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Workspace Desktop Edition Deployment Guide

Deploying The ClickOnce Application On Your Web Server

12/19/2025

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Use the Interaction Workspace Deployment Manager wizard to generate the file hierarchy that is required by the ClickOnce application on your web server. During the deployment of the ClickOnce application, you are required to enter the following information in the Deployment Manager:

- The deployment URL
- The deployment version
- The deployment certificate:
 - If you do have a deployment certificate, select the Sign with a provided certificate option, and then browse to select the certificate. You must also input the password in the dedicated text box.
 - If you do not have a deployment certificate, do not select the Sign with a provided certificate option. Without a signed package, a security warning is displayed whenever the client downloads the package.

Be sure to have this information ready before you begin. [Procedure: Deploying the Interaction Workspace downloadable ClickOnce package on your web server](#) contains the deployment steps for deploying Interaction Workspace on your web server.

 **Note:** You can put the Interaction Workspace downloadable package in a shared directory instead of on your web server, and then install Interaction Workspace from a shared directory.

Procedure: Deploying the Interaction Workspace downloadable ClickOnce package on your web server

Purpose: Deploy the Interaction Workspace downloadable package on your web server by using the Interaction Workspace Deployment Manager Wizard

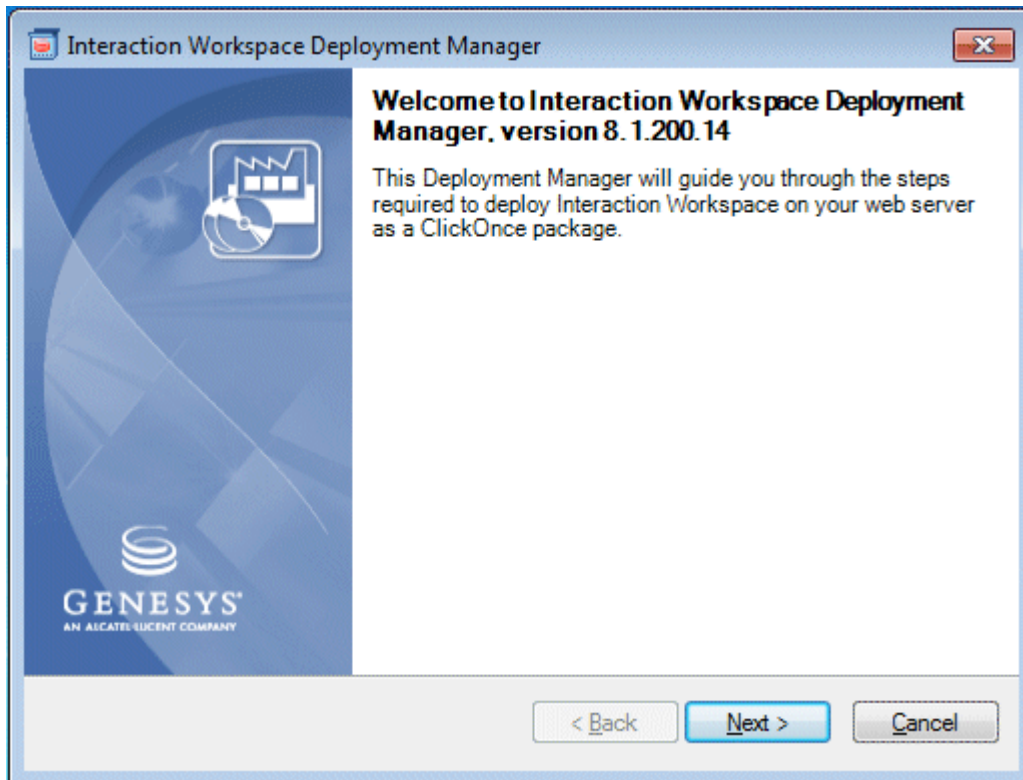
 **Note:** The following procedure employs a Windows-based Deployment Wizard. If your HTTP server is running on a Solaris or Linux server, you must first build the deployment package on a computer that is running the Windows Operating System, and then copy the package to a compatible location on your Solaris or Linux HTTP server.

Prerequisites

- Install the Deployment Manager and associated files from the Genesys Interaction Workspace disc or download image. See [Procedure: Installing Interaction Workspace Deployment Package on the Windows operating system](#).
- Create an Application object of type Interaction Workspace from the Interaction Workspace Application template.
- Microsoft .NET Framework 2.0 installed on the computer on which you run the wizard. This can be the computer on which you run your web server.

