

Tech Note 709

Recovering from Same-Server Standalone DAServer and DIOObjects Running on the Same Node

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Introduction

This *Tech Note* describes recovering a server that has a standalone DAServer and the matching DIOObjects deployed to the same node.

Installation Limitations

Having a mix standalone DAServers and DIOObjects on the same node is supported as long as they are not the same type of server. For example, you can install standalone DASMBTCP and deploy ABCIP DIOObjects on the same node; however, you cannot install DASABCIP and deploy ABCIP DIOObjects to the same node. If you do so, errors will occur and the server will not be functional.

If you already have a standalone DAServer installed on a node, it should be uninstalled before attempting to deploy same-server DIOObjects to that node.

Understanding DIOObject Deployment

When you deploy DIOObjects to a node, you are actually installing, configuring, and running the DAServer on that node. The DIOObjects within the galaxy then act as OPC Clients of the embedded DAServer. Therefore, if you deploy same-server DIOObjects to a node with the standalone DAServer already installed, you are actually attempting to install a second instance of the server with the program files located in different folders than the original location.

Undeploying and deleting DIOObjects does not remove the embedded DAServer from the node where the objects were deployed. You must undeploy the Platform to fully remove the embedded DAServer.

If you already have a DIOObjects deployed to a node, you need to undeploy the Platform before attempting to install a same-server DAServer to that node.

Errors

If the revision of DIOObjects deployed to a server are not the same as the installed standalone DAServer (for example ABCIP DIOObjects v4.0 deployed to a system running DASABCIP v3.5), the objects will deploy and may generate pop-up errors on deployment, but will not work and will generate the errors below. (Figures 1 and 2)

- Cannot register main window class
- DASABCIP /wwHeap_Free(19C970, 0001F8A0) invalid pointer

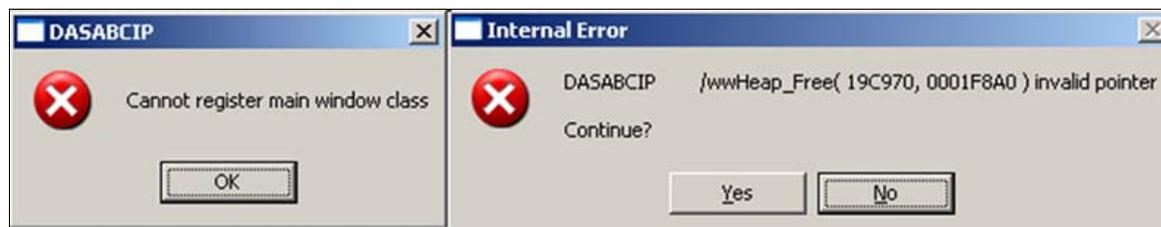


FIGURE 1: DEPLOYMENT OF MIXED VERSIONS

If the revision of DIOObjects deployed to a server are the same as the installed standalone DAServer (for example ABCIP DIOObjects v4.0 deployed to a system running DASABCIP v4.0), the objects will generally seem to deploy fine, but will not function and will generate the errors below. (Figure 2 below).

