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Topic#: 002795 Created: July 2013

Introduction

This *Tech Note* outlines the requirements and steps required to migrate previous versions of an Application Server Galaxy to ArchestrA System Platform 2012 R2 (Application Server 3.6).

Note: If you have a large Galaxy you should review Tech Note 921 Optimizing SQL Server for Large Galaxy Migration.

Application Versions

• Wonderware Application Server 3.6

Pre-Requisites

Make sure the following pre-requisites are satisfied:

- You must apply the following steps **offline**. This means that you have to UN-Deploy the Galaxy before migration to avoid any problems during the migration process.
- The IDE you use to migrate the Galaxy database must be the current version (3.6).
- The GR node must already be upgraded to the current version (3.6).
- Make sure that all connections to the Galaxy database are closed before migrating the database.
- Only the following (previous) Application Server Galaxy versions can be migrated to version 3.6:
 - Version 3.0 SP2
 - Version 3.1
 - Version 3.1 SP1
 - Version 3.1 SP2
 - Version 3.1 SP2 Patch 01
 - Version 3.1 SP3
 - Version 3.1 SP3 Patch 01
 - Version 3.2
 - Version 3.5

- Version 3.5 Patch 01
- Before migrating your Galaxy, you should clean up your Galaxy using Tech Note 930 Wonderware System Platform Clean-up Guide.

Galaxy Migration Scenarios

There are two scenarios for migration:

- Migrate a Galaxy from a Galaxy Backup File: You have a Galaxy backup (.cab) from one of the supported Application Server older versions and you need to restore and migrate it to a machine that has Application Server 3.6.
- Migrate an Existing Galaxy After Upgrading Application Server to 3.6: You have a machine that has an old version of Application Server (and Galaxy) created on it and you want to upgrade the machine to Application Server to Application Server 3.6.

Migrate a Galaxy from a Galaxy Backup File

If you have Galaxy backup file that has been create with supported Application Server old version and you want to migrate that Galaxy to be Application Server 3.6.

1. Copy the Galaxy backup (.cab) file to **Program Files (x86)\ArchestrA\Framework\Bin\BackupGalaxies** folder.

For 32-bit systems copy the backup file to **Program Files\ArchestrA\Framework\Bin\BackupGalaxies**.

🕌 BackupGalaxies				
C:\Program F	iles (x86)\ArchestrA\Framework\Bin\BackupGalaxies	💌 🛃 Sea	rch BackupGalaxies	<u> </u>
Organize 👻 Include in libra	ry ▼ Share with ▼ New folder			= • 🔟 🕡
🔆 Favorites	Name ^	Date modified	Туре	Size
🧮 Desktop	Base_Application_Server	11/17/2012 7:12 AM	Cabinet File	75,229 KB
Downloads	🔠 Base_InTouch	11/17/2012 7:20 AM	Cabinet File	57,113 KB
Recent Places	Reactor_Demo_Application_Server	11/17/2012 7:33 AM	Cabinet File	81,769 KB
🚍 Libraries	Reactor_Demo_InTouch	11/17/2012 7:42 AM	Cabinet File	37,990 KB
Documents	🖹 test	3/28/2013 4:41 PM	Cabinet File	64,863 KB
J Music				
Pictures				
💾 Videos				
		<u>N</u>		
Local Disk (C:)		2		
CD Drive (D:) Invensy				
🛀 Network				
5 items				

FIGURE 1: GALAXY BACKUP FILE LOCATION

2. From the **Start** menu, click Wonderware/ArchestrA IDE. The **Connect To Galaxy** window appears.

🔀 Connect To Galaxy			×
AND	GR node name: Galaxy name: License Informatio Type: Number: Vendor: Product text: Expiry date: Notice text:	EGYMO2008	Connect New Galaxy Delete Galaxy About Cancel

FIGURE 2: CONNECT TO ARCHESTRA IDE

3. Click New Galaxy and click the Galaxy backup .cab file from the list.



FIGURE 3: NEW GALAXY FROM BACKUP

4. Ensure that you give the new Galaxy the same name as the old Galaxy, then click Create.

🔀 Connect To Galaxy					X
Nev	GR node r Galaxv na v Galaxy	name: EGYMO20 ime:	008	• •	Connect New Galaxy
	GR node name: Galaxy name: Galaxy type:	EGYMO2008 test test.cab	2		About
autrecziume a		26561 R/ LAKE FO	ANCHO PKWY SOUT		
PRCHEST		California	a	-	

FIGURE 4: NAME THE GALAXY WITH THE OLD GALAXY NAME

5. After the Galaxy Create operation is 100% completed click **Close**.



FIGURE 5: CREATE GALAXY OPERATION IS COMPLETED

6. Connect to the new Galaxy.

💥 Connect To Galaxy			X
Connect to dataxy	GR node name: Galaxy name: License Informatio Type: Number: Vendor: Product text: Expiry date: Notice text:	EGYMO2008	Connect New Galaxy Delete Galaxy About Cancel

FIGURE 6: CONNECT TO THE NEW GALAXY

When you click **Connect** you will see the following message. Click **Yes** to start the migration.