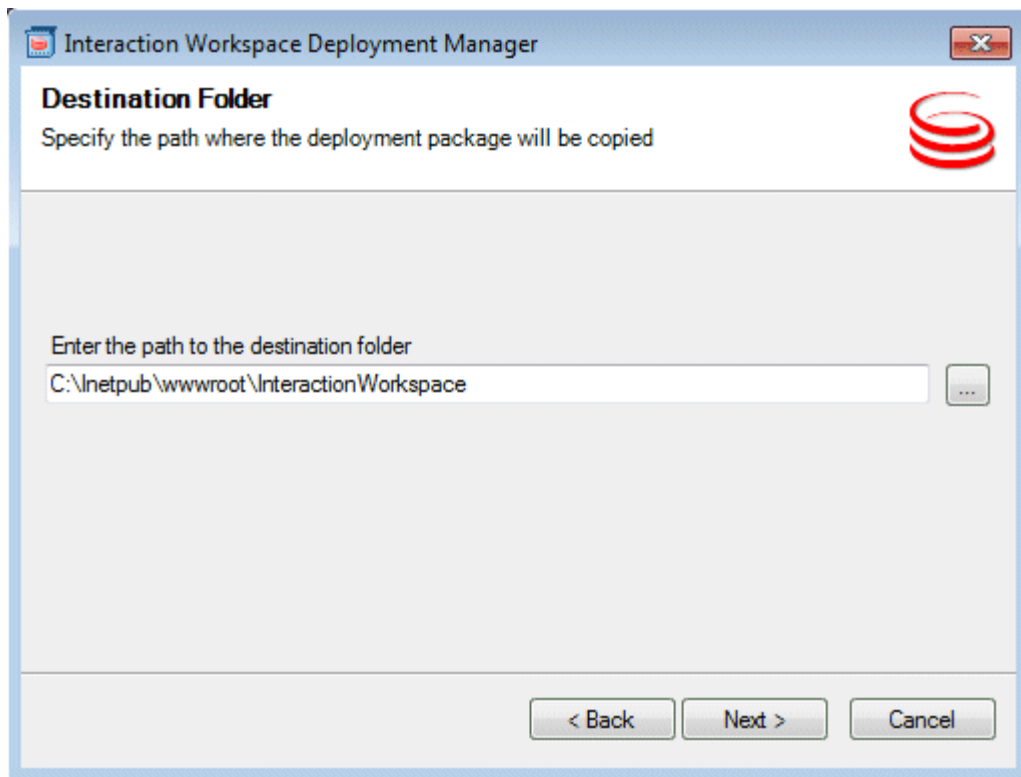
Start

1. Open the InteractionWorkspaceDeploymentManager folder. This folder contains the application files required for deployment, including: InteractionWorkspaceDesktop.exe.
2. Launch the InteractionWorkspaceDeploymentManager.exe application by double-clicking the file or selecting it from the Start menu. The Deployment Manager installs the ClickOnce files on your web server. The Welcome pane of the Deployment Manager is displayed (refer to Figure - **The Interaction Workspace Deployment Manager splash page**).



The Interaction Workspace Deployment Manager splash page

3. Click Next to proceed with the installation. Click Cancel to cancel the deployment.
4. If you clicked Next, the Deployment Folder pane is displayed (refer to Figure - **Interaction Workspace Deployment Manager Deployment Folder pane**). Specify the location on your server in which you want the ClickOnce files to be deployed. If you are deploying to a Solaris server or a Linux server, specify a local folder on the Windows-based computer on which you are running the Deployment Wizard. From this location, you will build the deployment package that you must manually copy to your Solaris or Linux HTTP server.



