### VLF Deployment Check Lists

### What type of Visual LANSA Framework Application have you created?

Windows Rich Client		Web Browser			
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Stand Alone	Clie	nt/Server			
<u>Check</u> List/Planning <u>Sheet =&gt;</u> <u>WIN1</u>	ê		ê	ê	ê
	Deploying the Client Part	Deploying th	e Server Part	IBM i server	Windo web ser
	Check	ê	ê	List/Planning Sheet =>	<u>Chec</u> List/Plan
	List/Planning Sheet => WIN2	IBM i server <u>Check</u>	Windows server	<u>WEB1</u>	<u>Sheet =</u> <u>WEB2</u>
	VVIIVZ	List/Planning Sheet => <u>WIN3</u>	<u>Check</u> List/Planning <u>Sheet =&gt;</u>		or <u>Chec</u> List/Plan
			<u>WIN4</u>		<u>Sheet =</u> <u>WEB2</u>
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	RAMP-NL addendum	RAMP-TS addendum		RAMP addendum	
	<u>Check</u> List/Planning Sheet => WIN-RAMP-	Check List/Planning Sheet => WIN-RAMP-		<u>Check</u> List/Planning <u>Sheet =&gt;</u> <u>WIN-RAMP-</u>	â
	NL	<u>TS</u>		TS	e
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The information in this guide is intended as a foundation on which users can build their site-specific deployment procedures.

Disclaimer: While every effort has been made to ensure that the information in this material is accurate, in no event shall LANSA be liable for any damages arising from its use. LANSA MAKES NO WARRANTIES, EXPRESSED OR IMPLIED.

Edition Number EPC130100 Edition Date September 13, 2012 © 2012 LANSA VLF Deployment Check Lists

### Check List/Planning Sheet => WEB1

 Overview
 WEB1, Step 1. Pre-Requisite Actions and Other Considerations
 WEB1, Step 2. Package the Deployment Material on the Source System
 WEB1, Step 3. Move the Deployment Material to the Target System
 WEB1, Step 4. Install the Deployment Material on the Target System
 WEB1, Step 5. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WEB1

#### **Overview**

This check list shows the steps required to deploy a Framework web application on a Series i server.

### WEB1, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	F	low to Do It	ü
Licensing requirements for the target system	LANSA for the Web license.	lf you nee http://ww	ed more information, see w.lansa.com/support/licen	sing/index
A Framework application ready for deployment	You need to have an e version of your Frame application ready for deployment	executable work	For more information see a Framework Version in t Framework Guide.	: Deployin he
Establish the minimum supported configuration (MSC)	<ul> <li>You need to formally of minimum configuration solution will viably supported including:</li> <li>Minimum hardware requirements</li> <li>Minimum software requirements</li> <li>Supported screen resolutions</li> <li>Minimum network capabilities</li> <li>Maximum data volume</li> </ul>	lefine the n your oport, re e king olumes.	<ul> <li>A formal MSC will:</li> <li>Inform decisions abo overall solution cost</li> <li>Establish the enviror required to test the d the solution or any pa made to it.</li> <li>Raise management's of the risk in implement MSC" solution.</li> <li>For more information reference Application Performance</li> <li>Framework Guide.</li> </ul>	out the ament eployment atch/hotfix s awarenes enting a "s er to in the

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#### WEB1, Step 2. Package the Deployment Material on the Source System

When you have completed these steps, you will have a single composite save file named Bnn\_ALL that contains everything from your IBM i that is to be deployed.

Step	Activity	How to Do It
Assign a build number	Assign a build number nn to the version of your product being released. This number will be used in the following steps for a file naming convention.	

Optionally	If you want to compile the	See Create VLF.NET Objects to b
include	Framework as a .NET	Included in the Deployment Pacl
VLF.NET	executable, you need to save it	
objects	with the VLF.NET feature	
	selected.	

Include LANSA server objects (typically on the IFS)	Create a save file for holding server objects. Include the following standard LANSA Server objects:	Create an IBM i save file called, fo example, Bnn_IFS (where nn is yo version number) using the CRTSA' command.
	<ul> <li>Images</li> <li>Javascripts</li> <li>HTML files</li> <li>XML Files</li> <li>CSS Files</li> </ul>	Save from the IBM i IFS all objects the listed types into this save file using the SAV command. This will include LANSA and non-LANSA objects. In a typical installation yc would include all the files in the images folder.
		See Notes on the SAV and RST commands.
		Make sure these files are included
		VLF_FLA_ <function>.js</function>
		VF_*.*
		FP_*.*
		UF*.*
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		Also include your own server objects.
		If you are using RAMP, include the objects in the package. See Prepare your RAMP-TS Screen Definitions For Deployment or Add RAMP-NL Objects to the Deployment Package.
		If you are deploying VLF.NET applications, see Add VLF.NET Objects to the Deployment Package.

Include your own non- LANSA objects	If your application contains non- LANSA objects, create save files containing them. Non-LANSA objects are:	Create as many IBM i save files named Bnn_OM1, Bnn_OM2, etc as required to contain other non-LANSA IBM i objects.
	<ul> <li>RPG Programs</li> <li>DDS Files</li> <li>Cobol Programs</li> <li>DB2 files</li> <li>Data Areas</li> <li>Data Queues</li> </ul>	Save all non-LANSA objects into the Bnn_OM1, 2, 3 n save files files using the SAVOBJ command.

Create an IBM i Export List	Create a LANSA export list named Bnn_ALL.	Use the option Work with lists of objects to be exported of the LANSA Housekeeping menu to create the export list.
Include your own LANSA objects in the export list	Include your own LANSA objects such as filters, command handlers etc.	Use the options in the Work with Export List menu to make sure all the objects used in your application are included in the export list.
Include save files in the export list	Include the save files you have created in the export list	Use option Add other/non-LANSA objects to the list. Use F20 to find the files.

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VLF Deployment Check Lists > Check List/Planning Sheet => WEB1 > WEB1, Step 2. Package the Deployment Material on the Source System

#### Notes on the SAV and RST commands

You will need to use the SAV and RST commands to save and restore all your objects to and from the save file (the SAVOBJ and RSTOBJ commands cannot be used for IFS objects because these commands are used to save IBM i objects that reside in libraries.)

In the following example:

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- SAV will save a large number of the required files from the images folder and a private folder called VLF\_Private\_Development.
- The save also includes all the RAMP-NL deployment cab files contained in a directory called RAMP\_NewLook.
- The target save file is called IFSSave.

You can use this example as a starting point for building your own SAV commands, but you need to ensure that the command contains the path and name of the save file you have created, all the files required for your site, and that the path names are correct.

If you wish to enter this command freehand from the command line, use CALL QCMD. Pressing F11 from within QCMD will provide you with space to enter the SAV command with many objects.

SAV DEV('/QSYS.lib/QGPL.lib/B01\_IFS.file') OBJ(('/LANSA\_vlfpgmlib/webserver/images/VLF\_FLA\_\*.js') ('/LANSA\_vlfpgmlib/webserver/images/VF\_\*.\*')

('/LANSA\_vlfpgmlib/webserver/images/VLF\_Private\_Development/VF\_\*.\*

('/LANSA\_vlfpgmlib/webserver/images/VLF\_Private\_Development/FP\_\*.\*

(1/I ANSA vilfamilib/wohenway/images/V/I E Driverte Development/LIE \*\*

('/LANSA\_vlfpgmlib/webserver/images/VLF\_Private\_Development/UF\_\*,\*')

('/LANSA\_vlfpgmlib/webserver/images/VLF\_Private\_Development/RAMP\_NewLook/\*')

If there is not enough space to specify all the objects you require, you can create more than one save file. For example you could create one save file for objects in the Images folder and another one for objects in the private working folder.

Check the save file using the DSPSAVF command (press Enter to display the objects in the subsequent directories until you've reached the end of the file).

To restore the saved objects to another IFS directory from the save file (IFSSave), you need to issue three RST commands - one for each save directory. Please note that the target directories must already exist on the IFS when running the RST.

The following RST will restore the objects in the saved images directory to a directory of the same name on the target system.

RST DEV('/qsys.lib/vlfpgmlib.lib/B01\_IFS.file') OBJ(('/LANSA\_vlfpgmlib/webserver/images'))

The following RST will restore the objects in the saved private folder (VLF\_Private\_Development) to a new private folder on the target system called VLF\_Private\_Production.

RST DEV('/qsys.lib/vlfpgmlib.lib/B01\_IFS.file') OBJ(('/LANSA\_vlfpgmlib/webserver/images/VLF\_Private\_Development'

\*INCLUDE

'/LANSA\_vlfpgmlib/webserver/images/VLF\_Private\_Production'))

The following RST will restore the objects in the saved RAMP\_Newlook folder to a new folder on the target system.

RST DEV('/qsys.lib/vlfpgmlib.lib/B01\_IFS.file')

OBJ(('/LANSA\_vlfpgmlib/webserver/images/VLF\_Private\_Development/RAMP\_NewLoo

VLF Deployment Check Lists > Check List/Planning Sheet => WEB1

#### WEB1, Step 3. Move the Deployment Material to the Target System

There are many ways to physically deploy the Bnn\_ALL save file:

- Tape for IBM i
- CD for an IBM i
- CD for a PC
- E-mail
- Web site download

Moving an IBM i file to a PC or from a PC

### VLF Deployment Check Lists > Check List/Planning Sheet => WEB1 > WEB1, Step 3. Move the Deployment Material to the Target System

# Moving an IBM i file to a PC or from a PC

The commands XFLRTOSAVF and XSAVFTOFLR are useful when you want to move an IBM i save file to a PC (or vice versa). For example, the deploy cycle might be:

Step	Activity	How to Do It
Transform the deployment save file to a PC file on the IFS	Use XSAVFTOFLR command to create Bnn_ALL.SAV in any directory on the IFS (e.g. /temp) from the Bnn_ALL save file.	XSAVFTOFLR PATH('/temp/Bnn_ALL.SAV FILE(MYLIB/Bnn_ALL)
Copy the file to a PC folder and zip it	Copy Bnn_ALL.SAV to a PC folder and then zip up to produce Bnn_ALL.ZIP.	
Move to target system	Move Bnn_ALL.ZIP like any file – copy, e-mail, web site download, CD, etc.	
Unzip	At the target unzip Bnn_ALL.ZIP to produce Bnn_ALL.SAV	
Copy to IFS	Copy Bnn_ALL.SAV to any directory on the IFS (e.g. /temp).	
Transform to save file	Use XFLRTOSAVF to transfer Bnn_ALL.SAV into IBM i save file named Bnn_ALL	XFLRTOSAVF PATH('/temp/Bnn_ALL.SAV') FILE(MYLIB/Bnn_ALL)
	The file is now ready to be imported.	

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#### WEB1, Step 4. Install the Deployment Material on the Target System

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Step	Activity	How to Do It
Install LANSA for the iSeries on the target IBM i server	From the LANSA CD install LANSA for the iSeries. Note that the LANSA system has to be on the same version and EPC level as the system on which the deployment material was created. Also install LANSA for the Web.	Follow the instructions in <u>Installin</u> LANSA on IBM i Guide.

If deploying a VLF.NET Application,	See Install Microsoft's .NET Framework on end-user PCs.	
install		
Microsoft's .NET		
Framework on		
end-user PCS		

Verify that L4Web is installed and operational on the target system	Make sure the partition is web enabled. Execute a LANSA for the Web process or function.	

Make sure that your HTTP server is configured to support server side includes	For example, if your HTTP Server configuration is called DEVINST you can execute this command in an IBM i command line: WRKHTTPCFG DEVINST Browse through the configuration details and make sure that it includes an entry like this one:		
	Imbeds On html		•
		•	

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<u>  </u>	If it doesn't and you are not confident of adding it yourself, contact your IBM i administrator to add such an entry. When your HTTP server configuration has been changed, you generally need to stop and restart it before the changes take effect.	, Þ	

Ensure that Extended Exchange is enabled	The Enable Extended Exchange option needs to be selected.	Using the LANSA for the Web Administrator, connect to your server system.
		From the Tools menu, choose Configure System. Select Miscellaneous tab and verify that Enable Extended Exchange is enabled (that is, the checkbox is checked).

lf using VLF.NET, ensure IBM i	Some minor configuration changes may need to be made to	Use the Apache interface (*ADM click on Conten	administration browser IIN instance in port 2001) and t Settings link.
Apache server configuration is correct	the MIME types control table on IBM i Apache servers so that the files	In the MIME tab add the followir	, click on the ADD button to ng Content-type entries:
	are served correctly.	File Extension	- Value
		application -	application/x-ms-application
		manifest -	application/x-ms-manifest
		deploy -	application/octet-stream
		Or if editing the editor, in the re AddType application AddType application	e configuration file with a text levant section add these lines m/x-ms-application application m/x-ms-manifest manifest
		Add Type applicatio	on/octet-stream deploy

Create a private working folder for the Framework	You need to create a Private Working Folder to upload the files required to run the Visual LANSA Framework in the browser.	•
	Create this directory as a subdirectory of the LANSA for the	

## WEB1, Step 5. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Security considerations	Consider making some in files read-only for web broaccess.	nportant owser
	Typically this is done by t site administrator at the level.	ne web older
	For example, and as a mi XML system definition file Javascript files should alw set up individually or on a basis as read-only to prev unauthorized modification their content.	nimum, es and vays be a folder vent n of
Backup and Recovery strategy	You should have a regular backup and recovery stra- place for your target syste	egy in em.
Maintenance strategy	You should devise a strate deploying modifications y make to your VLF applica	egy for ou tions

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VLF Deployment Check Lists

### Check List/Planning Sheet => WEB2A

Overview
WEB2A, Step 1. Pre-Requisite Actions and Other Considerations
WEB2A, Step 2. Package the Deployment Material on the Source System
WEB2A, Step 3. Move the Deployment Material to the Target System
WEB2A, Step 4. Install the Deployment Material on the Target System
WEB2A, Step 5. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WEB2A

#### **Overview**

This check list shows the steps required to deploy a Framework web application to a Windows web server with the target LANSA system on a Windows machine.

