΗP
Version: 8,1,	,0,0	
Copyright © 2005 I Reserved.PLC, PLI trademarks of Allen Data Highway Plus Allen-Bradley Comp This product is licer	nvensys Systems, Inc. / C-2, PLC-3, PLC-5 are r -Bradley Company, Inc. ; DH+ and SLC 500 are pany, Inc.	All Rights egistered e trademarks of
Company: SN: Expires:	N/A 822847 1-Mar-2007	
<u>V</u> iew License		<u>ОК</u>

Figure 3: About SSTDHP Dialog Box

Adapter Card Configuration

To configure the I/O Server, we'll begin with the Adapter Card Settings.

1. Select Configure/Adapter Card Settings from the menu bar.

The Adapter Card Settings dialog box appears.

If this is the first time you are configuring the I/O Server, click the **New** button to add a new card configuration (Figure 4 below):



Figure 4: New Adapter Card Dialog Box

2. Configure the Adapter Card settings as explained in the following section.

Note: The Modify button is available after creating a configuration.

In Figure 5 (below), the SSTDHP Adapter Card Settings dialog box contains the default Card Name of **Wonder0** for the first adapter card, with the parameters necessary to make the I/O Server work properly:

TDHP Adapter Card Settings		2
Card Name: Wonder0	_	OK
Card Parameters		Cancel
Firmware Loading: Config	ure	
Memory Base Address: 0000	×.	
I/O Port Base Address: 0:250	¥.	
Highway Parameters		
Card's Highway Address: 60	<u>Reply Timeout:</u> 3 sec	
Туре	Highway Speed	
C Data <u>Highway</u>	© 57.6 K Baud (Standard)	
Oata Highway Plus	C 230.4 K Baud	
Card Types		
CISA		
PCI 0-SS0_4	*	
0.550 4		

Figure 5: SSTDHP Adapter Card Settings Dialog Box

• The Memory Base Address and I/O Port Base Address options are disabled when the **PCI** option for the Card Types setting is selected.

• The Card's Highway Address must be unique but can be arbitrary between 0 and 77.

• **Reply Timeout** default value is **3 seconds**. SSTDHP I/O sever supports all 3 DH+ baud rate. However, the speed configured in this server must match the speed that is configured in the PLC processor.

• In the **Card Types** area, selecting the **PCI** option displays all available cards in the drop-down list, with a unique card id value.

For this *Tech Note*, 2 PCI cards are installed on the machine. Each Adapter Card Setting (**Wonder0** and **Wonder1**) points to a different card as shown in Figure 4 and Figure 5.

Note: if you do not see any card in the PCI card list, please check your card installation.

The following graphic (Figure 6 below) shows the **Wonder1** SSTDHP Adapter Card settings for the second adapter card:

SSTDHP Adapter Card Settings	×
Card Name: Wonder1	OK
Card Parameters	Cancel
Firmware Loading: Configure	
Memory Base Address: D000 💌	
1/0 Port Base Address: 0x250 💌	
Highway Parameters	
Card's Highway Address: 61 ▼ Reply Timeout: 3 sec	
Type Highway Speed	
C Data Highway C 57.6 K Baud (Standard) C Data Highway Dhu	
C 230.4 K Baud	
Card Turner	
Card Types	
C ISA	
• PCI 1-SS2_4	
0 · SSO_4 1 · SS2_4	

Figure 6: Wonder1 Adapter Card Settings Dialog Box

- 3. Press the **Configure** button. The **Firmware Configuration** dialog box appears (Figure 7 below).
- 4. Select the Load Firmware and Server Supplied options.



Figure 7: Firmware Configuration Dialog Box

Note that since the firmware is supplied by the Wonderware server, the LED pattern on the PCI card will not be the same as the manufacturer's description (from the manual).

The following table explains the LED pattern display in all combinations when using WW Server-supplied firmware:

	DH+ Cable Connected	No DH+ Cable
No Client Connected	Red LED ON solid, Green LED OFF	Red LED ON solid, Green LED OFF
Client Connected, No Data Request	Red LED OFF , Green LED ON solid	Red LED OFF , Green LED OFF
Client Connected and Polling Data	Green LED ON solid , Red LED ON flashing	Red LED OFF , Green LED OFF

5. Click **OK** to close the **Firmware Configuration** dialog box, then **OK** in the **SSTDHP Adapter Card Settings** dialog box.