10490294	6/7/2010	10:35:49 AM	4952	3332	Error	DASEngine	Unknown error 0xC0000005 raised.
10490295	6/7/2010	10:35:49 AM	4952	3332	Error	DASEngine	Unknown error 0xC0000005 caught at line 6778 in TkIoCfg.cpp (in .!).
10490296	6/7/2010	10:35:49 AM	4860	3324	Warning	DASAgent	Server with GUID ('{EF3498CB-C49B-4AD2-00AD-E7A9DD32512E}') already registered in DAS ROT!
10490297	6/7/2010	10:35:49 AM	4952	3332	Warning	DASMBTCP	Unexpected activation sequence!
10490298	6/7/2010	10:35:49 AM	4952	3320	Info	UNKNOWNS	Wonderware SSC - Version 7,0,100,1 (3 : 1.1) (2 : 4.1) (3 : 5.0.97)
10490299	6/7/2010	10:35:49 AM	4952	3320	DACmnProt...	DASMBTCP	Valid license is available
10490300	6/7/2010	10:35:50 AM	4952	3332	Error	DASEngine	Unknown error 0xC0000005 raised.
10490301	6/7/2010	10:35:50 AM	4952	3332	Error	DASEngine	Unknown error 0xC0000005 caught at line 1211 in IotDbServer.cpp (in .!).
10490302	6/7/2010	10:35:50 AM	4952	3332	Info	PlugInOPC	ReadGlobalProperties(): Global property MaximumQueuedTransactions not present in aacfg file, lea
10490303	6/7/2010	10:35:50 AM	4952	3332	Info	PlugInOPC	OPC Client connection established, total = 1
10490304	6/7/2010	10:35:50 AM	4952	3864	DACmnProt...	DASEngine	Using an access path or topic, the fastest OPC client group update interval is currently 0 ms. With r
10490305	6/7/2010	10:35:50 AM	3564	4532	Info	IOHierarchy P...	Creating or opening registry key 'HKEY_LOCAL_MACHINE\Software\Archestra\DA Servers'...
10490306	6/7/2010	10:35:50 AM	3564	4532	Info	IOHierarchy P...	Key was successfully created or opened.
10490307	6/7/2010	10:35:50 AM	3564	4532	Info	AppEngine_0...	AppEngine_001: Full deployment ended for 1 object(s). The engine hosts 1 object(s).
10490308	6/7/2010	10:35:50 AM	1280	5628	Info	ApplicationCa...	Deploying application object(s) to engine "AppEngine_001" (id:2) on platform "WinPlatform_001" (id
10490309	6/7/2010	10:35:54 AM	1280	5628	Info	ApplicationCa...	[1] Deploying 1 object(s) offscan to engine "AppEngine_001" (id:2) on platform "WinPlatform_001" (id
10490310	6/7/2010	10:35:54 AM	3564	4532	Info	AppEngine_0...	AppEngine_001: Full deployment started for 1 object(s). The engine hosts 1 object(s).
10490311	6/7/2010	10:35:54 AM	4952	3864	Error	DASEngine	Unknown error 0xC0000005 raised.
10490312	6/7/2010	10:35:54 AM	4952	3864	Error	DASEngine	Unknown error 0xC0000005 caught at line 2536 in IotServer.cpp (in .!).
10490313	6/7/2010	10:35:54 AM	4876	3744	Warning	DASConfigAcc...	[OnConfigChange] Server failed (hr = 0xc0000005) the hot configuration notification.
10490314	6/7/2010	10:35:54 AM	4952	4996	Error	DASEngine	Unknown error 0xC0000005 raised.
10490315	6/7/2010	10:35:54 AM	4952	4996	Error	DASEngine	Unknown error 0xC0000005 caught at line 2536 in IotServer.cpp (in .!).
10490316	6/7/2010	10:35:54 AM	4876	3744	Warning	DASConfigAcc...	[OnConfigChange] Server failed (hr = 0xc0000005) the hot configuration notification.
10490317	6/7/2010	10:35:54 AM	4952	3332	Error	DASEngine	Unknown error 0xC0000005 raised.
10490318	6/7/2010	10:35:54 AM	4952	3332	Error	DASEngine	Unknown error 0xC0000005 caught at line 2536 in IotServer.cpp (in .!).
10490319	6/7/2010	10:35:54 AM	4876	3744	Warning	DASConfigAcc...	[OnConfigChange] Server failed (hr = 0xc0000005) the hot configuration notification.
10490320	6/7/2010	10:35:54 AM	4952	3864	Error	DASEngine	Unknown error 0xC0000005 raised.
10490321	6/7/2010	10:35:54 AM	4952	3864	Error	DASEngine	Unknown error 0xC0000005 caught at line 1211 in IotDbServer.cpp (in .!).
10490322	6/7/2010	10:35:54 AM	4952	3864	Info	PlugInOPC	OPC Client connection established, total = 2
10490323	6/7/2010	10:35:54 AM	4952	3332	DACmnProt...	DASEngine	Using an access path or topic, the fastest OPC client group update interval is currently 0 ms. With r
10490324	6/7/2010	10:35:54 AM	3564	4532	Info	IOHierarchy P...	Creating or opening registry key 'HKEY_LOCAL_MACHINE\Software\Archestra\DA Servers'...
10490325	6/7/2010	10:35:54 AM	3564	4532	Info	IOHierarchy P...	Key was successfully created or opened.
10490326	6/7/2010	10:35:54 AM	3564	4532	Info	AppEngine_0...	AppEngine_001: Full deployment ended for 1 object(s). The engine hosts 2 object(s).
10490327	6/7/2010	10:35:54 AM	1280	5628	Info	ApplicationCa...	Setting 2 object(s) onscan on engine (id:2) platform (id:1)
10490328	6/7/2010	10:35:55 AM	4952	3864	Warning	DASEngine	Unable to add item 'ModbusEnet_001.\$sys\$updateInterval' with access path 'ModbusEnet_001_'
10490329	6/7/2010	10:35:55 AM	1280	5616	Info	WWWPackage5...	Finished deploying 4 objects.
10490330	6/7/2010	10:35:55 AM	4952	3332	Warning	DASEngine	Unable to add item 'ModbusEnet_001.ModbusEnetPLC_001.\$sys\$updateInterval' with access path
10490331	6/7/2010	10:35:56 AM	4952	3332	Warning	DASEngine	Unable to add item 'ModbusEnet_001.ModbusEnetPLC_001.\$sys\$updateInterval' with access path
10490332	6/7/2010	10:35:57 AM	4952	4996	Warning	DASEngine	Unable to add item 'ModbusEnet_001.\$sys\$status' with access path "
10490333	6/7/2010	10:35:57 AM	4952	4996	Warning	DASEngine	Unable to add item 'ModbusEnet_001.\$sys\$errorCode' with access path "
10490334	6/7/2010	10:35:57 AM	4952	4996	Warning	DASEngine	Unable to add item 'ModbusEnet_001.\$sys\$errorText' with access path "

FIGURE 2: COMMON ERRORS WITH SAME-SERVER STANDALONE DAsSERVER AND DIOBJECTS RUNNING ON THE SAME NODE

The following are common errors indicating that same-server DAsServer and DIOObjects are running on the same node:

- **Server with GUID ('{xxxx-xxxx-xxxx-xxxx-xxxx}') already registered in DAS ROT!**
- **Unknown error 0xC0000005 raised**
- **System items (\$sys\$xxxx) are bad**

Recovery

Complete these steps to recover in the case where you have installed same-server DAsServer and DIOObjects on the same node.

1. Close the System Management Console (SMC).

2. Undeploy the Platform hosting the DIOjects.
3. Install the standalone DAServer.

Sometimes this will not work. If that happens, skip to step 4.

4. Uninstall the standalone DAServer.
5. Open the SMC and verify that there are no longer any references in the DAServer Manager to the server you are trying to use.

- If references exist, try to install and uninstall the standalone DAServer again. If that still does not clear the references to the server in the SMC, please contact [Wonderware Technical Support](#).

6. Deploy the Platform and DIOjects OR reinstall the standalone DAServer.

If you choose to use the standalone version, delete or reassign the DIOjects within the IDE to make sure they are not accidentally deployed again to this node.

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