## WEB2A, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It ü
Licensing requirements for the target system	LANSA for the Web license. The license needs to be on the Windows application server.	If you need more information, see http://www.lansa.com/support/licensing/ind
	No licences are required on the Windows web server machine.	

parser installed.
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A Framework	You need to have an executable	For more information see: Deploy
application	version of your Framework	a Framework Version in the
ready for deployment	application ready for deployment	Framework Guide.

<ul> <li>Establish the minimum supported configuration (MSC)</li> <li>You need to formally define the minimum configuration your solution will viably support, including:</li> <li>Minimum hardware requirements</li> <li>Minimum software requirements</li> <li>Supported screen resolutions</li> <li>Minimum networking capabilities</li> <li>Maximum data volumes.</li> </ul>	<ul> <li>A formal MSC will:</li> <li>Inform decisions about the overall solution cost</li> <li>Establish the environment required to test the deployme the solution or any patch/hotf made to it.</li> <li>Raise management's awarer of the risk in implementing a MSC" solution.</li> <li>For more information refer to Application Performance in the Framework Guide.</li> </ul>
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#### WEB2A, Step 2. Package the Deployment Material on the Source System

Step	Activity	How to Do It
Assign a build number	Assign a build number nn version of your product be released. This number will used in the following steps file naming convention.	to the ing be for a
Optionally include VLF.NET objects	If you want to compile the Framework as a .NET executable, you need to sa with the VLF.NET feature selected.	See Create VLF.NET Objects to b Included in the Deployment Pacl
Zip up server objects	Create a zip file and includ standard server objects an your own server objects: Images Javascripts HTML files	e all Create a .zip file called, for examp d Bnn_Webserver.zip (where nn is y version number), and include files from the LANSA for the L4web Im Folder and your Private Working F (which normally resides under you images folder).
	<ul><li>XML Files</li><li>CSS Files</li></ul>	Make sure these files are included
	• Dlls	VLF_FLA_ <function>.js</function>
		۷۲_`` FP **
		UF*.*
		Also include your own server obje
		If you are deploying VLF.NET applications, see Add VLF.NET Obj to the Deployment Package.
		In a typical installation you would include all the files under the ima- folder (including the private worki folder), so you may simply decide zip up the entire contents of the

<u> </u>			zip up the entire contents of the
			However, it is important that the objects end up in the right directories on the target machine, so if you are not using the same directory names, you may want to create two zip files - one containing the objects in the images folder (excluding the private working folder images) and another zip file containing the files in your private working folder.
	Start the Deployment Tool	Logon to Visual LANSA and start the Deployment Tool.	Start Visual LANSA and logon to the partition containing the application to be deployed.
			Ensure that you use a user profile which is authorized to the objects that are being deployed.
			From the Tools ribbon, select the Deploy button. The Visual LANSA Deployment Tool's main window will open.
	Create a Deployment Tool application and package	Create an application and a package using the Deployment Tool.	Click on the New Application button on the tool bar or select the New command from the Application menu.
		Do not use any template.	Fill in the application details.
			Click OK. You are prompted to create a Package. Fill in the package details and click OK.
			The Package Control Panel is displayed

Set the Deployment option	Set the deployment option of the package to Self-Extracting Zip.	Display the Deployment Option window by clicking on the Deployment button.
	If you select another deployment option, this check list may not work.	

Specify packageBecause the package will be deployed to a system which already has Visual LANSAClic on settingssettingsalready has Visual LANSASet installed on it, you may choose	lick on the Package Settings button n the toolbar to display the Package ettings window.
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#### WEB2A, Step 3. Move the Deployment Material to the Target System

Move the deployment material to the target system	Copy the msi file (packagename_v1.0.0_en- us.msi) in the package folder (\X_WIN95\X_LANSA\x_apps\packagename\) to the required destination media such as CD, network server etc.	
	(Note: Do not copy the entire package directory.)	

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Moving an IBM i file to a PC or from a PC

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VLF Deployment Check Lists > Check List/Planning Sheet => WEB2A > WEB2A, Step 3. Move the Deployment Material to the Target System

# Moving an IBM i file to a PC or from a PC

The commands XFLRTOSAVF and XSAVFTOFLR are useful when you want to move an IBM i save file to a PC (or vice versa). For example, the deploy cycle might be:

Step	Activity	How to Do It
Transform the deployment save file to a PC file on the IFS	Use XSAVFTOFLR command to create Bnn_ALL.SAV in any directory on the IFS (e.g. /temp) from the Bnn_ALL save file.	XSAVFTOFLR PATH('/temp/Bnn_ALL.SAV FILE(MYLIB/Bnn_ALL)
Copy the file to a PC folder and zip it	Copy Bnn_ALL.SAV to a PC folder and then zip up to produce Bnn_ALL.ZIP.	
Move to target system	Move Bnn_ALL.ZIP like any file - copy, e-mail, web site download, CD, etc.	
Unzip	At the target unzip Bnn_ALL.ZIP to produce Bnn_ALL.SAV	
Copy to IFS	Copy Bnn_ALL.SAV to any directory on the IFS (e.g. /temp).	
Transform to save file	Use XFLRTOSAVF to transfer Bnn_ALL.SAV into IBM i save file named Bnn_ALL	XFLRTOSAVF PATH('/temp/Bnn_ALL.SAV') FILE(MYLIB/Bnn_ALL)
	The file is now ready to be imported.	

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#### WEB2A, Step 4. Install the Deployment Material on the Target System

Note that in most production configurations the Windows web server and the Windows application server are two separate machines.

Step	Activity	low to Do It
Install Visual LANSA from CD	<ul> <li>On the target application sinstall Visual LANSA either Independent Workstation of Independent Server.</li> <li>During the installation, in the Partition Initialization dialocity select:</li> <li>Visual LANSA Framewore</li> <li>Enable for the Web</li> <li>You might want to also select the demonstration select the demonstration system in order to test LANSA installation.</li> <li>NOTE: if your application up WAMs, you must first instal Visual LANSA, configure the partition to be RDMLX ena and only then import Visual LANSA Framework using the Partition Initialize option for Development Environment screen.</li> </ul>	rver Accept default settings. s an If you need more information, see Installing LANSA on Windows Gui and Visual LANSA Framework G There is no need to configure the Visual LANSA Framework - simply import the Framework objects int your Visual LANSA system. bour es ed n the ogon

If deploying a VLF.NET Application, install	See Install Microsoft's .NET Framework on end-user PCs.	
Microsoft's .NET Framework on end-user PCs		

<u>[4]</u>		•
Install LANSA for the Web on the Windows server from CD	<ul> <li>On the target Windows server install:</li> <li>LANSA for the Web Server</li> <li>LANSA for the Web Administrator</li> </ul>	Install it to the same directory as Visual LANSA. If you have multiple LANSA systems, use the same LANSA configuration as for the LANSA for the Web system. Accept default installation settings. If you need more information, see Installing LANSA on Windows Guide

Ensure you	Ensure the target	If you need more information, see
have a web license	application server has a Web license.	http://www.lansa.com/support/licensing/index.htm

Configure LANSA for the	1. Ensure IIS is running by entering this URL into the browser running on the Web Server:	If you need more information, see Microsoft IIS and the IIS Plug-in.
Web		Use the iisreset command from a command window if you have
	http://localhost	problems.
	2. Make sure Microsoft Windows Script Host (WSH) is installed by locating the file wscript.exe.	
	3. Configure LANSA Listener on Windows Data/Application Server	Follow the steps in Configure LANSA Listener on Windows Data/Application Server.
	4. Create User on Windows Data/Application Server	Follow the steps in Create User on Windows Data/Application Server.
	5. Configure Data/Application Server	Follow steps 1 and 2 in Configure Data/Application Server.
	6. Verify IIS Plug-in Communications with Data/Application Server	Follow the steps in Configure IIS Plug- in Communications with Data/Application Server.
	7. Verify that the Web Server is ready to use.	

## WEB2A, Step 5. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Security considerations	Consider making some im files read-only for web bro access.	portant wser
	Typically this is done by the site administrator at the formula.	ne web older
For example, and as a XML system definition Javascript files should set up individually or o basis as read-only to p unauthorized modifica their content.		nimum, s and ays be folder ent of
Backup and Recovery strategy	You should have a regular backup and recovery strat place for your target syste	egy in m.
Maintenance strategy	You should devise a strate deploying modifications ye make to your VLF applicat	gy for ou ions

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VLF Deployment Check Lists
### Check List/Planning Sheet => WEB2B

Overview
WEB2B, Step 1. Pre-Requisite Actions and Other Considerations
WEB2B, Step 2. Package the Deployment Material on the Source System
WEB2B, Step 3. Move the Deployment Material to the Target System
WEB2B, Step 4. Install the Deployment Material on the Target System
WEB2B, Step 5. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WEB2B

#### **Overview**

This check list shows the steps required to deploy a Framework web application to a Windows web server with the target LANSA system on an IBM i machine.

# WEB2B, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It	ü
Licensing requirements for the target system	LANSA for the Web license. The license needs to be on the IBM i application server.	If you need more information, see http://www.lansa.com/support/licer	ising/index
	required on the Windows web server machine.		

A Framework	You need to have an executable	For more information see: Deployin
application	version of your Framework	a Framework Version in the
ready for	application ready for	Framework Guide.
deployment	deployment	

Establish the minimum supported configuration (MSC)	<ul> <li>You need to formally define the minimum configuration your solution will viably support, including:</li> <li>Minimum hardware requirements</li> <li>Minimum software requirements</li> <li>Supported screen requirement</li> </ul>	<ul> <li>A formal MSC will:</li> <li>Inform decisions about the overall solution cost</li> <li>Establish the environment required to test the deployment the solution or any patch/hotfix made to it.</li> <li>Raise management's awarenes of the risk in implementing a "summer the solution or any solution or any solution of the risk in the solution of a solution of a solution of the risk in the solution of a s</li></ul>
	<ul> <li>Supported screen resolutions</li> <li>Minimum networking capabilities</li> <li>Maximum data volumes.</li> </ul>	<ul> <li>Raise management's awarenes of the risk in implementing a "su MSC" solution.</li> <li>For more information refer to Application Performance in the Framework Guide.</li> </ul>

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#### WEB2B, Step 2. Package the Deployment Material on the Source System

# Perform these steps on the development IBM i application server:

Step	Activity	How to	Do It
Assign a build number	Assign a build number nn version of your product be released. This number will used in the following steps file naming convention.	to the ing be for a	
Optionally include VLF.NET objects	If you want to compile the Framework as a .NET executable, you need to sa with the VLF.NET feature selected.	ave it	See Create VLF.NET Objects to b Included in the Deployment Pac
Include your own non- LANSA objects	If your application contains LANSA objects, create save containing them. Non-LAN objects are:	s non- e files SA	Create as many IBM i save files named Bnn_OM1, Bnn_OM2, etc required to contain other non-LA IBM i objects.
	<ul> <li>RPG Programs</li> <li>DDS Files</li> <li>Cobol Programs</li> <li>DB2 files</li> <li>Data Areas</li> <li>Data Queues</li> </ul>		Save all non-LANSA objects into Bnn_OM1, 2, 3 n save files file using the SAVOBJ command.
Create an IBM i Export List	Create a LANSA export list named Bnn_ALL.		Use the option Work with lists of objects to be exported of the LA Housekeeping menu to create th export list.

<u> </u>	Include your own LANSA objects in the export list	Include your own LANSA objects such as filters, command handlers etc.	Use the options in the Work with Export List menu to make sure all the objects used in your application are included in the export list.
	Include save files in the export list	Include the save files you have created in the export list	Use option Add other/non-LANSA objects to the list. Use F20 to find the files.

