Application Note





This application note is provided for historical purposes only.

It was written for a much older version of the server and AN-X firmware and we cannot guarantee that it applies to the current versions.

This application note describes how to configure the Wonderware DASABCIP DAServer to access a PLC-5 using the AN-X-DHP module.

The AN-X-DHP emulates an ENBT and DHRIO module.

In this example, the AN-X is at node address 7 on Data Highway Plus and the PLC-5 is at node address 77.

Install the ABCIP DAServer supplied by Wonderware. Accept all default settings.

Run "Start -> Programs -> Wonderware -> System Management Console"

Use the following steps to configure it to access data on a PLC-5 using the AN-X-DHP.

Step	1:	Add	a	port	object
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🌈 SMC - [ArchestrA System Management Console (PTCRUZER)\DAServer Manager\Default Group\Local\ArchestrA.DASA8CIP.2\Configuration]			
Action Yiew 🗢 → 🗈 📧 😭			
Tree	🗸 Node Type: \$ROOT\$ Deli	limiter:	₽ ₽
Archestra System Management Console (PTCRUZER)	Node Type: SHOOTS Defi Global Parameters Device Group Update Interval (msec): Slow Poll Interval (msec): Transaction to Subscription Ratio: Transaction Message Timeout (msec): Server Protocol Timer (msec): Diagnostic Backlog Size: Poke Mode:	1000 Enable/Disable 10000 Case Sensitive 10000 Device Group Cache 2 Gimulation Mode 60000 System Items 50 Unique Device Groups 0 Display System Items	
Adds a PORT_CIP Object under this hierarchy level			

Step 2: Add an ENBT

💋 SMC - [ArchestrA System Management Console (CNET)\DA5erver Manager\Default Group\Local\ArchestrA.DASABCIP.3\Configuration\New_PORT_CIP_000]					
Action View ← → 1 🗈 🔃 🗙 😫					
Tree	🧼 Node Type: PORT_CIP Delimiter: .				
ArchestrA System Management Console (CINET) Console (CINET) Console (CINET) Console (CINET) Console (Console (CINET) Console (Console (CINET) Console (Console (CINET) Console (CINET) C	New_PORT_CIP_000 Parameters Port Type: CIP 000 Maximum Queued Msgs: 4				
Add ENB_CLX Object Add ENB_FLX Object Add ENB_CPLX Object Add ENB_CPLX Object Add ML_EN Object View Delete Rename Help					
Adds a ENB_CLX Object under this hierarchy level					

Step 3: Set the Host Name to the AN-X IP address

ØSMC - [ArchestrA System Management Console (CNET)\DA	Server Manager\Default Group\Local\ArchestrA.DASABCIP.3\Configuration\New_PORT_CIP_000\N	lew_EN 💶 🗙
Action View 🛛 🗢 🔿 🗈 📧 🗙 😫		
Tree ArchestrA System Management Console (CNET) □ □ Log Viewer □ □ □ Cog Viewer □ □ □ □ Cog Viewer	Node Type: ENB_CLX Delimiter: . New_ENB_CLX_000 Parameters	
Cocal Opened Log Files Default Group Default Group Local Local		
E ArchestrA.DASABCIP.3 E ArchestrA.DASABCIP.3 E Archew PORT CIP 000	Module Type: Ethernet Comm	
B- K New_ENB_CLX_000 ⊕- ∰ Diagnostics	Connection Timeout: 2000 MSec	

Step 4: Add a backplane

💋 SMC - [ArchestrA System Management Console (CNET)\DAServer Manager\Default Group\Local\ArchestrA.DASABCIP.3\Configuration\New_PORT_CIP_000\New_E					
Action View ← → 🗈 丽 🗙 😫					
Tree	🞲 Node Type: ENB CLX Delimiter: .				
Management Console (CNET)					
Log Viewer	Nous ENR CLV 000 Decembers				
E E Default Group					
Default Group					
ArchestrA.DASABCIP.3	Module Type: Ethernet Comm				
Configuration					
New_PORT_CIP_000	Host Name: 192.168.0.21				
New_I Reset					
Disable New_ENB_CLX_000	Connection Timeout: 2000 MSec				
Add DACKDI AND CLM Object					
ADD BACKPLANE_CLX ODJEC					
View	<u>▶</u>				
Delete					
Rename					
Help					
Adds a BACKPLANE_CLX Object under this hierarchy level					

Step 5: Add a DHRIO

🖉 SMC – [ArchestrA System Management Console	e (CNET)\DAServer Manager\Default Group\Local\ArchestrA.DASABCIP.3\Configuration\New_PORT_CIP_000\New_EN.
Action View $4 \Leftrightarrow \rightarrow 1$ $1 \Leftrightarrow 1 $	
Tree	Node Type: BACKPLANE CLX Delimiter: .
Tree	Reset Device Type: Backplane Disable New_BACKPLANE_CLX_000 Backplane Add LOGIXS000_CLX object Add CNB_CLX object Add CNB_CLX object View View View Pelete Rename Help Image: Classing Classi
Adds a DHRIO_CLX Object under this hierarchy level	<u>)</u>