This completes the Adapter Card configuration.

1. Select Configure/Topic Definition.

The **Topic** dialog box appears. If this is the first time you configuring the I/O Server, nothing appears in the **Topics** list panel.

2. Click the **New** button to create one or more topics. The topics are saved to the configuration file and can be modified later if required:

SSTDHP		_ D ×
Configure Information Help		
Adapter Gard Settings		
Topic Definition		
Server Settings		
	Topic Definition	
	Topics:	
	Done	
	New.	
	Modity	
	Delete	
	and the second sec	

Figure 8: Configure/Topic Definition

The **Topic Definition** dialog box appears containing the default topic name **ABPLC** (Figure 9 below).

This topic name can be changed arbitrarily; for this *Tech Note* the first **Topic Name** is renamed **ABPLCO**:

SSTDHP Topic Defin	ition	
<u>I</u> opic Name:	ABPLCO	OK
Adapter Card Name:	Wonder0	Cancel
PLC Family		Connect Type:
○ <u>SLC-500</u> ○ PLC- <u>2</u>	IC PLC-5 IF Supports PID and String Files	KE Bridge KA Bridge
C PLC-3	C PLC-5/250	jitro bildge
Network Addressing DH+	P Pic5 DH+ ode	Polling Discrete Read Block Size: 1920 Register Read Block Size: 120 Update Interval: 1000 msec

Figure 9: SSTDHP Topic Definition Dialog Box

- Each Topic must map to an Adapter card.
- The PLC Family area contains a list of all PLCs that are supported by this I/O Server.

• Note that with the **PLC5** family, if you need to work with the PID loops and String files, you must select the **Support PID and String Files** option. Other PLC families do not use this special parameter.

• For the **Connect Type** list, **Local** is the default selection for **PLC 5** and **SLC500** PLCs. If you are talking to other PLC family types, then you may have to use other connection types via different bridges.

Please refer to specific PLC family user's guide to determine the correct bridge to use.

Figure 10 (below) shows the second topic configured and using a different PCI card (Wonder1).

One very important parameter to mention is the Networking Addressing area, in which the DH+ Node

address is configured for the PLC: it must match the PLC address exactly.

SSTDHP Topic Defin	ition	
⊥opic Name:	ABPLC	ОК
Adapter Card Name:	Wonder1	Cancel
PLC Family		Connect Type:
C SLC-500	PLC5	Local
C PLC-2	Supports PID and String Files	KA Bridge
C PLC-3	C PLC-5/250	IKPO Bridge
Network Addressin	g	Poling
011		Discrete Read Block Size:
	88	1920
	265	Register Read Block Size:
i i)H+ Ioda	120
2		Update Interval:
	_	1000 msec

Figure 10: SSTDHP Topic Definition Dialog Box

This concludes our legacy I/O Server configuration.

Figure 11 (below) shows the **wwclient** test that indicates valid configurations and wwclient is receiving data updates from the PLC via our SSTDHP I/O Server, after completing its configuration:



Figure 11: wwClient Connection Test

Configure the Interface SST5136 PCI Card Using ABDHPlus DAServer

Wonderware's ABDHPlus DAServer can also be configured for use with the SST5136 PCI adapter to communicate with the PLCs running in the DH+ network.

Assumptions

This *Tech Note* assumes the following:

- Basic knowledge of the System Management Console (SMC).
- Successfully installed PCI adapter and the DASABDHPlus on the machine that is to be configured.

If the reader is not familiar with SMC and having trouble installing the DASABDHPlus, please contact your local distributor or Wonderware Technical Support for assistance.

- 1. Launch the SMC from **Start/Program Files/Wonderware**, then select **System Management Console** (SMC).
- 2. Expand the SMC to show DAServer Manager/Default Group/Local.
- 3. Locate Archestra.DASABDHPlus.1 as shown in Figure 12 (below):

SMC - [ArchestrA System Management Console (15L10	54)\DAServer Manager\Default Group\1	Local ArchestrA.DASABDHPlus.1]	
Bie Action Yew Belp			
Archestri System Manager Galaxy Database Manager Galaxy Database Manager Cofeed Galaxy Database Manager Cofeed Galaxy Database Manager Cofeed Galaxy Database Manager Cofeed Galaxy Database Manager Pation Manager	Component DASABOHPhus DASABOHPhus PlugInOPC PlugInODESL	Version 0075.0046.0029.0007 0465.003.0015.0001 0465.0125.0045.0014 0465.0125.0045.0014 0465.0125.0045.0014	Build Date November 7, 2003 March 6, 7, 2003 July 28, 2003 July 28, 2003
	•		<u> </u>

Figure 12: Archestra.DASABDHPlus.1

Some customers may find after they expand the Local object, there is nothing under it, even though the

installation of the DAServer is complete.