Include all the standard Framework objects in the export list	Use F8 to make generic selections when adding objects to the export list.	
	Fields:	FP_E*
		FP_R*
		UB*
		UF_*
		VF_*
	Files (Include data in the files)	FPTAB
		VFPPF06
		VFPPF07
	Processes/functions:	UF_*
		VF*
	Other/non-LANSA: (Type *SRVPGM)	U_BIF985
	Web HTML components:	FP_R*
		UB_*
		VF_*
	Weblets:	FP*
		UB*
		VLF_LAYOUT
	Visual LANSA components:	FP_*
		VF_AW*
		VF_LW*
		VF_SW*
	Review the export list and make	Specify Y in the Comp Form column

VLF Deployment Check Lists > Check List/Planning Sheet => WEB2B

#### WEB2B, Step 3. Move the Deployment Material to the Target System

There are many ways to physically deploy the Bnn\_ALL save file:

- Tape for IBM i
- CD for an IBM i
- CD for a PC
- E-mail
- Web site download

Moving an IBM i file to a PC or from a PC

VLF Deployment Check Lists > Check List/Planning Sheet => WEB2B > WEB2B, Step 3. Move the Deployment Material to the Target System

# Moving an IBM i file to a PC or from a PC

The commands XFLRTOSAVF and XSAVFTOFLR are useful when you want to move an IBM i save file to a PC (or vice versa). For example, the deploy cycle might be:

Step	Activity	How to Do It
Transform the deployment save file to a PC file on the IFS	Use XSAVFTOFLR command to create Bnn_ALL.SAV in any directory on the IFS (e.g. /temp) from the Bnn_ALL save file.	XSAVFTOFLR PATH('/temp/Bnn_ALL.SAV FILE(MYLIB/Bnn_ALL)
Copy the file to a PC folder and zip it	Copy Bnn_ALL.SAV to a PC folder and then zip up to produce Bnn_ALL.ZIP.	
Move to target system	Move Bnn_ALL.ZIP like any file – copy, e-mail, web site download, CD, etc.	
Unzip	At the target unzip Bnn_ALL.ZIP to produce Bnn_ALL.SAV	
Copy to IFS	Copy Bnn_ALL.SAV to any directory on the IFS (e.g. /temp).	
Transform to save file	Use XFLRTOSAVF to transfer Bnn_ALL.SAV into IBM i save file named Bnn_ALL	XFLRTOSAVF PATH('/temp/Bnn_ALL.SAV') FILE(MYLIB/Bnn_ALL)
	The file is now ready to be imported.	

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#### WEB2B, Step 4. Install the Deployment Material on the Target System

Step	Activity	How t	o Do It
Install LANSA for the iSeries on the target IBM i server	From the LANSA CD install LANSA for the iSeries. Note that the LANSA syste to be on the same version EPC level as the system or which the deployment ma was created. Also install LANSA for the	em has and n terial Web.	Follow the instructions in <u>Installin</u> <u>LANSA on IBM i Guide</u> . Note that because the web serve be on Windows there is no need t configure the web server on the I

If deploying a VLF.NET Application, install Microsoft's .NET Framework on end-user PCs	See Install Microsoft's .NET Framework on end-user PCs.	
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Ensure you have a web license	Ensure the target application server has a Web license.	lf you need more information, see http://www.lansa.com/support/licensing/inde

Install LANSA for the Web on the Windows server from CD	<ul> <li>On the target Windows server install:</li> <li>LANSA for the Web Server</li> <li>LANSA for the Web Administrator</li> </ul>	Accept default installation settin <u>c</u> If you need more information, sec Installing LANSA on Windows Gui
--	--	---

	Configure	Using LANSA for the Web	If you need more information, se
	LANSA for the	Administrator configure your	Installing LANSA on Windows Gui
	Web to use IBM	web server to point to the	
4			

<b>4</b> 1	Web to use IBM	web server to point to the	
•	application	LANSA system on your IBM I.	
	server.		

Verify that L4Web is installed and operational on the target	Make sure the partition is web enabled. Execute a LANSA for the Web process or function.	
system		

Make sure LANSA for the WEB is configured to	Use the LANSA for the Web Administrator to indicate that your system will use SSI.	Start the LANSA for the Web Administrator and open your local configuration. Choose the Maintain Systems option from the Tools menu.
support Server Side Include		Select the appropriate LANSA system and click on the Change button. Make sure the Server Side Include (SSI) support check box is checked.

Ensure that Extended Exchange is enabled	The Enable Extended Exchange option needs to be selected.	Using the LANSA for the Web Administrator, connect to your server system.
		From the Tools menu, choose Configure System. Select Miscellaneous tab and verify that Enable Extended Exchange is enabled (that is, the checkbox is checked).

Create a private working folder for the Framework	You need to create a Private Working Folder to upload the files required to run the Visual LANSA Framework in the browser. Create this directory as a subdirectory of the LANSA for the Web images directory on your Windows web server. For example, if your LANSA for the Web images directory was named IMAGES, you might create a directory named <c:\program Files\<lansa>\Webserver\ IMAGES\VLF_Private_Folder. The private working directory</lansa></c:\program 	<ul> <li>If you cannot view the contents of this folder you need to enable it for directory browsing within your web server.</li> <li>For IIS web servers, this may be done by:</li> <li>Opening Internet Information Services from Administrative Tools in the Control panel</li> <li>Selecting the images directory from the list of web sites</li> <li>Displaying the properties of the directory and checking the</li> </ul>

## WEB2B, Step 5. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Security considerations	Consider making some im files read-only for web bro access.	portant wser
	Typically this is done by the site administrator at the formula.	ne web older
	For example, and as a min XML system definition file Javascript files should alw set up individually or on a basis as read-only to prev unauthorized modification their content.	nimum, s and ays be folder ent of
Backup and Recovery strategy	You should have a regular backup and recovery strat place for your target syste	egy in m.
Maintenance strategy	You should devise a strate deploying modifications ye make to your VLF applicat	gy for ou ions

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VLF Deployment Check Lists

### Check List/Planning Sheet => WEB-RAMP-TS

Use this check list in conjunction with Check List/Planning Sheet => WEB1 when you are deploying a RAMP-TS application to an IBM i server.

 Overview
 WEB-RAMP-TS, Step 1. Pre-Requisite Actions and Other Considerations
 WEB-RAMP-TS, Step 2. Prepare Your RAMP-TS Screen Definitions for Deployment
 WEB-RAMP-TS, Step 3. Install your RAMP-TS Screen Definitions at the Deployment Target
 WEB-RAMP-TS, Step 4. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WEB-RAMP-TS

#### **Overview**

This check lists shows you how to include your RAMP-TS objects in a deployment package created as per the instructions in Check List/Planning Sheet => WIN3.

#### WEB-RAMP-TS, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It	ü
Licensing requirements for the target system	Axes-TS needs to be licensed on the target IBM i server.		

Establish the minimum supported configuration (MSC)	<ul> <li>You need to formally define the minimum configuration your solution will viably support, including:</li> <li>Minimum hardware requirements</li> <li>Minimum software requirements</li> <li>Supported screen resolutions</li> <li>Minimum networking capabilities</li> <li>Maximum data volumes.</li> </ul>	<ul> <li>A formal MSC will:</li> <li>Inform decisions about the overall solution cost</li> <li>Establish the environment required to test the deployment the solution or any patch/hotfix made to it.</li> <li>Raise management's awarenes of the risk in implementing a "si MSC" solution.</li> <li>For more information refer to Application Performance in the Framework Guide.</li> </ul>

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#### WEB-RAMP-TS, Step 2. Prepare Your RAMP-TS Screen Definitions for Deployment

In your development environment your RAMP-TS screen definitions are kept in the Axes Screens folder, typically named \aXes\ts\screens. If you used Private Definition Folder(s) to segment your screen definitions, these will appear as sub-folders of the Axes screens folder.

Step	Activity	How to Do It
Check definition files	Check that any example or testing static or dynamic table definitions have been removed from the respective definition files.	Open the Tables_Static.txt and Tables_Dynamic.txt files in your private you have one, or the axes\ts\screens for remove any table definitions that are n required.
	These would typically be unused in the application now - and may fail if they are deployed to a production environment.	
Add aXes files to a save file	Copy these files from your development Axes screens folder and/or any associated private definition to a save file:	First create a save file using the CRTSA command, and then use the IBM i save command to save the files to the save For example this command saves the c
	<ul> <li>application_definition.css</li> <li>(plus</li> <li>application_definition_*.css)</li> <li>application_definition.js</li> </ul>	the /axes directory to a save file: SAV DEV('/qsys.lib/savefilelib.lib/RAMPTSF.fil OBJ(('/axes'))
<ul><li>Extension_*.js</li><li>screen_*.js</li></ul>	This command saves the contents of /a /axesdemo directory:	
	<ul> <li>screens.jsn</li> <li>Tables_Static.txt</li> <li>Tables_Dynamic tyt</li> </ul>	SAV DEV('/qsys.lib/savefilelib.lib/RAMPTSF.fi OBJ(('/axes') ('/axesdemo'))
	<ul> <li>Userenv.js</li> <li>*.xml</li> <li>Note that some of these files</li> </ul>	This command saves the required files private folder to a save file:
	may not exist in your system. Also include the uf_sy420_rts.js	SAV DEV('/QSYS.lib/QGPL.lib/RAMPTSF.file OBJ(('/axes/ts/screens/MyFolder/application_def ('/Axes/ts/screens/MyFolder/application_definiti

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	Also include the uf_sy420_rts.js file if your application uses shared scripts. This file is located in the ts/skins folder or your private definition folder. If the application is to be displayed in a language other than English, the modified text files, Texts_Cust_*.txt also need to be deployed.	('/Axes/ts/screens/MyFolder/application_definition.js') ('/Axes/ts/screens/MyFolder/Extension_*.js') ('/Axes/ts/screens/MyFolder/screen_*.js') ('/Axes/ts/screens/MyFolder/screens.jsn') ('/Axes/ts/screens/MyFolder/Tables_*.txt') ('/Axes/ts/screens/MyFolder/Userenv.js') ('/Axes/ts/screens/MyFolder/*.xml') ('/Axes/ts/skins/uf_sy420_rts.js')) TGTRLS(V5R3M0) If you wish to enter this command freehand from
Files named like N.scn represent a single 5250 screen definition. Normally these files are only used while doing RAMP-TS development and do not need to be deployed to execution/run time target systems. You would only include these files in the deployment package if you want to allow people in the target environment to modify screen definitions.	If you wish to enter this command freehand from the command line, use CALL QCMD. Pressing F11 from within QCMD will provide you with space to enter the SAV command with many objects.	

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#### WEB-RAMP-TS, Step 3. Install your RAMP-TS Screen Definitions at the Deployment Target

Step	Activity	How to Do It
Install Axes- TS on the target computer	Axes-TS needs to be installed on the target IBM i server.	See Install and Configure RAMP-TS/aXes-T your IBM i Server.
Create application folder	On the target system, create an application folder as a subfolder of the \axes\ts\screens folder using the ibm i CRTDIR command.	The name of the folder can contain only from the English alphabet or numbers, no blanks. For example to create folder MyApplication \axes\ts\screens\ folder: CRTDIR DIR('axes\ts\screens\myapplication1')
Set authorities	Use the IBM i WRKLNK command and make sure that folder MyApplication1 has *R rights for user *PUBLIC and no other rights.	Use WRKLNK OBJ('axes\ts\screens\ MyApplication1') then use option 9=Wor authority to display and alter the authori folder MyApplication1.
Load tables	SQL commands may be used to load any static or dynamic tables in your application. Check that the user the aXes server is executing under has READ authorisation to any required SQL/database tables.	The commands execute under the user p that the aXes server is executing under. You should authorise that user profile for access to the SQL tables required for this purpose. This user does not need any rig other data base tables that may be on th system.
Deploy the save file containing the aXes definitions to the target system	On the target system, use the IBM i RST command to restore the aXes files into the target system's application folder. Warning: The restored	To restore the save file use a command lik RST DEV('/qsys.lib/v11vlflib.lib/ramptsf.file') OBJ(('/Axes/ts/screens/MyFolder' *INCLUDE '/axes/ts/screens/myapplication1')) The DEV parameter specifies the name an of the save file
	screens isn file(s)	

4		screens.jsn file(s)	
		screens.jsn file(s) contains all your RAMP- TS screen definitions. If someone on the target system starts Axes as a developer/designer and attempts to identify a screen and save the definition, they will cause the screens.jsn file to be (re)published. This will effectively remove all the screen definitions from it except for the new screen they have just defined. In this case you would need to restore the screens.jsn file(s)	<ul> <li>The OBJ parameter specifies:</li> <li>First the folder from which the files were saved from</li> <li>*INCLUDE the objects that match the object name pattern</li> <li>Lastly the folder on the target system to which the files are to be restored.</li> </ul>
		again. Note that aXes eXtensions that are to be used by all applications on this system should be placed in the axes/ts/screens folder of the target system, not to individual application folders.	
		If the same aXes eXtension exists in the screens folder and the application folder, the eXtension in the application folder should take precedence but can not be guaranteed so you should check whick version is being used.	
	Verify IE settings	Verify IE settings on every PC from which RAMP-TS is used.	See Verify Internet Explorer Security Settings in the RAMP-TS Guide.

#### VLF Deployment Check Lists > Check List/Planning Sheet => WEB-RAMP-TS

## WEB-RAMP-TS, Step 4. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Updating changes to 5250 screen definitions	When you add new 5250 screens to your RAMP application or modify the features of an existing screen, these changes are reflected in the screens.jsn file(s) which you will need to redeploy.	Completely or selectively repeat the appropriate steps in this guide.
Backup and Recovery strategy	You should have a regular backup and recovery strat place for your target syste	egy in m.
Maintenance strategy	You should devise a strate deploying modifications you make to your VLF applicat	gy for ou ions

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VLF Deployment Check Lists

### Check List/Planning Sheet => WEB-RAMP-NL

Use this check list in conjunction with Check List/Planning Sheet => WEB1.

