Tech Note 485 Installing ArchestrA License Server

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Introduction

This Tech Note explains the ArchestrA License Server installation and configuration procedure.

Application Versions

Wonderware products that utilize ArchestrA License Server. For example, ActiveFactory 9.2, Wonderware Information Server 3.0.

Wonderware License Files Overview

As of February 2007 there are 3 types of license files in the new Wonderware licensing system:

- WWSuite.lic: License file for older versions of Wonderware FactorySuite 2000 and FactorySuite A2 generation products. This includes InTouch® 9.5, InBatch 8.0, InSQL 9.0, installed on the local system.
- ArchestrA.lic: New license file for new versions of Wonderware products starting with Active Factory 9.2 and Wonderware Information Server 3.0 **Per Device**, installed on the local system.
- ArchestrAServer.lic: New license file installed on computer selected as the license server. Includes the license for ActiveFactory 9.2 and Wonderware Information Server 3.0 Concurrent, Named Device or Named User.

You can find Archestra License Manager installation files on the Wonderware ActiveFactory 9.2 installation CD and the Wonderware Information Server 3.0 installation CD. They are located in the **License Server** folder.

1. Run **Setup.exe** to begin the installation of ArchestrA License Server. The the following splash screen appears:



Figure 1: License Server Splash Screen

2. Click **Next**, then select the default settings throughout the installation process.

🚽 ArchestrA License Server Setup
License Agreement You must agree with the license agreement below to proceed.
Wonderware End User License Agreement
Revised: March 2005 IMPORTANT, READ CAREFULLY. THIS WONDERWARE LICENSE AGREEMENT (THE "AGREEMENT") IS A BINDING CONTRACT BETWEEN YOU, THE END-USER (THE "LICENSEE") AND INVENSYS SYSTEMS, INC. ("WONDERWARE" OR THE "LICENSOR"). EXCEPT TO THE EXTENT YOU ARE BOUND BY A WRITTEN AGREEMENT SIGNED BY BOTH YOU AND WONDERWARE REGARDING THE USE AND LICENSE OF THIS SOFTWARE PRODUCT, BY INSTALLING OR USING THIS SOFTWARE PRODUCT, YOU, THE LICENSEE, ARE AGREEING TO BE BOUND BY THE TERMS, CONDITIONS AND LIMITATIONS OF THIS AGREEMENT, WHICH INCLUDES, BUT IS NOT LIMITED TO, THE SOFTWARE USAGE LICENSE, THE DISCLAIMER OF WARRANTY AND LIMITED WARRANTY, AND LIMITATION OF WONDERWARE'S LIABILITY.
Print License I accept the license agreement I do not accept the license agreement
< Back Next > Cancel

Figure 2: Wonderware End User License Agreement

3. Click Next.

🔂 ArchestrA License Server Setup	
Select Features Following feature will be installed.	invensys.
ArchestrA License Server	Feature Description: ArchestrA License Server This feature will be installed on the local hard drive This feature requires 21MB on your hard drive.
Current location: C:\Program Files\ArchestrA\	Browse
Disk Cost Reset	< Back Next > Cancel

Figure 3: Select Features Wizard

4. Click Next.

	_ 🗆 🗙
	Honderware
information or click Ca	ancel to exit
iestrA License Server a vstem:	and will be installed:
C Pack	Jevt > Cancel
	information or click Ca lestrA License Server a listem:

5. Click **Next**. When the installation process is complete, the **Success** message appears (Figure 5 below).



Figure 5: Successful Installation

6. Click Finish. The ArchestrA License Manager main window appears with the available license files.



Figure 6: Choose a License File to Install

If the **Choose a License File** window does not appear, click **File/Install License File** from the ArchestrA License Manager main menu (Figure 7 below).

🚰 ArchestrA License Manager						×
File Search Components Options He	lp					
Install License File						
Install License File Remotely			Dennis	Commenter		
Add License Server Add License Server Remotely	pnent Name	Type	Domain	Computer	Licer	ise Pa
Manage License Server Re-Read License File						F
Delete Remove Remote Computers from View						
Export to CSV File						
Exit						
Log						
Copying C: \Documents and Settings \Admini File has been successfully copied Component 'aaFS A2 Internal Use 30-Day D	strator (My Documents (Lice) Nemo of Serial Number XXX	enses\ArchestrAServ	er.lic to C:\ d on XPMAS	Program Files\Cor TER	mmon File.	
Install license file on this computer					NUM	- /

Figure 7: File/Install License File

Installing WWSuite.lic and ArchestrA.lic Local License Files

The installation procedure for WWSuite.lic and ArchestrA.lic license files is similar to the procedure used in the License Utility (previous version of ArchestrA License Manager).