Interaction Workspace Deployment Manager Deployment Folder pane

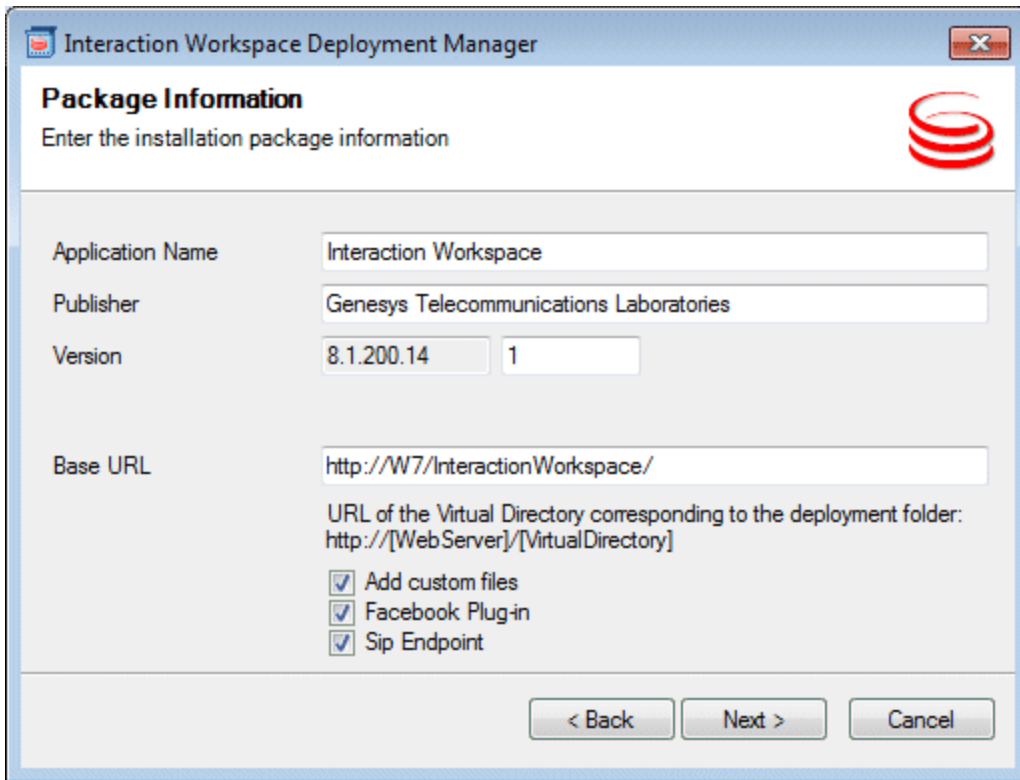
5. Click Next to proceed with the installation. Click Cancel to cancel the deployment. Click Back to return to the previous panel.
6. If you clicked Next, the Package Information pane is displayed (refer to Figure - **Interaction Workspace Deployment Manager Package Information pane**). This pane is filled-in automatically. Modify these parameters only if necessary.

You can change the application name, the publisher (which is displayed in the publish.htm page), and the base URL, which is the URL that corresponds with the virtual directory that is linked to the deployment folder.

There are one or more optional check boxes that you can use to add plug-ins to the Interaction Workspace application:

- Add custom files -- Select to add custom content such as simple data files, including rebranding icons or sound files, or file assemblies that implement your Interaction Workspace Customization API.
- <plug-in name> -- Select this option to use your installed plug-in, such as Interaction Workspace SIP Endpoint, Social Engagement plug-in, Localization Packs, and so on.