 Overview
 WEB-RAMP-NL, Step 1. Pre-Requisite Actions and Other Considerations
 WEB-RAMP-NL, Step 2. Create RAMP-NL Objects to be Included in the Deployment Package
 WEB-RAMP-NL, Step 3. Add RAMP-NL Objects to the Deployment Package
 WEB-RAMP-NL, Step 4. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WEB-RAMP-NL

#### Overview

This section shows how to configure RAMP-NL to automatically deploy newlook for the end-user when they first log on to the system. This approach eliminates the requirement for local manual installation and configuration, thereby simplifying deployment maintenance.

The following activities should be developed and thoroughly tested on your server.

These notes indicate the usage of newlook Version 8.0. The steps for other releases of newlook are similar.

#### About configuring the Web RAMP-NL Application to Automatically Deploy Newlook

To automatically deploy newlook you simply point your browser at a nominated web page. If the browser detects that newlook has not been installed on the PC, it will automatically initiate the newlook ActiveX download with no user interaction required other than perhaps an ActiveX download confirmation screen, after which newlook is invoked.

The client PC does not require any specific software other than Windows and Internet Explorer.

When the client accesses its first RAMP-NL screen, it will download the newlook files to the local PC. For subsequent access, the files previously installed will be used. Any updates that are made to the web server will be downloaded and installed as required. In other words, only those files that have been updated are downloaded and installed, as opposed to the complete package.

Note that the ActiveX control will always request its licenses from the bost. For newlook 8.0, a liteclient licence ٠

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## WEB-RAMP-NL, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It	ü	
LANSA for the iSeries, LANSA for the Web, and Visual LANSA Framework installed on the IBM i server.	You require a functioning Visual LANSA Framework system running in order to be able to use RAMP-NL.			
Newlook installed on the development computer	You will need to start with an full installation of Newlook on your development computer. A full installation			
	means one that is installed from a newlook setup program and not a nlmain.cab file.			
Licensing requirements for the target system				
Establish the minimum supported configuration (MSC)	<ul> <li>You need to formally deminimum configuration solution will viably supplincluding:</li> <li>Minimum hardware requirements</li> <li>Minimum software requirements</li> <li>Supported screen resolutions</li> <li>Minimum petworki</li> </ul>	<ul> <li>A formal MSC will:</li> <li>Inform decisions at overall solution cost</li> <li>Establish the environ required to test the the solution or any provide to it.</li> <li>Raise management of the risk in implem MSC" solution.</li> </ul>	<ul> <li>A formal MSC will:</li> <li>Inform decisions about the overall solution cost</li> <li>Establish the environment required to test the deployme the solution or any patch/hotf made to it.</li> <li>Raise management's awarer of the risk in implementing a MSC" solution.</li> <li>For more information refer to Application Defermence in the sector.</li> </ul>	



#### WEB-RAMP-NL, Step 2. Create RAMP-NL Objects to be Included in the Deployment Package

These steps need to be completed to create RAMP-NL objects to be included in the deployment package created in check list WEB1.

 WEB-RAMP-NL, Step 2a. Create a RAMP\_Newlook folder in the Private Working Folder
 WEB-RAMP-NL, Step 2b. Copy newlook files to RAMP\_Newlook folder
 WEB-RAMP-NL, Step 2c. Create RAMP.cab file and copy it to the RAMP\_Newlook Folder
 WEB-RAMP-NL, Step 2d. Specify Codebase and Update File
 WEB-RAMP-NL, Step 2e. Test the Automated Web Deployment Package

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VLF Deployment Check Lists > Check List/Planning Sheet => WEB-RAMP-NL > WEB-RAMP-NL, Step 2. Create RAMP-NL Objects to be Included in the Deployment Package \*

#### WEB-RAMP-NL, Step 2a. Create a RAMP\_Newlook folder in the Private Working Folder

To deploy newlook automatically via the browser when running your RAMP-NL application, you will need to install some newlook objects onto your web server. The section recommends where to create a dedicated folder on your web server in which to place these objects. You must also confirm that the folder can be accessed via a browser as detailed below.

Step	Activity	How to Do It
Prepare the web	Create a new folder called	To test this, type in the URL for the new RAMP_NewLook directory in a browser. For example:
server	RAMP_Newlook in the Visual LANSA Framework Private	http://wsrv/images/private/RAMP_Newlook/
	folder on your web server.	Iocalhost - /images/private/RAMP_newlook/ - Microsoft Internet Explorer     Eile Edit View Favorites Iools Help
	In the	Address Chip://localhost:81/images/private/RAMP_newlook/
	folder, create a file	localhost -
	Add some text to	/images/private/RAMP_newlook/
	(any dummy text will work).	[To Parent Directory]
	Make sure that you can access	
	tne RAMP_NewLook folder using vour	
	browser and view your test file.	
Domovic	If the provinue	
the test	step is successful,	
	VOIL CALL DOW	
file	you can now	•
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	Test.txt file (The above step was only used to confirm you have web access to the RAMP_NewLook folder.)	

#### WEB-RAMP-NL, Step 2b. Copy newlook files to RAMP\_Newlook folder

A number of CAB files plus a file that tells the server what to download need to be placed into the RAMP\_Newlook folder on your web server.

Three of these files will need to be downloaded from the Look Software web site - please do not try to create these yourself. One reason for this is that these files are already digitally signed, so it will save you the problem of having to digitally sign them yourself. Also, these CAB files contain the information required to register the newlook AxtiveX on the target PC.

(There is one file, the RAMP.cab file, which you not download from the Look Software web site but will need to create yourself in the next step.)

Download the standard cab files from the Look Software site	Access the http://www.looksoftware.com/cab80/ site and download the following files: Newlook.cab Nlmain.cab Nlupdate.nlu Place these files in the new RAMP_NewLook folder on your webserver.	
Change the	Rename Nlupdate.nlu to Nlupdate.txt.	
NewLook update file extension	Note: Depending on your PC security settings, this file may have downloaded as Nlupdate.nlu.txt.	
to tyt	The reason we do this is because	

4	to .txt	The reason we do this is because	
		web servers recognize .txt files as safe, but may not recognize .nlu files as safe. Chances are that your users will encounter problems downloading the file if you leave the .nlu suffix.	
	Change the NewLook update file to point to the CAB files on your web server	newlook's automated web deployment is done by simply pointing the browser at a nominated web page. When a browser detects that the newlook software has not been installed on the PC, it will automatically initiate the software download and then invoke newlook within the web page. The information in the nlpudate.txt file tells the system where to download the newlook CAB files from. Open Nlupdate.txt file and modify its contents as follows: Change all references to nlconfig.cab to RAMP.cab Change the newlookDir value to "%ProgramFiles%/LANSA RAMP NewLook" or another meaningful name. This will become the directory that newlook is loaded into on the target PC. Change the url values for the [nlmain.cab] and [RAMP.cab] cab files to reference where these files are located on your own web server. Save your changes.	The resulting file will look something like this: [newlook] Update=nlmain.cab,RAMP.cab newlookDir=%PROGRAMFILES%\LANSA RAMP newlook [nlmain.cab] Desc=newlook Program Files Url=http://wsrv/images/private/RAMP_newlook/nlmain.cab [RAMP.cab] Desc=newlook Configuration Files Url=http://wsrv/images/private/RAMP_newlook/RAMP.cab

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#### WEB-RAMP-NL, Step 2c. Create RAMP.cab file and copy it to the RAMP\_Newlook Folder

The RAMP cab file will contain the newlook.sid and newlook.ini configuration files. These are unique to a particular application. You need to create this file yourself then move it onto the RAMP\_newlook directory on your web server.

Optionally reduce the size of newlook.SID file	Before you build your cab files it is recommended that you compact the newlook.SID file to make deployment of newlook to the target system faster.	Take a backup of the newlook.sid file as a precaut Close any newlook sessions Open a DOS prompt Navigate to your newlook program files directory To remove newlook developer features from the . and build a new compacted .SID file type: CHKSID -s newlook.SID Or if for some reason you want to retain the deve features but build a compacted sid file, type: CHKSID -r newlook.SID Press <enter>. If you are asked whether you wish to delete corru items select 'Yes'. When the compression is comp the original file is backed up to a file of the same but with an extension of .BAK. Please test that your RAMP-NL application execut correctly after you have performed these steps a before you build the CAB files.</enter>
Start the newlook Deployment	Locate file nldeploy.exe in the looksoftware 8.0	To start click Next.  newlook Deployment Wizard  Welcome to the newlook Deployment Wizard.

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		newlook Deployment Wizard
Wizard	directory and start the application. This application will be used to create the RAMP.cab file holding our own .SID and .INI files.	Welcome to the newlook Deployment Wizard.         Files to be deployed are compressed into .CAB (cabinet) files which can be uploaded to a web site. These cabinet files can be automatically downloaded and installed with the help of newlook's Nlupdate program.         This wizard allows you to create or modify CAB files to deploy custom versions of newlook.         To start, click Next         < Back
Enter newlook path name	Enter the path name in which your newlook installation resides (the top- level directory which contains the files to be deployed). Click Next.	For a default installation this will be C:\Program         Files\looksoftware 8.0.         rewlook Deployment Wizard         To deploy newlook, you need to have all of the files you wish to deploy in a directory structure that will be duplicated on the destination machine.         Enter the path name of the top-level directory which contains the files to be deployed and click Next.         C:\Program Files\looksoftware 8.0
Use the	You may leave the	Our nlupdate.txt file already has set this value to
default target path name	default value as it is. The value entered here is used in the nlupdate.nlu file created by this nldeploy.exe application. In <u>WEB- RAMP-NL</u> , <u>Step 2b.</u> <u>Copy newlook files</u> <u>to RAMP_Newlook</u> <u>folder</u> we created our own nlupdate.nlu (with the suffix changed to .txt), so we will not be using the one created by this application.	%PROGRAMFILES%\LANSA RAMP newlook.

#### WEB-RAMP-NL, Step 2d. Specify Codebase and Update File

You need to add a reference to the newlook.cab and nlupdate.txt files so that your application checks whether newlook is already installed on the user's PC, and if not, downloads it from the RAMP_Newlook folder on your web server.	You can do this by specifying the codebase and update file: In the server definition or In the URL when executing your application	In the server definition in the Framework, specific codebase: <b>RAMP_NewLook/newlook.cab#version=8,0,</b> update file: <b>RAMP_NewLook/nlupdate.txt</b> Alternatively you can specify the codebase and update file in the URL when executing the application using these parameters: +NLCODEBASE= +NLUPDATEFILE=
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Note that prior to EPC831, the codebase and update file were specified by modifying the VF\_SY120.js file.

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#### WEB-RAMP-NL, Step 2e. Test the Automated Web Deployment Package

Test the deployment on a PC that	You should do the following test on a PC that does not	<b>Warning:</b> The testing of a web RAMP-NL applicatic automatically deploy newlook should NOT be done your development machine.
does not have newlook have installed on it. newlook installed.	This is so to avoid overriding your development se as well as to avoid any confusion in the testing rais having a number of newlook environments installe one PC. You should begin your testing on a clean s that does not have newlook installed.	
Run your RAMP-NL application	Enter the URL of your RAMP-NL application in a browser window on a PC other than your development PC The test PC	When you request a RAMPed screen for the first tir VF_SY120.js will start the automated download and installation of newlook. You will likely first be prompted as to whether or no want to install the newlook ActiveX control. Click to to any security warnings.
	should not have newlook installed. If newlook is installed on the PC, uninstall it and run the nlclean facility (see <u>WEB-RAMP-NL</u> ,	Favorites  Favorites
	<u>Step 4. Post-</u> <u>Requisite Actions</u> <u>and Other</u> <u>Considerations</u> ).	Follow the prompts that Internet Explorer displays Depending upon what version of Windows you are running, and certain other factors, you may receiv couple of prompts asking you if it is ok to install th newlook ActiveX control.
		Internet Explorer - Security Warning
		Do you want to install this software?           Name:         newlook 8.0 Update           Publisher:         looksoftware Inc.
		More options     Install     Don't
		While files from the Internet can be useful, this file type can potentially your computer. Only install software from publishers you trust. What's

	Publisher: looksoftware Inc.
	More options
•	While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. <u>What's the risk?</u>
	You must click Install to any security warnings you receive associated with the ActiveXClient.htm page.
	You should see that the Publisher field on the security warnings is set to looksoftware Inc.
	After you click Install to the software, the automated download/install process begins. You will see newlook 8.0 updated progress windows while the different cab files are being downloaded.
	newlook 8.0 update
	Updating newlook Program Files
	Mages/VLF_Private_ /RAMP_newlook/nli
	Time remaining: 5 sec 5,800 bytes/sec
	The installation and configuration process should take about 30 seconds. If this process takes much longer, it is normally a problem with the web server you are using, or your network connection.
	For initial testing, it is ok to use any web server that you have available to you (for example, the one on your PC). However, for the automated deployment package you will use for your production users, you will likely want to use a dedicated web server.
	Once newlook has been downloaded, your RAMPed screen will appear in the command handler.