This is caused by the User's Account information mismatch. Please refer to **Technote 343**, **Setting up the DAServer Account for Administrator Privileges** for instructions on how to resolve that issue.

The SMC window displays information about the version and release data of the major .dll files being used by the DAServer. Please keep this information available if you need to contact Wonderware Technical Support for assistance with the DAServer.

- 4. Expand the **Archestra.DASABDHPlus.1** icon. The configuration object is directly underneath.
- 5. Double-click this icon to open the **Global Parameters** Editor panel (Figure 13 below):

🖉 SMC - [ArchestrA System Management Cons	ole (TSL1054)\DAServer Manager\Default G	roup\Local\ArchestrA.DAS	SABDHPlus.1\Configuration]	. O X
Ele Action Yew Help				
↔ → 				
ArchestrA System Management Console (TSL1054 Calaxy Database Manager	Node Type: \$R00T\$ De	limiter:		£ .
E Coal	Global Parameters			
ArchestrA.DASA6DHPlus.1 B- Configuration Jog Viewer	Device Group Update Interval (msec):	1000	Enable/Disable	
😑 🔛 Platform Manager	Slow Poll Interval (mosc)	10000	Case Sensitive	
	Transaction to Subscription Ratio	2	T Device Group Cache	
	Transaction Message Timeout (moec):	60000	E Simulation Mode	
	Server Protocol Timer (mosc):	50	🛱 System Items	
	Diagnostic Backlog Size:	0	P. Unique Device Groups	
	Poke Mode:	Transition Mode		
	<u>.</u>			

Figure 13: Global Parameters Editor

Global Parameters are used by all the objects within this DAServer. For the details of each parameter and their functions please refer to Tech Note 424, Working with DAServers.

Wonderware recommends leaving the default values for all the parameters except the **Diagnostic Backlog Size**.

- 6. Change to **10** or **20** from 0. This reserves the registers for future diagnostics.
- 7. Save your changes by clicking the **Save** icon in the upper right-hand corner of the SMC.
- 8. Right-click the **Configuration** icon in the SMC tree.
- 9. Select Add SSTPCI_CARD Object from the sub-menu (Figure 14 below):

SMC - [ArchestrA System Management Conso	le (TSLID54)\/DAServer Manager\/Default (iroup/(Local),ArchestrA.DA	SAEDHPlus.1\Configuration]	. D ×
Elle Action Yew Help				
← → ⑤ Ⅲ ⑦				
ArchestrA System Management Console (TSLD054 CAServer Manager CAServer Manager Coloriant Group Coloriant Group ArchestrA.DASABDH#ks.1 Coloriant Group Configuration	Global Parameters	timiter:	Enable/Dunable	
Log Vewer Add Pitt CAPD Hafform Manager Add Softect Cap Archive Conlig.	abort 200 Object Interval (mosc):	10000	Case Sensitive	
Use Anither Cr Delete Configure	nn to Subscription Ratio:	2	E Service Group Cache	
Gep. Zem.	on Message Timeout (msec)	60000	🖓 System Items	
	Server Protocol Timer (moec) Diagnostic Backlog Size	30	🖙 Unique Device Groups	
	Poke Mode:	Transition Mode		
4 14	<u> </u>			
Adds a SSTPCI_CARD Object under this hierarchy level				

Figure 14: Add SSTPCI_CARD Object

The New_SSTPCI_CARD_000 Parameters editor panel appears (Figure 15 below):