FIGURE 7: ARCHESTRA IDE MIGRATION MESSAGE

7. Wait until the Galaxy migration is finished.



FIGURE 8: MIGRATION IN PROGRESS

8. After the migration is **Done** click **Close**.

Migrate Galaxy	
Successfully migrated galaxy test on EGYMO2008.	
Importing ClientControl.aaPKG	
Importing ArchestrASymbolLibrary.aaPKG	
Importing SQLData.aaPKG	
Importing AlarmClient.aaPKG	
Importing TrendClient.aaPKG	
Importing aaDBIntegration.aaSLIB	
Default ASB Service Instance Creation is started.	
Done	<u>_</u>
100% completed	
	Close

FIGURE 9: MIGRATION DONE

9. The new Galaxy version opens in the IDE.



FIGURE 10: NEW GALAXY IN THE IDE

Migrate an Existing Galaxy After Upgrading Application Server to 3.6

After upgrading Application Server from a supported old version to 3.6, complete the following steps to migrate the Galaxy.

1. From the Start menu, click Wonderware/ArchestrA IDE.

💢 Connect To Galaxy			X
	GR node name:	EGYMO2008	Connect
6	Galaxy name:	test	New Galaxy
	License Informatio	n	Delete Galaxy
	Туре:	Fs Dev License	
	Number:	1345587	
	Vendor:	Invensys Systems, Inc.	About
MAPO	Product text:	IDE_Runtime, version 3.6	Cancel
	Expiry date:	15-jan-2014	
Suffreerung g	Notice text:	Wonderware Demo License File 26561 RANCHO PKWY SOUTH LAKE FOREST California	

FIGURE 11: CONNECT TO A GALAXY

2. Select your Galaxy from the Galaxy name list and click Connect.

💥 Connect To Galaxy			×
ANTECTOR RECTOR	GR node name: Galaxy name: License Information Type: Number: Vendor: Product text: Expiry date: Notice text:	EGYMO2008 test test Fs Dev License 1345587 Invensys Systems, Inc. IDE_Runtime, version 3.6 15-jan-2014 Wonderware Demo License File 26561 RANCHO PKWY SOUTH LAKE FOREST California v	Connect New Galaxy Delete Galaxy About Cancel

FIGURE 12: CONNECT TO THE GALAXY

3. The following message appears. Click **Yes** to migrate the Galaxy.



FIGURE 13: ARCHESTRA IDE MIGRATION MESSAGE

4. Wait until the Galaxy migration is finished.

Migrate Galaxy	
Migrating galaxy test on EGYMO2008	
Migrating \$_AutoImport and all derived objects Migrating \$_DiCommon and all derived objects Migrating \$WinPlatform and all derived objects Migrating \$AppEngine and all derived objects Migrating \$Area and all derived objects Migrating \$AnalogDevice and all derived objects Migrating \$DDESuiteLinkClient and all derived objects Migrating \$DiscreteDevice and all derived objects Migrating \$FieldReference and all derived objects Migrating \$FieldReference and all derived objects Migrating \$InTouchProxy and all derived objects Migrating \$RedundantDIObject and all derived objects Migrating \$RedundantDIObject and all derived objects Migrating \$Switch and all derived objects Migrating \$UserDefined and all derived objects	
Migrating \$Symbol and all derived objects	
61% completed	
	Cancel

FIGURE 14: MIGRATION IN PROGRESS

5. After the migration is finished, click **Close**.

Migrate Galaxy	
Successfully migrated galaxy test on EGYMO2008.	
Migrating \$SQLData and all derived objects	_
Importing Symbol aaPKG	
Importing ViewEngine aaPKG	
Importing InTouchViewApp.aaPKG	
Importing Sequencer.aaPKG	
Importing ClientControl.aaPKG	
Importing ArchestrASymbolLibrary.aaPKG	
Importing SQLData.aaPKG	
Importing SQLDataGrid.aaPKG	
Importing AlarmClient.aaPKG	
Importing TrendClient.aaPKG	
Default ASB Service Instance Creation is started	
Done	
Conc	_
100% completed	
	Close
	//

FIGURE 15: MIGRATION DONE

The new Galaxy version opens in the IDE.



FIGURE 16: NEW GALAXY IN THE IDE

Possible Issues

You might encounter the following issues during or after the Galaxy migration.

After the migration, if you discover that some objects lose their derivation from properties, complete the following steps.

- 1. Export the templates and instances that are having the issue from the old Galaxy version.
- 2. Import the package to a new temp Galaxy on Wonderware Application Server 3.6.
- 3. Export the templates and instances from the new temp Galaxy.
- 4. Migrate the original Galaxy and delete the templates and instances that are not migrated.
- 5. Import the package created from step 3 (above) to the new Galaxy.

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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 Wonderware Technical Support.

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