Now proceed with WEB1, Step 2. Package the Deployment Material on the Source System.

#### WEB-RAMP-NL, Step 3. Add RAMP-NL Objects to the Deployment Package

Include the files from the RAMP_Newlook folder	Iude the files m the MP_Newlook der Include all the files in the RAMP_Newlook folder files in the Bnn_IFS save file. NImain.cab Newlook.cab Nlupdate.txt RAMP.cab	newlook.cab – This cab file hosts the newloo ActiveX control (nlocx.dll) and the update program (nlupdate.exe). Internet Explorer wi use this newlook.cab file to download and install the newlook ActiveX control if it is not already present on the user's PC. nlmain.cab – This cab file hosts the bulk of tl newlook program files. It installs most of the files that would normally be installed by the setup wizard when you execute the setup program (i.e. nl80.exe).
		nlupdate.nlu – This file tells the newlook update program (nlupdate.exe) where to install newlook to the user's PC, and where t get the cab files that will be used to install newlook and your customization files.
		RAMP.cab - This file contains the newlook.sid and newlook.ini configuration files. These are unique to our particular application.
		Note: The RAMP.cab contains objects that wi very likely change as you make changes to your system (for example if you identify new screens) so it will need to be redeployed afte changes to the RAMP-NL application.

Now proceed with WEB1, Step 2. Package the Deployment Material on the Source System.

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## WEB-RAMP-NL, Step 4. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Backup and Recovery strategy	You should have a regular backup and recovery strat place for your target syste	egy in em.
Maintenance strategy	You should devise a strate deploying modifications y make to your VLF applicat	egy for ou cions
Updating changes to newlook configuration files	When you add new 5250 screens to your RAMPed application or modify the newlook features of an existing screen, these changes are reflected in the newlook.sid file which you will need to redeploy.	To do this, recreate the RAMP.cab files us exactly the same steps as described in <u>V</u> RAMP-NL, Step 2c. Create RAMP.cab file; copy it to the RAMP_Newlook Folder. Note that even if only one of the files in RAMP.cab file changes, you should incluc the other files that you had the first time This is so that the RAMP.cab file always contains all the files required by new and existing users. Once the RAMP.cab file is recreated you move it to your RAMP_NewLook directory your web server for immediate access to your user. NOTE: Ensure that you implement this update at the same time as you implement your other related Visual LANSA Framew and RAMP updates.

	Testing	You will very likely	Before you re-install, you need to remove th
	deployment of	want to test your	newlook files that have already been
	changes to	changes a number of	downloaded, and unregister the newlook Act
	newlook	times on the same PC	control (nlocx.dll) and ActiveX server (nlsvr.
	configuration	- that is, run the re-	To do so, perform the following steps:
	files	install several times.	1. Execute the nlclean.exe utility on the test
4			PC This can be obtained from

			<ul> <li>ftp.looksoftware.com/distributor/tools/nlclean.exe</li> <li>Answer "Y" to each of the questions in the utility.</li> <li>2. Delete the newlook web download folder from the testing PC. (if you have followed the naming conventions recommended in our notes, this would be the %Program Files%/LANSA Ramp newlook folder.)</li> <li>After doing this the RAMP application will realise that newlook needs to be installed again.</li> </ul>
	There are a number of ways to test your changes.	The following is a possible approach that tests an initial installation then a subsequent modification: Step 1: Working with a RAMPed application, perform the steps described in <u>WEB-RAMP-NL</u> , Step 2e. Test the Automated Web Deployment	
			Package. Step 2: Using a new PC without newlook already installed, access the application with the appropriate URL. Ensure that you can run your RAMPed application.
			Step 3: Make some changes to the newlook.sid file to ensure that changes are downloaded. For example modify the look of one of your RAMPed screens (re-position the fields in newlook for example) and then perform the steps described in <u>Updating changes to newlook configuration</u> files. Access the URL again and check that the new newlook.sid file is downloaded and that the changes you made on the screen are shown.
			Step 4: You should probably also do a full test of the procedures involved in adding new functionality to the RAMPed application. Such a process could include creating a new business object that requires you to identify some new screens in newlook plus run through the choreographer to RAMP the new screens. With this test, you can ensure that both the newlook changes and the script are correctly loaded into the end-user's browser.
			NOTE: When testing for updates to newlook ensure that what is occurring is not a complete new installation but only the download of modified files.

VLF Deployment Check Lists

### Check List/Planning Sheet => WEB-NET

Use this check list in conjunction with Check List/Planning Sheet => WEB1, Check List/Planning Sheet => WEB2A or Check List/Planning Sheet => WEB2B.

 Overview
 WEB-NET, Step 1. Pre-Requisite Actions and Other Considerations
 WEB-NET, Step 2. Create VLF.NET Objects to be Included in the Deployment Package
 WEB-NET, Step 3. Add VLF.NET Objects to the Deployment Package
 WEB-NET, Step 4. Install Microsoft's .NET Framework on end-user PCs
 WEB-NET, Step 5. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WEB-NET

#### **Overview**

Any Framework Web Browser application can be compiled as a .NET executable. The VLF.NET feature supports all existing and new WAM filters and command handlers and all RAMP-NL screens and scripting.

This check list outlines the steps required to deploy a VLF.NET application.

#### WEB-NET, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Ensure the VLF. NET feature is suitable for your circumstances	If the users are behind a proxy server that requires them to enter their username and password, the VLF.NET feature cannot be used.	
	This is a limitation of .NET ClickOnce deployment technology which does not currently support downloading of files through a proxy server that requires non- Windows integrated authentication.	

Establish minimum supported configuration (MSC)	<ul> <li>You need to formally define the minimum configuration your solution will viably support, including:</li> <li>Minimum hardware requirements</li> <li>Minimum software requirements</li> <li>Minimum networking capabilities</li> <li>Maximum data volumes.</li> </ul>	<ul> <li>A formal MSC will:</li> <li>Inform decisions about the overall solution cost</li> <li>Establish the environment required to test the deployment the solution or any patch/hotfix made to it.</li> <li>Raise awareness of the risk in implementing an "under the MS solution to the appropriate management level.</li> <li>For more information refer to Application Performance in the Framework Guide.</li> </ul>
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#### WEB-NET, Step 2. Create VLF.NET Objects to be Included in the Deployment Package

Step	Activity	How to Do It
Activate the VLF.NET Feature	Open your Framework as a designer. Use the (Framework) -> (Properties) menu options to display the Framework Details tab. Ensure that the Enable Framework for Web Browser Applications option is checked. Check the Compile Framework as Microsoft .NET Executable option.	Identification       Custom Properties       Visual Styles       Icons       Startup       Commands Enabled       Framework         Framework Design and Run Time Properties       Icons       Startup       Commands Enabled       Framework         Enable Framework for Web Browser Applications       Icons       Enable Framework for AJAX style applications         Compile Framework as Microsoft .NET Executable       Icons       Icons       Icons       Icons         Icons       Allow Panes to be Shrunk and Expanded       Icons       Icons       Icons       Icons
Save the Framework	Save the Framework to compile it as a .NET executable.	Use one of the Save options in the (Framework) menu

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# WEB-NET, Step 3. Add VLF.NET Objects to the Deployment Package

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Include VLF.NET objects in the deployment package	When you save the framework with the VLF.NET feature activated, additional .NET files are created.	
	There are four files per language, suffixed with:	
	<ul> <li>.application</li> <li>.exe.manifest,</li> <li>.framework.deploy</li> <li>.app.exe.deploy</li> <li>Add these files to your</li> <li>deployment package.</li> </ul>	
	Also add the files VF_WB001.HTM and VF_MULTI_YYY.js (where YYY is the language code).	

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#### WEB-NET, Step 4. Install Microsoft's .NET Framework on end-user PCs

Install Microsoft's .NET Framework on end-user PCs	Ensure that Microsoft's .NET Framework 2.0 (or later) and .NET Framework 2.0 Service Pack 1 is installed on end-user PCs.	
	If .NET Framework 3.5 has been installed, .NET Framework 2.0 Service Pack 1 does not need to be installed separately.	
	Some problems have been reported when installing .NET Framework 2.0 Service Pack 1 on Vista, in which case .NET Framework 3.5 will be have to be installed.	
	.NET 2.0 Software Development Kit (SDK) is not required.	

#### WEB-NET, Step 5. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Consider whether you need to set up or deploy any security certificates	See Digital Certificates in the Framework Guide.	

Backup and Recovery strategy	You should have a regular backup and recovery strategy in place for your target system.	
Maintenance strategy	You should devise a strategy for deploying modifications you make to your VLF applications	

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VLF Deployment Check Lists

## Check List/Planning Sheet => WIN1

 Overview
 WIN1, Step 1. Pre-Requisite Actions and Other Considerations
 WIN1, Step 2. Package the Deployment Material on the Source System
 WIN1, Step 3. Move the Deployment Material to the Target System
 WIN1, Step 4. Install the Deployment Material on the Target System
 WIN1, Step 5. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WIN1

#### **Overview**

This check list shows the steps required to deploy an application to a stand-alone Windows workstation with its own database.

In production environments this kind of deployment is unusual, but it is useful in the context of tutorials, demos and testing.

#### WIN1, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do I	lt	ü
Licensing requirements for the target system	None			
A Framework application ready for deployment	You need to have an version of your Fram application ready for deployment	executable ework	For more information see: a Framework Version in th Framework Guide.	Deployin e
Establish the minimum supported configuration (MSC)	<ul> <li>You need to formally minimum configuration solution will viably surface including:</li> <li>Minimum hardwarequirements</li> <li>Minimum softwarequirements</li> <li>Supported screeteresolutions</li> <li>Minimum networe capabilities</li> <li>Maximum data warea</li> </ul>	define the on your upport, are ire n rking volumes.	<ul> <li>A formal MSC will:</li> <li>Inform decisions about overall solution cost</li> <li>Establish the environ required to test the detection or any path made to it.</li> <li>Raise management's of the risk in implement MSC" solution.</li> <li>For more information refection Performance i Framework Guide.</li> </ul>	ut the ment ployment cch/hotfix awarenes nting a "su r to n the

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#### WIN1, Step 2. Package the Deployment Material on the Source System

Follow these steps when your application is ready to be deployed.

Step	Activity	How to	o Do It
Start the Deployment Tool	Logon to Visual LANSA an the Deployment Tool.	d start	Start Visual LANSA and logon to t partition containing the application be deployed.
			Ensure that you use a user profile which is authorized to the object that are being deployed.
			From the Tools ribbon, select the Deploy button. The Visual LANSA Deployment Tool's main window ' open.

Create a Deployment Tool application	Create an application and a package using the Deployment Tool.	Click on the New Application butt on the tool bar or select the New command from the Application m
and package	Base the package on template called XALONE.	Fill in the application details. Click OK. You are prompted to cre a Package. Fill in the package det and click OK. The Package Control Panel is displayed

Specify package settings	Deploy System/Partition     Definitions	Click on the Package Settings bu on the toolbar to display the Pac Settings window.
	Omit Object Definitions	
	Deploy LANSA Execution     Environment	
	Deploy Execution Database     Support	
	Deplet Execution Add One	•

•	Deploy Execution Add-Ons	
	<ul> <li>Deploy with Component Support</li> </ul>	

form in your application. UF_EXEC is the standard start-up form. Most likely you have	to Execute (FORM=) in the Require Execution Parameters area.
form. Most likely you have	
created your own entry point form so specify its name.	
Note that your entry point form needs to point to the correct Framework definition file. For more information see Deploying a Framework Version in the Framework Guide.	
	form so specify its name. Note that your entry point form needs to point to the correct Framework definition file. For more information see Deploying a Framework Version in the Framework Guide.

Decide what execution parameters need to be prompted	If you want to prompt for a setup parameter when the package is installed, enable the prompting by selecting the parameter and checking the Prompt during installation option.	For example, to enable the Prompting of the Target Directory option, double-click the parameter and select the Prompt during SETUP check box in the window which is displayed.
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#### WIN1, Step 3. Move the Deployment Material to the Target System

Step	Activity	How to Do It
Move the deployment material to the target system	Copy the msi file (package us.msi) in the package fold (\X_WIN95\X_LANSA\x_app to the required destination CD, network server etc. (Note: Do not copy the ent directory.)	name_v1.0.0_en- ler s\packagename\) media such as ire package

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### WIN1, Step 4. Install the Deployment Material on the Target System

Step	Activity	How to Do It
Install the deployment material	Install the package by dou clicking the package .MSI	ıble- file.
	The setup program autom launches the Framework. the Framework is first lau executable files are copie the Framework is displaye	atically When nched d and ed.
	The application is ready to used.	o be
	If you encounter problems the installation, check the MSI*.log file in the end us defined %TEMP% folder, f example: MSI2ce4c.log.	s during er's or
	As well as installing the Application, a standard W program menu folder will created for each Applicati using the Company and Application descriptions a names. This means that e Application built with the Company details and inst the same PC will be group together.	indows be on s folder very same alled on ed

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#### WIN1, Step 5. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Security considerations	Consider setting some important files as read-on security reasons.	ly for
	For example, deployed sy XML definition files should to read-only to prevent er users from accidentally ed the content of the file.	stem I be set Id- Jiting

Backup and	You should have a regular
Recovery	backup and recovery strategy in
strategy	place for your target system.