🖉 SMC - [ArchestrA System Management Cons	ole (TSL1054)\DAServer Manager\Default Group\Local\ArchestrA.DASA8DHPlus.1\Configuration\Ne 📰 🗙
Elle Action Yew Help	SMC - [ArchestrA System Management Console (TSLIC
⇔ → € 🗉 🗙 😭	
ArchestrA System Management Console (TSLI054) Galaxy Database Manager DAServer Manager Default Group Gefault Group Gefault Group	Node Type: SSTPCI_CARD Delimiter: .
Configuration Configuration Configuration New_SSTPCI_CARD_000 Platform Manager	Processor Type: SST 5136-SD (PCI) DH Plus Node Address: D Firmware Path: C:\Program Files\Wonderware\DAServer\DASABDHPlu PCI Card: 1SS2.4
	Maximum Queued Messages: 4 Connection Timeout 15 Sec Baud Rate © 57.6 K Baud (Standard) © 115.2 K Baud © 230.4 K Baud
×	

Figure 15: New...Parameters Editor Panel

• The **DH Plus Node Address** is the PCI card address installed in your PC. It can be arbitrarily defined between 0 - 77 but must be unique in the DH+ network.

• The Firmware Path field stores the location where the DAServer keeps the firmware for the PCI card.

• The **PCI Card** parameter displays all the available PCI cards installed in this machine. Recall that in this example, multiple PCI cards are supported with the DAServer.

Wonderware recommends keeping most parameters with their default value unless you are an experienced user who knows exactly the effect when changing each of them.

- The **Baud Rate** must match what is configured in the PLC.
- 10. Save your configuration.

The following prompt appears (Figure 16 below):

Warning	×
Adapter card parameters have changed. Please reboot machine Local for changes to take af	fect.
(OK	

Figure 16: Parameter Change Warning Prompt

- 11. Click **OK**, and complete the configuration before restarting your computer.
- 12. After the PCI Card object configuration is completed, right-click the PCI Card object in the SMC tree. For this *Tech Note*, add the PLC5 object. (Figure 17 below).
- 13. Select AddPLC5_DHP Object from the sub-menu.



Figure 17: Add PLC5 Object

The object's configuration editor panel appears (Figure 18 below):



Figure 18: New PLC5_DHP Object Configuration Editor Panel

To configure the DAServer to talk to a PLC5

1. Enter the DH Plus network address of the PLC in the DH Plus Node Number field.

This address must be matched with the same address in the PLC5 processor. Leave the other parameters in this window with the default values.

- 2. Select the **Device Group** tab.
- 3. Right-click within the **Device Groups** tab field, and select **Add** to add device group(s) (Figure 19 below):

SMC - [ArchestrA System Management Consol	e (TSLI054)DAServer ManagerDefault Grou	p\Local\ArchestrA.DASA8DHPlus.1\Con	figuration\Ne 💷 🗙
Elle Action Yew Help			
↔ → <a> 			
ArchestrA System Management Console (TSLIOS4)	Node Type: PLC5_DHP De	limite <i>r</i> : .	
ArchestrA.DASAEDHPlus.1	Name	Update Interval (mc)	
New_SSTPCI_CARD_000 New_PLCS_DHP_000 New_PLCS_DHP_000 Newer Platform Manager		Add Delete Modify. Edt Config Default Update Interval	
40 14			

Figure 19: Add Device Group

At least one device group must be created for each PLC configuration.

In Figure 20 (below), the default device group is named **Topic_0**; however, this name can be anything. For this *Tech Note*, it is named **PLC520**.

SMC - [ArchestrA System Management Cons	ole (TSLI054)\DAServer Manager\Default Group\)	Local', Archestr A.DASA	IDHPlus.1\Configuration\Ne
Elle Action View Help		SMC - [ArchestrA Sy	stem Management Console (TSLI054)(DAServ
← → ⑤ Ⅲ × ♂			
ArchestrA System Management Console (TSL3054) ArchestrA System Manager DAServer Manager	Node Type: PLCS_DHP Delin New_PLC5_DHP_000 Parameters Device Groups Name ICCS_C	iliter: . Update Interval (mo) 1000	
	L		

Figure 20: Default Device Group

Note: The Device Group to a DAServer is exactly the same as a Topic Name to a Legacy I/O Server.

Once the device group is created, the DAServer configuration is complete. One more step is required to run the DAServer online – to activate the DAServer.

4. Select the **Archestra.DASABDHPlus.1** icon, and right-click it. The available activation options are displayed in the dialog box (Figure 21 below).