• Click File/Install License File from the main menu, and select the appropriate license file.

Local License files selected by the user will be saved inside License Files folder under the name **Local**. The following figure shows correctly installed local licenses.

ArchestrA License M	lanager					_ 🗆 🗙
File Search Component	s Option	s Help				
🗿 🏽 🗶 🔳	1	8				
Searched Machines	Count	Component Name	Type	Domain	Computer	License Pa
HIGDUBIEL	1	aaFS A2 Internal Use 30-Day Demo FS A2 Internal Use 30-Day Demo	Local Local	MGD MGD	XPMASTER XPMASTER	C:\Program C:\Program
	•					F
	License Features of Component 'aaFS A2 Internal Use 30-Day Demo of Serial Number 888479'					
	FEATURE ActiveFactory Wonderware 9.2 29-apr-2007 uncounted HOSTID=ANY \ ISSUER="Invensys Systems, Inc." NOTICE="Wonderware Demo \ License File 26561 RANCHO PKWY SOUTH [LAKE \ EORESTICalifornia 92630 UNITED STATES Not for Resale" \					
	SN=8 C223	88479 SIGN="00A0 CB69 4BAC 354C 78 700A 8D9D CB5C 11B4 4CD9"	C0 85FD 15	86 5A00 621	IC \	<u>.</u>
Log						
Copying C: \Documents an File has been successfully	d Settings\ copied	Administrator\My Documents\Licenses\W\	WSUITE.LIC	to C: \Progr	am Files\Common	Files \Arches
Ready						

Figure 8: Correct License Files

If both local license files (WWSuite.Lic and Archestra.Lic) are selected for installation, they will appear in the ArchestrA License Manager Components window in the following order: ArchestrA.lic first, WWSuite.lic second.

The Results window displays the feature lines for the license component that is selected in the Components window.

Installing the ArchestrAServer.lic License File

To install ArchestrAserver.lic license file on the license server using the ArchestrA License Manager utility:

- 1. Select the Install License File option from the File menu.
- 2. Locate and select ArchestrAServer.lic license file and click Open.

Arche	strA License Ma	nager				_I_X
File Se	Choose a Licens	e File to install o	on XPMASTER			?×
Sean	Look in:	C Licenses		• •	E 💣 💷-	irense Pa
	My Recent Documents	ArchestrA.lic	rver.lic ic			
Log Componi Componi I	My Documents					- - -
Reduy	My Network Places	File name: Files of type:	ArchestrAServer.lic ArchestrA License Files	s (*Jic)		Open Cancel

Figure 9: ArchestrAServer.lic File

The **Configure Named User/Device Licenses** window appears.

Configure Named User/Device Licenses	×
The installed license file contains named user/device licenses which must be configured thr Server Options File.	rough the License
For your convenience ArchestrA License Manager has generated a template which you ca your License Server Options File and change the automatically generated names of users, ones in lowercase letters. For detailed information about License Server Options Files plea "The Options File" of the Macrovision FLEXnet Licensing End User Guide.	n copy and paste into /devices to the real ase refer to Chapter
You may need to restart the license server to make the Options File changes effective imr	nediately
# License feature ActiveFactory_RWS_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE ActiveFactory_RWS_svrDev HOST host001	Copy to Clipboard
# License feature SVoyager_Portal_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE SVoyager_Portal_svrDev HOST host001	Options File Help
# License feature ActiveFactory_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE ActiveFactory_svrDev HOST host001	
# License feature MEAClient_Sessions_svrDev can include up to 1000 hosts # Please change every generic host name to the real one in lowercase letters	1
	Close

Figure 10: Configure Named User/Device Licenses Window

3. Click the **Copy to Clipboard** button and then the **Edit Options File** button. This opens the license server options file in Notepad. The file is called **Wonderware.opt** (Figure 11 below).