Maintenance	You should devise a strategy for
strategy	deploying modifications you make to your VLF applications.

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VLF Deployment Check Lists

## Check List/Planning Sheet => WIN2

Overview
WIN2, Step 1. Pre-Requisite Actions and Other Considerations
WIN2, Step 2. Package the Deployment Material on the Source System
WIN2, Step 3. Move the Deployment Material to the Target System
WIN2, Step 4. Install the Deployment Material on the Target System
WIN2, Step 5. Post-Requisite Actions and Other Considerations

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### **Overview**

This check list shows the steps required to deploy the client part of a Framework rich client/server application to a workstation that will access an IBM i or Windows remote data server.

# WIN2, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It	ü
Licensing requirements for the target system	None		
On the	Set the Framework	Display the Framework p	roperties and choose
development	to require users to	User Administration tab.	
system set up the Frameworl so that users sign on to remote server	sign on to remote server.	In Sign On Settings, spec must sign on to this Fram option Users sign on to a Framework.	ify the option End us€ nework and then choc Remote Server to Us
		Sign on Settings	
		End Users must Signon to this Fran	mework in both M
		Users Sign on Locally to Use the	e Framework sword
	<ul> <li>Users Sign on to a F</li> <li>Users May Work</li> </ul>		ver to Use the Framework he Remote Server Is Not Availa
Define the server to which the Framework will be connecting when deployed	Your Framework definition will need to include a definition of the server to which the client application will	Choose the Servers optio menu and ensure there is Server Details Identification Icons Server Type: Server Name:	n in the Administratic a definition for the s LANSA for Windows
	connect.	Partition	DEM
	If you want to	Client-Server Translation Table:	QEBCDIC
c	change the server	Server-Client Translation Table:	QASCII
	settings on the target machine	Selection Block Size:	50
	after you have	Selection Limit:	10,000
	installed the	-Windows or Unix Databases	
	package, you	Database Name:	LX_LANSA
	need to deploy		

		Colorition Direly Ci-			
		Selection Block Siz	:e:	50	
		Selection Limit:		10,000	
		-Windows or Unix	Databases		
		Database Name:		LX_LANSA	
	and execute the	Database User:		DBA	
	UF_ADMIN form.	Database Passwo	rd:	SQL	
	See: Deploying	Database Type:		ASA (for all Intel platt	forms)
	Server Definitions	butabase rype.		ASA (for all interplat	lornisy
	guide.	Server Overrides:			
	Note that if the server is a Windows server, you need to specify the details	If you are de need to spec the server th Definition Fo create on the	ploying a RAM ify the RAMP- e deployment lder is the app e target syste	1P-TS application TS server deta t server. The P plication folder m.	on you also ils, making rivate <sup>-</sup> you will
	of the database	-RAMP-TS (Terminal	Server)		
	the client	Save as deploymen	t server	Z	
		IP Address			
	connecting to:	Port Number		8134	
		Execution Mode Loa	ad Path	/ts/skins/	
		RAMP Tools Mode L	oad Path	/ts/dev/	
		Private Definition F	older	myapplication1	
			Test RAMP-TS Tools	s Installation and Config	uration
Define the server in the LANSA Communications Administrator	Click on the LANSA Comms Admin button on the Server Details tab.	Define the set LANSA Con Route Table Ho Communicatio C:\Program Fil	erver: nmunications Advances ost <u>Routes</u> <u>Advance</u> ns Route Table and les\LANSA\Connec	<mark>dministrator</mark> :ed <u>H</u> elp Path: t\LROUTE.DAT	
		Host Routes Partner L *LOCAL APPN.LA APPN.LA DC_PGM INTERN/ LANSA0 LANSA0 LANSA0 LANSA31 NT2 NT3 WINSER	U Qualified localhost INSA01 LANSA01 INSA02 INSA03 LANSA03 ILIB AL DEV LANSA03 ILIB AL SY LANSA03 I lansa01 3 LANSA03 RV LANSASF NT2 NT3 VER 10.2.1.53	Name Method Socket Socket Socket Socket Socket Socket Socket Socket Socket Socket Socket Socket Socket	
A Framework application	You need to have an	executable	For more info	ormation see: [	Deploying

### WIN2, Step 2. Package the Deployment Material on the Source System

Follow these steps when your application is ready to be deployed.

Step	Activity	How to	o Do It
Start the Deployment Tool	Logon to Visual LANSA an the Deployment Tool.	d start	Start Visual LANSA and logon to t partition containing the applicatic be deployed.
			Ensure that you use a user profile which is authorized to the object: that are being deployed.
			From the Tools ribbon, select the Deploy button. The Visual LANSA Deployment Tool's main window open.

Create a Deployment Tool application	Create an application and a package using the Deployment Tool.	Click on the New Application butt on the tool bar or select the New command from the Application m
and package	Do not use any template.	Fill in the application details.
		Click OK. You are prompted to cre a Package. Fill in the package det and click OK.
		The Package Control Panel is displayed

Specify package settings	<ul> <li>Deploy to Client Without Local Database</li> <li>Deploy System/Partition Definitions</li> <li>Omit Object Definitions</li> </ul>	Click on the Package Settings bu on the toolbar to display the Pac Settings window.
	Deploy LANSA Execution	
1		▶

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<b>4</b> 1	Environment	▶1
	<ul> <li>Deploy with Component Support</li> <li>Deploy LANSA Communications</li> </ul>	

Configure the application to use remote database	Because you are deploying for access to a remote database, you must configure the application not to use a specific database. In the Database section, set the database options to No and specify the DBMS Type (DBUT=) as No Database.	Double-click on the DBMS Type (DBUT=) parameter.
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Define the	Accept the defaults in the	
connection	Communications and	
behavior	SuperServer sections.	

Specify the startup form	Enter the name of the start-up form in your application. UF_EXEC is the standard start-up form. Most likely you have created your own entry point form so specify its name. Note that your entry point form needs to point to the correct Framework definition file. For more information see Deploying a Framework Version in the Framework Guide.	Double-click on the parameter Form to Execute (FORM=) in the Required Execution Parameters area.
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Decide what	If you want to prompt for a setup	For example, to enable the Prompting
execution	parameter when the package is	of the Target Directory option,
parameters	installed, enable the prompting	double-click the parameter and select
need to be prompted	by selecting the parameter and checking the Prompt during installation option.	the Prompt during SETUP check box in the window which is displayed.

#### WIN2, Step 3. Move the Deployment Material to the Target System

Step	Activity	How to Do It
Move the deployment material to the target system	Copy the msi file (package us.msi) in the package fold (\X_WIN95\X_LANSA\x_app to the required destination CD, network server etc. (Note: Do not copy the ent directory.)	name_v1.0.0_en- ler is\packagename\) media such as ire package

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#### WIN2, Step 4. Install the Deployment Material on the Target System

Warning: Do not test your deployment package on your development system.

Step	Activity	How to Do It
Server system is set up	Before you start installing the client deployment package you must have deployed the server side of the application.	
· · · ·		
Listener	Make sure you have a liste running on the server.	ener
	1	
Install the deployment	Install the package by dou clicking the package .MSI	ıble- file.
material	The setup program autom launches the Framework. the Framework is first lau executable files are copie the Framework is displaye	natically When nched d and ed.
	The application is ready to used.	b be
	If you encounter problems the installation, check the MSI*.log file in the end us defined %TEMP% folder, f example: MSI2ce4c.log.	s during er's or
	As well as installing the Application, a standard W program menu folder will created for each Applicati using the Company and Application descriptions a names. This means that e Application built with the Company details and inst the same PC will be group	indows be on s folder very same alled on bed

4]		the same PC will be grouped together.	
	Optionally install RAMP-NL	If you are installing a RAMP-NL application, follow the steps in WIN-RAMP-NL, Step 3. Install the Deployment Material on the Target System.	

If you are deploying a RAMP-TS application, verify IE settings	Verify IE settings on every PC from which RAMP-TS is used.	See Verify Internet Explorer Security Settings in the RAMP-TS Guide.
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# WIN2, Step 5. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Security considerations	Consider setting some important files as read-or security reasons.	ly for
	For example, deployed sy XML definition files should to read-only to prevent er users from accidentally er the content of the file.	stem I be set nd- diting

Backup and Tou should have a regular
Recovery backup and recovery strategy in
strategy place for your target system.

Maintenance	You should devise a strategy for
strategy	deploying modifications you make to your VLF applications.

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VLF Deployment Check Lists

## Check List/Planning Sheet => WIN3

Overview
WIN3, Step 1. Pre-Requisite Actions and Other Considerations
WIN3, Step 2. Package the Deployment Material on the Source System
WIN3, Step 3. Move the Deployment Material to the Target System
WIN3, Step 4. Install the Deployment Material on the Target System
WIN3, Step 5. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WIN3

### **Overview**

This check list shows the steps required to deploy the server part of a Framework rich client/server application to an IBM i server.

# WIN3, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It	ü
Licensing requirements for the target system	Super Server License	If you need more information, see http://www.lansa.com/support/licens	sing/index

Establish the minimum supported configuration (MSC)	<ul> <li>You need to formally define the minimum configuration your solution will viably support, including:</li> <li>Minimum hardware requirements</li> <li>Minimum software requirements</li> <li>Supported screen resolutions</li> <li>Minimum networking capabilities</li> <li>Maximum data volumes.</li> </ul>	<ul> <li>A formal MSC will:</li> <li>Inform decisions about the overall solution cost</li> <li>Establish the environment required to test the deployment the solution or any patch/hotfix made to it.</li> <li>Raise management's awarenes of the risk in implementing a "si MSC" solution.</li> <li>For more information refer to Application Performance in the Framework Guide.</li> </ul>
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#### WIN3, Step 2. Package the Deployment Material on the Source System

Step	Activity	How to Do It
Assign a build number	Assign a build number nn version of your product be released. This number will used in the following steps file naming convention.	to the ing be for a
Include your own non- LANSA objects	If your application contains LANSA objects, create sav containing them. Non-LAN objects are:	s non- e files named Bnn_OM1, Bnn_OM2, etc SA required to contain other non-LA IBM i objects.
	<ul> <li>RPG Programs</li> <li>DDS Files</li> <li>Cobol Programs</li> <li>DB2 files</li> <li>Data Areas</li> <li>Data Queues</li> </ul>	Save all non-LANSA objects into Bnn_OM1, 2, 3 n save files file using the SAVOBJ command.

	Create an IBM i Export List	Create a LANSA export list named Bnn_ALL.	Use the option Work with lists of objects to be exported of the LAI Housekeeping menu to create th export list.
	Include your own server- side LANSA objects in the	Include your own server-side LANSA objects if any.	Use the options in the Work with Export List menu to make sure a objects used in your application included in the export list.
4]			• • • • • • • • • • • • • • • • • • •

<u> </u>	export list		
	Include save files in the export list	Include the save files you have created in the export list	Use option Add other/non-LANSA objects to the list. Use F20 to find the files.

Add Framework Files	If the end-user will be storing user information in DBMS tables VFPPF06/07, you need to include them. If you are using code tables, include the code table data file FPTAB.	Use the option Add other/non-LANSA object to the list. Use F20 to find the files.
Include file data	Include data in the files you have selected. Note that you would not normally ship all the development user data in tables VFPPF06/07. However, if no one in the target environment can use UF_DESGN, and the Framework is deployed with security switched on, you might ship the user files containing a single administrative user. A profile for that administrator would have to exist already or be created on the target server. If a user at the target environment has access to UF_DESGN, the files can be shipped without data, and the person with UF_DESGN can enroll the administrator in VFPPF06/07. From then on the administrator can enroll users using UF_ADMIN.	

Export the list	Create a save file Bnn_ALL for your export list using the CRTSAVF command.
	Export your export list to the save file using option 7 (= Export) in the Work with Export Lists menu

VLF Deployment Check Lists > Check List/Planning Sheet => WIN3

### WIN3, Step 3. Move the Deployment Material to the Target System

There are many ways to physically deploy the Bnn\_ALL save file:

- Tape for IBM i
- CD for an IBM i
- CD for a PC
- E-mail
- Web site download

### WIN3, Step 4. Install the Deployment Material on the Target System

Step	Activity	How to Do It
Install LANSA for the iSeries on the target IBM i server	From the LANSA CD install LANSA for the iSeries. Note that the LANSA syste to be on the same version EPC level as the system on which the deployment mat was created.	Follow the instructions in <u>Installin</u> <u>LANSA on IBM i Guide</u> . m has and erial
Import	Use LANSA's import facility	v to Use the option Import objects into

Import deployment material to the application server	install everything from the save file Bnn_ALL to the appropriate partition on the target machine.	Use the option import objects into this partition of the LANSA Housekeeping menu. Check that import was successful.
--	---	--

Restore RAMP- TS objects	If you are deploying a RAMP-TS application, you need to restore the RAMP-TS objects.	See WIN-RAMP-TS, Step 3. Install RAMP-TS Screen Definitions at the Deployment Target.
Restore the non-LANSA objects	If your application contains non- LANSA objects, restore everything from the Bnn_OMn files into the appropriate IBM i library on the target system.	