Node Type: PLC5_DH	HP Delimiter: . Device Groups	<u> </u>
Name PL0520	Update Interval (mi	
	Node Type: PLC5_DI	Node Type: PLC5_DHP Delimiter: . New_PLC5_DHP_000 Parameters Device Groups Name PLC520 1000

Figure 21: DAServer Activation

5. Select Activate Server.

Note: By default the DAserver configuration file is saved with a predefined file name. In this case, the ABDHPlus DAServer file is called **DASABDHPlus.aacfg**. This file can be renamed arbitrarily to a customer-selected name but the file type must be **.aacfg**.

The configuration file is kept in the following location: **Program Files\Wonderware\DAServer\DASABDHPlus\Bin**.

It is possible to save multiple configuration files in this location. The DAServer has the option to select one particular configuration file to load and run it from a list of configuration files.

Figure 22 (below) shows 2 configuration files in the **Bin** folder.

🔯 C:\Program Files\Wonderware\DAServer\DASA	80HPlus\Bin			
Ele Edit Yew Favorites Icols Help				R
🔾 Back 🔹 🔿 🖌 🍞 🔎 Search 🌔 Folders 🚺	3 × 19 🖽 -			
Address C: Program Files Wonderware DAServer DA	SABOHPlus'(Bin			💌 🛃 Go
Folders X	Name	Size	Type ^	Date Modified
	Pintware DASABCHPlus.AAc(g DASABCHPlus.AAc(g DASABCHPlus.BR223712.AAc(g DASABCHPlus.eanul DASABCHPlus.eanul DASABCHPlus.exe ABCHPlus.fapirHelp.dl DASABCHPlus.exe ABCHPlus.fapirHelp.dl DeridgeCustomPackage.dl ConFIG_1785KA.dl CONFIG_180CL CON	2 KB 2 KB 37 KB 49 KB 45 KB 41 KB 37 KB 73 KB 73 KB 73 KB 73 KB 85 KB 85 KB 101 KB 92 KB 60 KB	File Folder AACFG File AACFG File AACFG File Application Application Extension Application Extension	4/12/2006 8:28 AM 4/13/2006 7:15 PM 4/13/2006 7:15 PM 3/6/2003 10:22 AM 7/31/2003 1:05 PM 3/6/2003 1:0:22 AM 7/31/2003 1:05 PM 7/31/2003 1:03 PM 7/31/2003 1:03 PM 7/31/2003 1:05 PM 7/31/2003 1:05 PM 7/31/2003 1:05 PM 7/31/2003 1:05 PM 7/31/2003 1:07 PM 7/31/2003 1:08 PM 7/31/2003 1:08 PM 7/31/2003 1:08 PM 7/31/2003 1:08 PM 7/31/2003 1:256 PM
Windows NT WindowsUpdate WindowsUpdate Windowsupdate	GobalCustomPackage.dl ProCustomPackage.dl SttCardCustomPackage.dl	45 KB 41 KB 49 KB	Application Extension Application Extension Application Extension	7/31/2003 1:09 PM 7/31/2003 1:09 PM 7/31/2003 1:09 PM
DAServer OASAUDHPlus OASAUDHPlus OB DEFENSION	Ar Setup.ico	1 KB 2 KB	Icon XLM File	3/6/2003 10:26 AM 3/6/2003 10:30 AM
Cocs ×	*[

Figure 22: Multiple Configuration Files

To select a different configuration file from the SMC

- 1. Deactivate the server first (or you will not be able to find the proper option list).
- 2. Locate the **Configuration** object.
- 3. Open it (double-click) to show the Global Parameters editor.
- 4. Right-click the right mouse button to display the option sub-menu.

5. Select Use Another Configuration Set (Figure 23 below).

Note that the caption bar at the bottom of the window reads: **Changes Configuration Set used by the DAServer**:

🖉 SMC - [ArchestrA System	Management Console (TSLID54)\DA56	erver Manager\Default Group\Local\Archestr	A.DASABDHPlus.1\Configu	ration]
Ele Action Yew Help				
⇔ → 💽 🖭 😰				
ArchestrA System Manageme B-B Galaxy Database Manage DAServer Manager	nt Console (TSLI054) #	Node Type: \$ROOTS De	limiter:	
Default Group	CARGARE - 1	Global Parameters		
B- Configure	Add PKT_CARD Object	Device Group Update Interval (moec):	1000	Enable/Disable
Platform Manager	Archive Configuration Set	Slow Poll Interval (moec):	10000	1 Cate Sen
	Use Another Configuration Set	dasabdhplus dasabdhplus_sr223712 Subscription Ratio:	2	C Device G
	Yew •	Transaction Message Timeout (msec)	60000	E Simulation
	0.04	Server Photocol Timer (msec):	50	🖓 System Itr
		Diagnostic Backlog Size:	20	I Unique D
		Poke Mode:	Transition Mode	
				<u> </u>
Changes Configuration Set used b	y the DAServer			

Figure 23: Use Another Configuration Set Sub-Menu Selection

When this menu command is selected, all the available configuration files in the **Bin** folder are listed, and the currently-loaded configuration set appears as disabled menu item.