🔂 Wonderware.opt - Notepad	
Eile Edit Format View Help	
### ArchestrA License Server Options File ### ### For information on how to use License Server Options files ### please refer to Macrovision FLE×net Licensing End User Guide ### available at Start Menu => Programs => Wonderware => ArchestrA Lic ###	ense Server
x	• •

Figure 11: Wonderware.opt File

4. To insert the previously-copied text into the Wonderware.opt file, select Edit/Paste or press the CTRL+V keys.

≯	onderware.c	opt - No	tepad	
Elle	Edit Format	⊻iew	Help	
###	Undo	Ctrl+Z	e Server Options File	
###	Guț Gopy	Ctrl+X Ctrl+C	on how to use License Server Options files Macrovision FLEXnet Licensing End User Guide	
###	Paste	Ctrl+V	I'T Menu => Programs => wonderware => Archestra License	Serv
	Delete	Del		
	Eind Find <u>N</u> ext <u>R</u> eplace <u>G</u> o To	Ctrl+F F3 Ctrl+H Ctrl+G		
•	Select <u>A</u> ll Time/ <u>D</u> ate	Ctrl+A F5		۲ //

Figure 12: Copy/Paste Operation

The **Wonderware.opt** file now appears like Figure 12 (below).

🛃 Wonderware.opt - Notepad	
File Edit Format View Help	
<pre># License feature ActiveFactory_RWS_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE ActiveFactory_RWS_svrDev HOST host001</pre>	1
<pre># License feature Svoyager_Portal_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE Svoyager_Portal_svrDev HOST host001</pre>	
<pre># License feature ActiveFactory_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE ActiveFactory_svrDev HOST host001</pre>	
<pre># License feature MEAClient_Sessions_svrDev can include up to 1000 hosts # please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE MEAClient_Sessions_svrDev HOST host001 INCLUDE MEAClient_Sessions_svrDev HOST host002 INCLUDE MEAClient_Sessions_svrDev HOST host003 INCLUDE MEAClient_Sessions_svrDev HOST host004 INCLUDE MEAClient_Sessions_svrDev HOST host005 INCLUDE MEAClient_Sessions_svrDev HOST host006 INCLUDE MEAClient_Sessions_svrDev HOST host006 INCLUDE MEAClient_Sessions_svrDev HOST host007 INCLUDE MEAClient_Sessions_svrDev HOST host0008 INCLUDE MEAClient_Sessions_svrDev HOST host010 INCLUDE MEAClient_Sessions_svrDev HOST host010 INCLUDE MEAClient_Sessions_svrDev HOST host011 INCLUDE MEAClient_Sessions_svrDev HOST host012 INCLUDE MEAClient_Sessions_svrDev HOST host013 INCLUDE MEAClient_Sessions_svrDev HOST host013 INCLUDE MEAClient_Sessions_svrDev HOST host014 INCLUDE MEAClient_Sessions_svrDev HOST host015 INCLUDE MEAClient_Sessions_svrDev HOST host016 INCLUDE MEAClient_Sessions_svrDev HOST host017 INCLUDE MEAClient_Sessions_svrDev HOST host018 INCLUDE MEAClient_Sessions_svrDev HOST host018 INCLUDE MEAClient_Sessions_svrDev HOST host019 INCLUDE MEAClient_Sessions_svrDev HOST host020 INCLUDE MEAClient_Sessions_svrDev HOST host021 INCLUDE MEAClient_Sessions_svrDev HOST host021 INCLUDE MEAClient_Sessions_svrDev HOST host021 INCLUDE MEAClient_Sessions_svrDev HOST host021 INCLUDE MEAClient_Sessions_svrDev HOST host021</pre>	
	*

Figure 13: New Include Line Contents

The lines that begin with the INCLUDE keyword include HOST or USER, depending on the license type. The license types are per named device or per named user. The words are placed after the license feature name.

- Per named device license type: The name of the computer appears after the keyword HOST
- Per named user license type: The name of the user account appears after the keyword USER.

The following example shows a fragment of configuration file for the **per named device** license type. The product is Active Factory 9.2 on the computer named AFRWServer.

License feature ActiveFactory_RWS_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE ActiveFactory_RWS_svrDev HOST AFRWServer

For Wonderware Information Server 3.0, the lines that begin with **INCLUDE** keyword contain **SVoyager_...** The following example shows a fragment of configuration file for per named device license type for Wonderware Information Server 3.0 on the computer named InfoServer:

License feature SVoyager_Portal_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE SVoyager_Portal_svrDev HOST InfoServer

- 5. After inserting all licensing information into the **Wonderware.opt** file, save the file and close Notepad.
- 6. Press Close on the Configure Named User/Device Licenses window.