💋 SMC – [ArchestrA System Management Console (CNET)\DASe	erver Manager\Default Group\Local\ArchestrA.DASABCIP.3\Configuration\New_PORT_CIP_000\New_EN.
Action View ⇐ ⇒ 🔁 📧 🗙 😰	
Tree	Node Type: DHRIO_CLXDelimiter: .
ArchestrA System Management Console (CNET) ArchestrA System Management Console (CNET) Copened Log Files DAServer Manager ArchestrA.DASABCIP.3 Configuration Mew_PORT_CIP_000 Mew_ENB_CLX_000 Mew_ENB_CLX_000 Add PORT_DHP Object View Delete Rename Help	Node Type: DHRIO_CLX Delimiter: . New_DHRIO_CLX_000 Parameters Module Type: DHRIO Slot Number: 0 DHRIO Slot Number: 4 DHRIO DHRIO Slot Number: 4
Adds a PORT_DHP Object under this bierarchy level	

Step 6: Add a Data Highway Plus port

Step 7: Set the port address to match the AN-X Data Highway Plus node address

🌠 SMC - [ArchestrA System Management Console (CNET)\D#	AServer Manager\Default Group\Local\ArchestrA.DASABCIP.3\Configuration\Net
Action View ← → 🗈 🖬 🗙 😫	
Tree	Node Type: PORT_DHP Delimiter: .
ArchestrA System Management Console (CNET)	New_PORT_DHP_000 Parameters Port Type: DH Plus Channel Number: Channel A C Channel B DH Plus Node Address: 7 (Octal) DH Plus Link ID: 1 (Decimal)
3	

Step 8: Add a PLC-5

🖉 SMC - [ArchestrA System Management Console (CNET)\DAServer Man	ager\Default Group\Local\ArchestrA.DASABCIP.3\Configuration\New_PORT_CIP_000\New_EN.
Action Yiew ← → 🗈 📧 🗙 😰	
Tree Image: Second console (CNET) Image: Second console (CNET) Image: Second console (CNET) <th>ode Type: PORT_DHP Delimiter: . RT_DHP_000 Parameters</th>	ode Type: PORT_DHP Delimiter: . RT_DHP_000 Parameters
Default Group Local Loc	Port Type: DH Plus Channel Number: Channel A O Channel B
Lingnostics Reset Diagnostics Reset Disable New_PORT_DHP_000 Add 0VCE_DHD_Ohten	DH Plus Node Address: 7 💌 (Octal)
Add SLC50 DHP Object Add SLC50 DHP Object Add M1785KA5_GWY Object	DH Plus Link ID: 1 💌 (Decimal)
View Delete Rename Help	
Adds a PLC5_DHP Object under this hierarchy level	

Step 9: Set the Data Highway Plus node to match the destination PLC-5 address

💋 SMC - [ArchestrA System Management Console (CNET)\DAServer Manager\Default Group\Local\ArchestrA.DASABCIP.3\Configuration\New_PORT_CIP_000\New_EN				
Action View ← → È 📧 × 2				
Tree	Node Type: PLC5 DHP Delimiter: .			
ArchestrA System Management Console (CNET)				
E- E Log Viewer	New PLC5 DHP 000 Parameters Device Croups Device Items			
E-Se Default Group				
Opened Log Files				
E-B DAServer Manager				
📄 📲 Default Group				
E - E Local	Processor Type: PLC-5			
New_PORT_CIP_000	DH Plus Node Address: 77 💌			
E New_ENB_CLX_000				
New_BACKPLANE_CLX_000	Reply Timeout: 15 Sec			
E Kew_PLC5_DHP_000				
🗄 🔠 Diagnostics				

Step 10: Click the Device Groups tab, add any required groups, set the name and update interval for each group.

🎻 SMC - [ArchestrA System Management Console (CNET)\DAServer Manager\Default Group\Local\ArchestrA.DASABCIP.3\Configuration\New_PORT_CIP_000\Ne					
Action View ⇐ → 🗈 🖬 🗙 😰					
Tree	🚺 Node Type: PL	C5 DHP Delimi	ter:.		
ArchestrA System Management Console (CNET) Default Group Default Group	New_PLC5_DHP_000 Para	meters Device Groups D	evice Items		
Opened Log Files	Name		Update Interval (ms)		
De D	test		100		
Default Group					
E Local					
- ArchestrA.DASABCIP.3					
Configuration					
New_PORT_CIP_000					
🖃 🔏 New_ENB_CLX_000					
New_BACKPLANE_CLX_000					
🖻 🔏 New_DHRIO_CLX_000					
New_PORT_DHP_000					
E New_PLC5_DHP_000					
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