Use the **Configuration** sub-menu to select any other configuration set and select it to load the different configuration set.

For this *Tech Note*, the wwClient utility is used to verify the connection to the PLC by obtaining data updates to the items being advised by the utility (Figure 24 below):

SMC - [ArchestrA Syst	em Management Console (TSL1054)/,DASer	ver Manager\Default Gr	oup\Local\ArchestrA.DASAB	DHPlus.1\Diagnostics]	_ O X
Elle Action Yew Help	•				
◆ → 💽 🖪 🖳	3	_			
ArchestrA System Manager Galaxy Database Mar DAServer Manager Default Group Cool Archestvi Archestvi Doso Covi Daserver Manager Default Group Covi Archestvi Doso Br Daserver Manager Daserver Manager	ement Console (TSL3054) hager A.DASABDHPlus.1 guration evv_SSTPCI_CARD_000 Mew_PLCS_DHP_000 Motics Jank Groups trutture transactions katistics lessages evrice Groups	Name Clent Groups Structure Structure Structure Statistics Messages Device Groups	Connections Connections Weekshowskidenside incluse (200	S.3 (MO3355541)	Register Advice Unadvice Request Unregister Poke AdviceEx UnadviceEx
	ge wonteen work of the out Gle Soript Connections 2em Belb OT Wacahoot*dasabdhpiku8PLC520 n7:1 20 ±23 25	0x00355648 47 19:26 53 0781 19:27 29:0781	04/13/2006 0x00c0 04/13/2006 0x00c0		

Figure 24: Wonderware Client on Advise

Figure 25 shows that when the DAServer is activated, the **Diagnostics** object is available in the SMC. 6 diagnostic components are available:

🖉 SMC - [ArchestrA System Management Console (TSL1054)	DAServer Manager\Default Gro	up\Local\ArchestrA.DASA8DHPlus.I\Diagnostics]	_ D ×
Ele Action Yew Help			
◆ → 💽 🔟 🖳 😤			
ArchestrA System Management Console (TSLIOS4) Galaxy Dutabase Manager Default Group Default Group ArchestrA.DASAIDHFlus.1 Configuration New_SSTPCI_CARD_000 Def Clert Groups Southure Southure Southure Default Size Device Groups Device Groups Device Groups Device Groups Device Groups Device Groups Device Groups	Name Clent Groups Structure Transactions Ratistics Messages Device Groups		
			1

Figure 25: Diagnostics List

Figure 14 (above) shows reserving the Backlog Size of 20. This parameter is used for monitoring the writing transactions.

Figure 26 (below) shows that for each poke command issue from the client (in this *Tech Note*, we have poked the register **N7:1** with one value from wwClient), each write is reported in an entry as a **Demand Write** transaction:

	-	tem	
Galaxy Database Manager Galaxy Database Manager Galaxy Database Manager Golderver Manager	Type Demand Write Demand Write	Connections Weenheathdasaledhplus(PLC520 0x000000648) Rem r.7:1 Value 123	Register Advise Unadvise Request Unregister Poke AdviseEx UnadviseEx Done
Wonderware Client	_		
101 Wooshort/deset/deset/plusPLC520 n7:1 123 ±23 26	0x00355649 170 19:28.45.0359 19:29.30.0781	04/13/2006 0x00c0 04/13/2006 0x00c0	200100

Figure 26: Transactions Entry

Other diagnostics components are outside the scope of the discussion in this Tech Note. For details on their use, see **Tech Note 424**, **Working with DAServers**.

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Tech Notes are published occasionally by Wonderware Technical Support. Publisher: Invensys Systems, Inc., 26561 Rancho Parkway South, Lake Forest, CA 92630. There is also technical information on our software products at www.wonderware.com/support/mmi

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