Verify the Check the import job logs for any software errors and warnings. If you installation was encounter any errors or warnings okay you should resolve them before continuing.
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<u> </u>	If you have any applications that can be run in 5250 then you may test them now. If not, you will need to test everything when the Clients are set up.	

# WIN3, Step 5. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
	1	
Backup and Recovery strategy	You should have a regular backup and recovery stra place for your target syste	tegy in em.
Maintenance strategy	You should devise a strate deploying modifications y make to your VLF applica	egy for ou tions.

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VLF Deployment Check Lists

## Check List/Planning Sheet => WIN4

 Overview
 WIN4, Step 1. Pre-Requisite Actions and Other Considerations
 WIN4, Step 2. Package the Deployment Material on the Source System
 WIN4, Step 3. Move the Deployment Material to the Target System
 WIN4, Step 4. Install the Deployment Material on the Target System
 WIN4, Step 5. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WIN4

#### **Overview**

This check list shows the steps required to deploy the server part of a Framework rich client/server application to a Windows server.

# WIN4, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It	ü
Licensing requirements for the target system	Super Server License	If you need more information, see http://www.lansa.com/support/licens	sing/index

Establish the minimum supported configuration (MSC)	<ul> <li>You need to formally define the minimum configuration your solution will viably support, including:</li> <li>Minimum hardware requirements</li> <li>Minimum software requirements</li> <li>Supported screen resolutions</li> <li>Minimum networking capabilities</li> <li>Maximum data volumes.</li> </ul>	<ul> <li>A formal MSC will:</li> <li>Inform decisions about the overall solution cost</li> <li>Establish the environment required to test the deployment the solution or any patch/hotfix made to it.</li> <li>Raise management's awarenes of the risk in implementing a "si MSC" solution.</li> <li>For more information refer to Application Performance in the Framework Guide.</li> </ul>
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## WIN4, Step 2. Package the Deployment Material on the Source System

Follow these steps when your application is ready to be deployed.

Step	Activity	How to	o Do It
Start the Deployment Tool	Logon to Visual LANSA an the Deployment Tool.	d start	Start Visual LANSA and logon to t partition containing the application be deployed.
			Ensure that you use a user profile which is authorized to the objects that are being deployed.
			From the Tools ribbon, select the Deploy button. The Visual LANSA Deployment Tool's main window open.

Create a Deployment Tool application	Create an application and a package using the Deployment Tool.	Click on the New Application butt on the tool bar or select the New command from the Application r
and package	Use the SRVOTH template.	Fill in the application details.
		Click OK. You are prompted to cre a Package. Fill in the package det and click OK.
		The Package Control Panel is displayed

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Choose Desktop	Choose the Desktop settings depending on your preferences.	For example, you may want to sel these options:
		►

sattings	
 settings	Create Communications
	Administration Shortcut
	Create ODBC Administration
	Shortcut

Decide what	If you want to prompt for a setup	For example, to enable the Prompting
execution	parameter when the package is	of the Target Directory option,
parameters	installed, enable the prompting	double-click the parameter and select
need to be	by selecting the parameter and	the Prompt during SETUP check box
prompted	checking the Prompt during	in the window which is displayed.
	installation option.	
	·	

Add Framework If the end-user will be storing Files User information in DBMS tables VFPPF06/07, you need to include them.	Click Files. Select the files and click OK.	
	If you are using code tables, include the code table data file FPTAB.	

Include your server-based objects	Add your server-based objects, including multilingual text variables, system variables, message files, files, processes, functions and images used in the application.	Click on the Select Repository Objects button on the toolbar. Ensure that all non-LANSA objects have correct installation paths specified for the target machine.
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Include file data	Include data in the files you have selected.	Select all files and click on the Include File Data button.
	Note that you would not normally ship all the development user data in tables VFPPF06/07.	The Data column now indicates the files will be included with their data in the package.
	However, if no one in the target environment can use UF_DESGN, and the Framework is deployed with security switched on, you might ship the user files containing a single administrative user. A profile for that administrator would have to exist already or be created on the target server.	

### WIN4, Step 3. Move the Deployment Material to the Target System

Step	Activity	How to Do It
Move the deployment material to the target system	Copy the msi file (package us.msi) in the package fold (\X_WIN95\X_LANSA\x_app to the required destination CD, network server etc. (Note: Do not copy the ent directory.)	name_v1.0.0_en- ler is\packagename\) media such as ire package

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#### WIN4, Step 4. Install the Deployment Material on the Target System

Step	Activity	How to Do It
Set up the Framework user as a Windows user	You need to set up a valid Windows user and password on the target Windows server which will be used by the client application to sign on to the Framework.	
	If you are using Framework Users and Authority, the same userid and password must also be defined in the Framework.	
	Note that Windows passwords are <b>case</b> <b>sensitive</b> even though Framework passwords are not. You need to remember this when logging on to Framework because your password will be checked by the target Windows server.	
Install the deployment	Install the package by dou clicking the package .MSI	ble- ïle.
material	The setup program autom launches the Framework.	atically When

 

 Material
 The setup program automatically launches the Framework. When the Framework is first launched executable files are copied and the Framework is displayed.

 The application is ready to be used.

 If you encounter problems during the installation, check the MSI\*.log file in the end user's defined %TEMP% folder\_for

<u>_</u>	defined %TEMP% folder, for example: MSI2ce4c.log.	•
	As well as installing the Application, a standard Windows program menu folder will be created for each Application using the Company and Application descriptions as folder names. This means that every Application built with the same Company details and installed on the same PC will be grouped together.	

Apply server license	A server license needs to be applied to the server system.	For more information refer to server licensing in the Deploying Client and Server Applications guide: Server Licensing, Requesting a New License and Installing a License.

Test the server	Test that your server is correctly set up.	Execute a form that connects to the server from a client PC.
		If there are any errors, inspect the x_err.log file on the server.

## WIN4, Step 5. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Backup and Recovery strategy	You should have a regula backup and recovery stra place for your target syst	ar ategy in tem.
strategy	place for your target syst	tem.

Maintenance strategy	You should devise a strategy for deploying modifications you make to your VLF applications.	

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VLF Deployment Check Lists

## Check List/Planning Sheet => WIN-RAMP-TS

Use this check list in conjunction with Check List/Planning Sheet => WIN3 when you are deploying a Windows RAMP-TS client to an IBM i server.

 Overview
 WIN-RAMP-TS, Step 1. Pre-Requisite Actions and Other Considerations
 WIN-RAMP-TS, Step 2. Prepare Your RAMP-TS Screen Definitions for Deployment
 WIN-RAMP-TS, Step 3. Install your RAMP-TS Screen Definitions at the Deployment Target
 WIN-RAMP-TS, Step 4. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WIN-RAMP-TS

#### **Overview**

This check lists shows you how to include your RAMP-TS objects in a deployment package created as per the instructions in Check List/Planning Sheet => WIN3.

## WIN-RAMP-TS, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It	ü
Licensing requirements for the target system	Axes-TS needs to be licensed on the target IBM i server.		

Establish the minimum supported configuration (MSC)	<ul> <li>You need to formally define the minimum configuration your solution will viably support, including:</li> <li>Minimum hardware requirements</li> <li>Minimum software requirements</li> <li>Supported screen resolutions</li> <li>Minimum networking capabilities</li> <li>Maximum data volumes.</li> </ul>	<ul> <li>A formal MSC will:</li> <li>Inform decisions about the overall solution cost</li> <li>Establish the environment required to test the deployment the solution or any patch/hotfix made to it.</li> <li>Raise management's awarenes of the risk in implementing a "si MSC" solution.</li> <li>For more information refer to Application Performance in the Framework Guide.</li> </ul>

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## WIN-RAMP-TS, Step 2. Prepare Your RAMP-TS Screen Definitions for Deployment

In your development environment your RAMP-TS screen definitions are kept in the Axes Screens folder, typically named \aXes\ts\screens. If you used Private Definition Folder(s) to segment your screen definitions, these will appear as sub-folders of the Axes screens folder.

Step	Activity	How to Do It
Check definition files	Check that any example or testing static or dynamic table definitions have been removed from the respective definition files. These would typically be unused in the application now - and may fail if they are deployed to a production environment.	Open the Tables_Static.txt and Tables_Dynamic.txt files in your privat you have one, or the axes\ts\screens f and remove any table definitions that required.
Add aXes files to a save file	Copy these files from your development Axes screens folder and/or any associated private definition to a save file: • application_definition.css	First create a save file using the CRTSA command, and then use the OS/400 sa command to save the files to the save For example this command saves the cthe /axes directory to a save file:
	<ul> <li>(plus application_definition_*.css)</li> <li>application_definition.js</li> <li>Extension_*.js</li> <li>screen_*.js</li> </ul>	SAV DEV('/qsys.lib/savefilelib.lib/RAMPTSF.fi OBJ(('/axes')) This command saves the contents of /a /axesdemo directory:
	<ul> <li>screens.jsn</li> <li>Tables_Static.txt</li> <li>Tables_Dynamic.txt</li> <li>Userenv.js</li> <li>*.xml</li> </ul>	SAV DEV('/qsys.lib/savefilelib.lib/RAMPTSF.fi OBJ(('/axes') ('/axesdemo')) This command saves the required files private folder to a save file:
	Note that some of these files may not exist in your system. Also include the uf_sy420_rts.js	SAV DEV('/QSYS.lib/QGPL.lib/RAMPTSF.file OBJ(('/axes/ts/screens/MyFolder/application_definition_def

	Also include the uf_sy420_rts.js file if your application uses shared scripts. This file is located in the ts/skins folder or your private definition folder. If the application is to be displayed in a language other than English, the modified text	('/Axes/ts/screens/MyFolder/application_definition_js') ('/Axes/ts/screens/MyFolder/Extension_*.js') ('/Axes/ts/screens/MyFolder/screen_*.js') ('/Axes/ts/screens/MyFolder/Tables_*.js') ('/Axes/ts/screens/MyFolder/Tables_*.txt') ('/Axes/ts/screens/MyFolder/Userenv.js') ('/Axes/ts/screens/MyFolder/*.xml') ('/Axes/ts/skins/uf_sy420_rts.js')) TGTRLS(V5R3M0)
	files, Texts_Cust_*.txt also need to be deployed. Files named like N.scn represent a single 5250 screen definition. Normally these files are only used while doing RAMP-TS development and do not need to be deployed to execution/run time target systems. You would only include these files in the deployment package if you want to allow people in the target environment to modify screen definitions.	If you wish to enter this command freehand from the command line, use CALL QCMD. Pressing F11 from within QCMD will provide you with space to enter the SAV command with many objects.
Continue building the server package.	Return to Check List/Planning Sheet => WIN3.	