Configure Named User/Device Licenses	×
The installed license file contains named user/device licenses which must be configured thro Server Options File. For your convenience ArchestrA License Manager has generated a template which you can your License Server Options File and change the automatically generated names of users/d ones in lowercase letters. For detailed information about License Server Options Files pleas "The Options File" of the Macrovision FLEXnet Licensing End User Guide. You may need to restart the license server to make the Options File changes effective imme	ough the License copy and paste into devices to the real se refer to Chapter ediately
 # License feature ActiveFactory_RWS_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE ActiveFactory_RWS_svrDev HOST host001 # License feature SVoyager_Portal_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE SVoyager_Portal_svrDev HOST host001 # License feature ActiveFactory_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE SVoyager_Portal_svrDev HOST host001 # License feature ActiveFactory_svrDev can include up to 1 hosts # Please change every generic host name to the real one in lowercase letters # and copy/paste the modified template to your License Server Options File INCLUDE ActiveFactory_svrDev HOST host001 # License feature MEAClient Sessions_svrDev can include up to 1000 hosts 	Copy to Clipboard Edit Options File Options File Help
# Please change every generic host name to the real one in lowercase letters	Close

Figure 14: INCLUDE Lines Visible In Configure Named User...Window

7. Click Yes when prompted to start the License Server on the target computer (Figure 15 below).

🙀 ArchestrA License I [.]	lanager					-OX
File Search Component	s Options	Help				
		8				
Searched Machines	Count	Component Name	Type	Domain	Computer	License Pa
MGDUBIEL	1	aaFS A2 Internal Use 30-Day Demo	Server	MGD	XPMASTER	C:\Program
	Archest	A License Manager			×	
	?	ArchestrA License Server is installed o Would you like to start the license server Yes No	n XPMASTER ver on that c	, but stopp omputer?	ed.	
Log Copying C:\Documents an File has been successfully	d Settings V	Administrator \My Documents \Licenses \Ard	chestrAServe	er.lic to C:V	Program Files\Con	nmon File
Ready						

Figure 15: Start the License Server Prompt

The Add License Server to License Search Path dialog appears (Figure 16 below).

Add License Server to License Search Path								
	Please specify the name of the	computer running the ArchestrA License Server						
	License Server Computer:	XPMASTER Test						
		Use Specific Server Port:						
		Test Server on Close						
		OK Cancel						

Figure 16: Add the License Server to the Search Path

7. Click **OK** to test the license server path. The **Testing Connection...** dialog appears.

Testing Connection To License Server	×
@XPMASTER serves the following license features:	
INCREMENT ActiveFactory_RWS_svrDev Wonderware 9.2 29-apr-2007 1 \ TS_OK HOST_BASED DUP_GROUP =H ISSUER = "Invensys Systems, Inc." \ NOTICE = "Wonderware Demo License File 26561 RANCHO PKWY SOUTH LAKE FOREST California 92630 L SN=888479 SIGN="0057 5E57 8926 DCEE" INCREMENT SVoyager_Portal_svrDev Wonderware 3.0 29-apr-2007 1 TS_OK \ HOST_BASED DUP_GROUP =H ISSUER = "Invensys Systems, Inc." NOTICE = "Wonderware Demo License File SN=888479 SIGN="00D1 1A83 26FC 5F9F" INCREMENT ActiveFactory_svrDev Wonderware 9.2 29-apr-2007 1 TS_OK \ HOST_BASED DUP_GROUP =H ISSUER = "Invensys Systems, Inc." NOTICE = "Wonderware Demo License File SN=888479 SIGN="00B9 B569 F939 A5EB"	
ОК	

Figure 17: License Server Connection Test

8. Click OK to close the Testing Connection to License Server dialog.

When you have successfully completed the installation procedure, the ArchestrA License Manager creates the **License Server** folder, which shows the license server component with license features information (Figure 18 below).