## WIN-RAMP-TS, Step 3. Install your RAMP-TS Screen Definitions at the Deployment Target

Install Axes- TS on the targetAxes-TS needs to be installed on the target IBM i server.See Install and Configure RAMP-TS/aXes-TS of IBM i Server.Create application folderOn the target system, create an application folder as a subfolder of the \axes\ts\screens folder using the ibm i CRTDIR command.The name of the folder can contain only let the English alphabet or numbers, no blanks For example to create folder MyApplication! \axes\ts\screens\folder: CRTDIR DIR(axes\ts\screens\myApplication1) has *R rights for user *PUBLIC and no other rights.Use the OS/400 WRKLNK command and make sure that folder MyApplication1 has *R rights for user *PUBLIC and no other rights.Use WRKLNK OBJ('axes\ts\screens\ MyApplic then use option 9=Work with authority to d alter the authority to folder MyApplication1 has *R rights for user *PUBLIC and no other rights.The commands execute under the user profile the aXes server is executing under has READ authorisation to any required SQL/database tables.The command sexecute under the user profile for re to the SQL tables required for this purpose. does not need any rights to other data base that may be on the system.Deploy the save file containing the aXes definitionsOn the target system, use the IBM I i RST command to restore the aXes file system, use the IBM I i RST command to restore the aXes file system, use the IBM I i RST command to restore the aXes file system, use the IBM I i RST DEV('(qsys.lib/v11vlfib.lib/ramptsf.file') OBI((//Axes/ts/screens/Myaplication1'))To restore the save file use a command like to was/ts/screens/Myaplication1')	Step	Activity	How to Do It
Create application folderOn the target system, create an application folder as a subfolder of the \axes\ts\screens folder using the ibm i CRTDIR command.The name of the folder can contain only let the English alphabet or numbers, no blanks For example to create folder MyApplication: \axes\ts\screens\folder: CRTDIR DIR('axes\ts\screens\myApplication1')Set authoritiesUse the OS/400 WRKLNK command and make sure that folder MyApplication1 has *R rights for user *PUBLIC and no other rights.Use WRKLNK OBJ('axes\ts\screens\ MyApplic then use option 9=Work with authority to d alter the authority to folder MyApplication1 has *R rights for user *PUBLIC and no other rights.Load tablesSQL commands may be used to load any static or dynamic tables in your application. Check that the user the aXes server is executing under has READ authorisation to any required SQL/database tables.The commands execute under the user profile for re to the SQL tables required for this purpose. does not need any rights to other data base that may be on the system.Deploy the asave file containing the aXes file containing the targetOn the target system, use the IBM i RST DEV(/qsys.lib/v11vflib.lib/ramptsf.file') OBJ(('Axes/ts/screens/MyPolder'*INCLUDE /axes/ts/screens/myapplication1'))	Install Axes- TS on the target computer	Axes-TS needs to be installed on the target IBM i server.	See Install and Configure RAMP-TS/aXes-TS on IBM i Server.
Set authoritiesUse the OS/400 WRKLNK command and make sure that folder MyApplication1 has *R rights for user *PUBLIC and no other rights.Use WRKLNK OBJ('axes\ts\screens\ MyApplic then use option 9=Work with authority to d alter the authority to folder MyApplication1 has *R rights for user *PUBLIC and no other rights.Load tablesSQL commands may be used to load any static or dynamic tables in your 	Create application folder	On the target system, create an application folder as a subfolder of the \axes\ts\screens folder using the ibm i CRTDIR command.	The name of the folder can contain only lette the English alphabet or numbers, no blanks. For example to create folder MyApplication1 \axes\ts\screens\ folder: CRTDIR DIR('axes\ts\screens\myapplication1')
Load tablesSQL commands may be used to load any static or dynamic tables in your application.The commands execute under the user profile the aXes server is executing under.Check that the user the aXes server is executing under has READ authorisation to any required SQL/database tables.The commands execute under the user profile for re to the SQL tables required for this purpose. does not need any rights to other data base that may be on the system.Deploy the save file containing the aXes definitionsOn the target system, use the IBM i RST command to restore the aXes files into the target system command to restore the aXes files 	Set authorities	Use the OS/400 WRKLNK command and make sure that folder MyApplication1 has *R rights for user *PUBLIC and no other rights.	Use WRKLNK OBJ('axes\ts\screens\ MyApplica then use option 9=Work with authority to dis alter the authority to folder MyApplication1.
Deploy the save file on the target system, use the IBM i containing the aXes definitions into the target system into the target system are spalication of the target system into the target system are spalication of the target system are spalicating to the target system are spalication of the target system a	Load tables	SQL commands may be used to load any static or dynamic tables in your application. Check that the user the aXes server is executing under has READ authorisation to any required SQL/database tables.	The commands execute under the user profile the aXes server is executing under. You should authorise that user profile for read to the SQL tables required for this purpose. T does not need any rights to other data base t that may be on the system.
	Deploy the save file containing the aXes definitions	On the target system, use the IBM i RST command to restore the aXes files into the target	To restore the save file use a command like th RST DEV('/qsys.lib/v11vlflib.lib/ramptsf.file') OBJ(('/Axes/ts/screens/MyFolder' *INCLUDE '/axes/ts/screens/myapplication1'))

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4	to the	system's application	
	target system	folder. Warning: The restored screens.jsn file(s) contains all your RAMP-TS screen definitions. If someone on the target system starts Axes as a developer/designer and attempts to identify a screen and	<ul> <li>The DEV parameter specifies the name and path of the save file.</li> <li>The OBJ parameter specifies:</li> <li>First the folder from which the files were saved from</li> <li>*INCLUDE the objects that match the object name pattern</li> <li>Lastly the folder on the target system to which the files are to be restored.</li> </ul>
		save the definition, they will cause the screens.jsn file to be (re)published. This will effectively remove all the screen definitions from it except for the new screen they have just defined. In this case you would need to restore the screens.jsn file(s) again.	
		Note that aXes eXtensions that are to be used by all applications on this system should be placed in the axes/ts/screens folder of the target system, not to individual application folders.	
		If the same aXes eXtension exists in the screens folder and the application folder, the eXtension in the application folder should take precedence but can not be guaranteed so you should check whick version is being used.	
	Verify IE settings	Verify IE settings on every PC from which	lf these settings are not correct, you will get an error like this:

# WIN-RAMP-TS, Step 4. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Updating changes to 5250 screen definitions	When you add new 5250 screens to your RAMP application or modify the features of an existing screen, these changes are reflected in the screens.jsn file(s) which you will need to redeploy.	Completely or selectively repeat the appropriate steps in this guide.
Backup and Recovery strategy	You should have a regular backup and recovery strat place for your target syste	egy in m.
Maintenance strategy	You should devise a strate deploying modifications you make to your VLF applicat	egy for ou cions

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VLF Deployment Check Lists

## Check List/Planning Sheet => WIN-RAMP-NL

Use this check list in conjunction with Check List/Planning Sheet => WIN2 when you are deploying a Windows RAMP-NL client to an IBM i server (check list WIN3).

 Overview
 WIN-RAMP-NL, Step 1. Pre-Requisite Actions and Other Considerations
 WIN-RAMP-NL, Step 2. Add RAMP-NL Objects to the Deployment Package
 WIN-RAMP-NL, Step 3. Install the Deployment Material on the Target System
 WIN-RAMP-NL, Step 4. Post-Requisite Actions and Other Considerations

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VLF Deployment Check Lists > Check List/Planning Sheet => WIN-RAMP-NL

### **Overview**

This check lists shows you how to include your RAMP-NL objects in a Windows client package created as per the instructions in Check List/Planning Sheet => WIN2.

## WIN-RAMP-NL, Step 1. Pre-Requisite Actions and Other Considerations

Step	Activity	How to Do It	ü	Ĺ
Licensing requirements for the target system	Newlook liteclient lic to be applied to the application server. N required on the clien	ense needs IBM i lo license is t system.		
Establish the minimum supported configuration (MSC)	<ul> <li>You need to formally minimum configurati solution will viably suincluding:</li> <li>Minimum hardwarequirements</li> <li>Minimum softwarequirements</li> <li>Supported screeresolutions</li> <li>Minimum networcapabilities</li> <li>Maximum data wareadata waread</li></ul>	define the A fo on your upport, • are r re t n f rking For App volumes. Frar	rmal MSC will: Inform decisions about overall solution cost Establish the environme required to test the deple the solution or any patch made to it. Raise management's av of the risk in implementi MSC" solution. more information refer t lication Performance in to nework Guide.	the oyment n/hotfix warenes ng a "si o the

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## WIN-RAMP-NL, Step 2. Add RAMP-NL Objects to the Deployment Package

Perform these steps to include RAMP-NL objects in the client package created as per the instructions in check list WIN2.

Step	Activity	How to Do It
Include RAMP- NL non-LANSA objects	<ul> <li>Include these objects from the partition execute directory of the RAMP-NL development PC:</li> <li>VF_SY001_Nodes_XML</li> <li>VF_SY001_Nodes_*.JS (there will be one file for every application session)</li> <li>VF_SY120.JS</li> <li>VF_SY120.HTM</li> <li>UF_SY120.JS</li> </ul>	Bring up the Other Objects tab. Double-click Non-LANSA Objects to bro for the objects. Locate and select the objects and click
Include newlook customization files	<ul> <li>Also, include these objects from the newlook program directory (usually Program Files/looksoftware 8.0) as Non-LANSA objects:</li> <li>Newlook.SID</li> <li>Newlook.INI</li> <li>VF_XP*.nlg file(s)</li> <li>Any other custom files specific to you NewLook configuration (for example, images that you have added)</li> </ul>	Bring up the Other Objects tab. Double-click Non-LANSA Objects to bro for the objects. Locate and select the objects and click
Include the NL80.exe object or include newlook program files in	You have the option of including NL80.exe file to be able to manually install newlook on the target PCs, or you can include newlook program files in the package so that newlook is installed	Locate the NI80.exe newlook installation application and include it as a Non-LAN object. If you do not already have a copy of the you may download it from the Look Software web site. Or

<b>_</b>	program files in the RAMP-NL package	newlook is installed automatically with the package.	Or Package newlook with RAMP-NL.
		If you install newlook manually using the offical newlook installation program NL80.exe, your deployment will require less testing, but you will have to perform two distinct installations on every PC.	
	Continue packaging the deployment materials	Continue with the steps in WIN2, Step 2. Package the Deployment Material on the Source System.	

## Package newlook with RAMP-NL

VLF Deployment Check Lists > Check List/Planning Sheet => WIN-RAMP-NL > WIN-RAMP-NL, Step 2. Add RAMP-NL Objects to the Deployment Package 

## Package newlook with RAMP-NL

This section describes how to package newlook application files in the RAMP-NL package.

Step	Activity	How to Do It
Ensure newlook is installed and configured correctly on the PC on which you will build the package	Make sure you have newlook 8 installed on the PC where you are going to build the deployment package. Ensure this is the version you want to deploy to your users' PCs.	
Download the newlook Auto Configuration Program	This program will silently register the newlook ActiveX components and create the required newlook registry keys on the target PC.	Download it into your newlook directory (C:\F 8.0) from: http://chiweb.lansa.com/public/newlook/Supp
Add newlook objects	Add all of the files from the root of your newlook directory (usually C:\Program Files\looksoftware 8.0) to the list of Non-LANSA Objects within your package. Also add all of the files from the newlook Tables directory (C:\Program Files\looksoftware 8.0\Tables). Do not include objects from any other newlook subdirectories.	Click on the Objects button from the Deployn Then double-click on Non-LANSA Objects on the the looksoftware 8.0 directory and select all the Repeat the steps to include all the files in the directory. If you have added other files to the looksoftw specific to your RAMP-NL application, add the your users will be using printer emulation see from the Printers directory.

			•
Set the	Specify the directory	Highlight all of the files that have	been included from the looks
installation	to which to install the	root directory, then click the Set t	he Install Path button on the
paurior			

Use cross-references with	M X 18		
programs to simplify other object Technology Servic Technology Servic Templates Fields Fields Fields Message Files Multimoual Vaniable	Installation Path Ic DFTPATH Se DFTPATH DFTPATH DFTPATH DFTPATH DFTPATH DFTPATH	Non-LANSA Object     the install path     es/looksoftware 8.0\User.sid     C:\Program Files\looksoftware 8.0\Usingcentric.chm     C:\Program Files\looksoftware 8.0\Usingcentric.chm     C:\Program Files\looksoftware 8.0\VF_XP.nlg     C:\Program Files\looksoftware 8.0\Write_ba.nlg     C:\Program Files\looksoftware 8.0\Write_sc.nlh	
Non-LANSA Objec Messages System Variables Objects from Task( Web Composite	DFTPATH     DFTPATH     DFTPATH     DFTPATH     DFTPATH     DFTPATH     DFTPATH     DFTPATH     DFTPATH	C:VProgram FilesVooksoftware 8.0\TablesVE4371U.NLX C:VProgram FilesVooksoftware 8.0\TablesVE37U.NLX C:VProgram FilesVooksoftware 8.0\TablesVE197U.NLX C:VProgram FilesVooksoftware 8.0\TablesVE256U.NLX C:VProgram FilesVooksoftware 8.0\TablesVE27U.NLX	
		<u>QK</u> <u>Cancel</u>	

Now click the Define a new installation path button on the tool

📥 Installation Path Definitions	×
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Installation Path Id Installation Path	
DOPENDE A DEVIDENT DE LE CUTE PARTSOURCE *PART_DIR_SOURCE SYSEXECUTE *SYS_DIR_EXECUTE	
Select path	,
	.::

Set the Installation Path ID field to NLROOT. Set the to C:\Program Files\Application Name\newlook, then click OK.

Other Path Maintenance	,	$\mathbf{X}$
Installation Path Id	NLROOT	
Installation Path	c:\Program Files\EOAPP\newlook	~
	<u>D</u> K <u>C</u> ancel	

Highlight the NLROOT Path ID, then click the Select Path

🔺 Installation Path Definitions		
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Installation P	Path Id Installation Path	
DFTPATH NLROOT SYSPATH	*PART_DIR_EXECUTE c:\Program Files\EOAPP\newlook *SYS_DIR_EXECUTE	
	Select path Close	

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newlook

program files

target PC.

For example: C:\Program Files\Application Name\newlook directory

## WIN-RAMP-NL, Step 3. Install the Deployment Material on the Target System

If you have included all newlook program files in the package (see <u>Package newlook with RAMP-NL</u>), newlook and RAMP-NL will be automatically installed.

If you want to install newlook manually, follow these steps:

## Warning: Do not test your deployment package on your development system.

Step	Activity	How to Do It
Verify Newlook is installed	If newlook is not already installed on the workstation, locate the nl80.exe which will now be located in the partition execute directory (for example, X_WIN95/X_LANSA/X_DEM/EXECUTE/) Run this application to install newlook.	
Copy RAMP- NL files to the Newlook directory	When newlook is installed, copy the following files from the partition execute directory to the newlook directory (this will be Program Files/looksoftware 8.0 directory if you accepted the default settings):	
	<ul> <li>Newlook.SID</li> <li>Newlook.INI</li> <li>VF_XP*.nlg file(s)</li> </ul>	

Note: Ensure that the signon screen on the target IBM i server matches the signon screen on the development system. If you have used the username and password fields to identify the screen, they are usually in the same position on the screen. If they are not, you will need to define a

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on the screen. If they are not, you will need to define a newlook screen override for the signon screen on the target system.

# WIN-RAMP-NL, Step 4. Post-Requisite Actions and Other Considerations

Step	Activity	How to Do It
Backup and Recovery strategy	You should have a regular backup and recovery strat place for your target syste	egy in em.
Maintenance strategy	You should devise a strate deploying modifications y make to your VLF applica	egy for ou tions

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