ArchestrA License Manager						_1	
File Search Components Options	Help						
	8						
Searched Machines	Count	Component Name		Туре	Domain	Computer	
E S MGDUBIEL	1	[License Server XPMASTER]		Server	MGD	XPMASTER	
XPMASTER License Files Server License Servers	•				VOLUCION		E
@XPMASTER	INCREM TS_OF NOTIC SN=8 INCREM HOST	ENT ActiveFactory_RWS_svrD K HOST_BASED DUP_GROUP= CE="Wonderware Demo Licens 88479 SIGN="0057 5E57 8926 ENT SVoyager_Portal_svrDev 1 BASED DUP_GROUP=H ISSUE	ev Wonderw H ISSUER = "1 e File 26561 DCEE" Wonderware R = "Invensy	are 9.2 29 Invensys S RANCHO 3.0 29-ap is Systems	r-2007 1 TS . Inc." NOT	1 \ :." \ TH LAKE FOR 5_OK \ ICE="Wonder	
Log							
ArchestrA License Server is running License server '@XPMASTER' has been XPMASTER has client license search pat	added to th th 'C:\Progra	e license search path on XPMA am Files\Common Files\Archest	STER rA\License\/	ArchestrA.li	c;@XPMAS	TER'	-
Ready						NUM	1.

Figure 18: License Server Display

Editing the Wonderware.opt Configuration File

1. Right-click the Server icon under the License Files root and select Edit Server Options File.

ArchestrA License	Manager							×
File Search Compone	nts Options	Help						
🖗 🐹 🗶 😐		8						
Searched Machines		Count	Component N	ame	Type	Domain	Computer	
MGDUBIEL		1	aaFS A2 Inter	mal Use 30-Day Demo	Server	MGD	XPMASTER	
⊡ I Ser ⊡-⊡ License ⊡ @X	Start License Server Stop License Server Test License Server Manage License Server Re-Read License File		_					<u> </u>
	Edit Server C	Options File.						
Log	Delete	Delete						
ArchestrA License Serv License server '@XPMA_ XPMASTER has client lice	Properties	h 'C: \Progra	re search m Files\Commor	path on XPMASTER h Files \ArchestrA \License	\ArchestrA.l	c;@XPMAS	TER'	-
Ready						Г	NUM	- //

Figure 19: Edit Server Options File

2. Edit the file and save all changes.

Changing the **Wonderware.opt** file requires re-reading the file.

3. Right-click the Server icon under the License Files root and select **Re-Read License File**.

ArchestrA License N	lanager							×
File Search Componen	ts Options	Help						
		8						
Searched Machines		Count	Co	mponent Name	Type	Domain	Computer	
GDUBIEL GOUBIEL GOUBIEL GOUBIEL COUBIEL C		1 aaFS A2 Internal Use 30-Day Demo Server MGD XPMAS						ER
E- 🛄 Serv License S	Start License Server Stop License Server Test License Server Manage License Server Re-Read License File Edit Server Options File		¥.					
			2					
Log	Delete							-
ArchestrA License Serve License server '@XPMAS Properties		search path on XPMASTER						
XPMASTER has client licen	se search path	C: Progra	am File	es\Common Files\ArchestrA\License	\ArchestrA.l	c;@XPMAS	TER'	•
Ready						Г	NUM	- //.

Figure 20: Re-Read License File

- 4. To apply all changes to the configuration file, right-click the Server icon under the License Files root, and select the following from the menu:
 - . Stop License Server
 - Start License Server

ArchestrA License	Manager						
File Search Componen	its Options Help						
🗿 🕷 🗶 🔳							
Searched Machines	Count		Component Name	Type	Domain	Computer	
GOUBIEL GOUBIEL GOUBIEL GOUBIEL GOUBIEL COUBIEL C	es 1		aaFS A2 Internal Use 30-Day Demo	Server	MGD	XPMASTER	
Serv-	Start License Server						F
License :	Stop License Server						
	Test License Server						
	Manage License Serv Re-Read License File. Edit Server Options F	er 					
Log	Delete						-
ArchestrA License Serve License server '@XPMAs Properties			e search path on XPMASTER	an ann an			
XPMASTER has client licer	ise search path 'C: \Prog	gran	Files\Common Files\ArchestrA\License	ArchestrA.	ic;@XPMAS	TER'	-
Ready					Γ	NUM	- //.

Figure 21: Stop/Start License Server

- 5. Restart the affected Wonderware products to apply the modifications.
- A. Przysucha and G. Dubiel

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