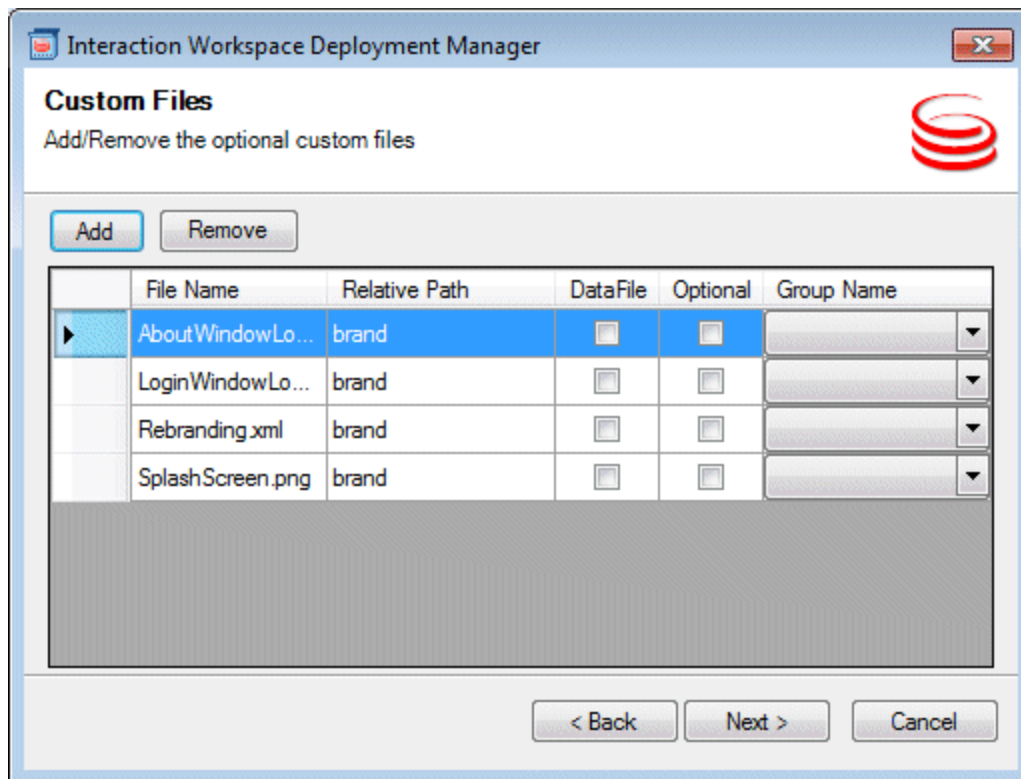
Click Next to proceed with the installation. Click Cancel to cancel the deployment. Click Back to return to the previous panel.



The screenshot shows a Windows-style dialog box titled "Interaction Workspace Deployment Manager". Inside, there's a section titled "Package Information" with the instruction "Enter the installation package information". A red spiral logo is in the top right corner. The form contains several input fields: "Application Name" with the value "Interaction Workspace", "Publisher" with "Genesys Telecommunications Laboratories", "Version" with "8.1.200.14" and a small box containing "1", and "Base URL" with "http://W7/InteractionWorkspace/". Below the Base URL field, there's a note: "URL of the Virtual Directory corresponding to the deployment folder: http://[WebServer]/[VirtualDirectory]". Three checkboxes are present, all of which are checked: "Add custom files", "Facebook Plug-in", and "Sip Endpoint". At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

Interaction Workspace Deployment Manager Package Information pane

- If you clicked Next, and if you selected Add Custom Files in the previous view, the Custom Files panel is displayed (refer to Figure - **Interaction Workspace Deployment Manager Custom Files pane**). This window enables you to add custom content to the out-of-the-box Interaction Workspace.



Interaction Workspace Deployment Manager Custom Files pane

- **Relative Path:** The path where the file will be copied relative to the core Workspace installation directory.
- **Data File:** Not used — This should be left unchecked.
- **Optional:** *Must* be checked if the file is part of an optional module that is loaded according to user privileges. A module is considered as optional if the value of the `startupLoaded` attribute is set to `false` in the `.module.config` file, and the same module is associated to a task in the same file.

Important

The `.module.config` file that core Workspace uses for module declaration, as well as any language dictionary file required by the module, must be specified as NOT optional so that they are loaded unconditionally at Workspace start-up.

- **Group Name:** For mandatory files (files that have `Optional` unchecked), always specify `Core`. For optional files, specify the group name that is assigned to the module description in the `.module.config` file by the `clickOnceGroupsToDownload` attribute. For example:

```
<task name="InteractionWorkspace.Custom.ThePrivilege"
clickOnceGroupsToDownload="TheGroup"
modulesToLoad="TheModule" />
```

The following table provides examples of settings for a typical optional module comprising a DLL, a dictionary file, and a `.module.config` file:

File Name	Relative Path	Data File	Optional	Group Name
.module-config file	<empty>	unchecked	unchecked	Core
.dll file	<empty>	unchecked	checked	<custom group>
language file (.language- code.country- code.xml)	languages	unchecked	unchecked	Core

- Click Next to proceed with the installation. Click Cancel to cancel the deployment. Click Back to return to the previous panel.
- If you clicked Next, the Client Configuration pane is displayed (refer to Figure - **Interaction Workspace Deployment Manager Client Configuration pane**). In this pane, provide the following information:
 - The address and port number of your local Genesys Configuration Server
 - The name of the Interaction Workspace (client) application that you created in the Configuration Layer by using Genesys Administrator

Enabling Client-side Port Definition

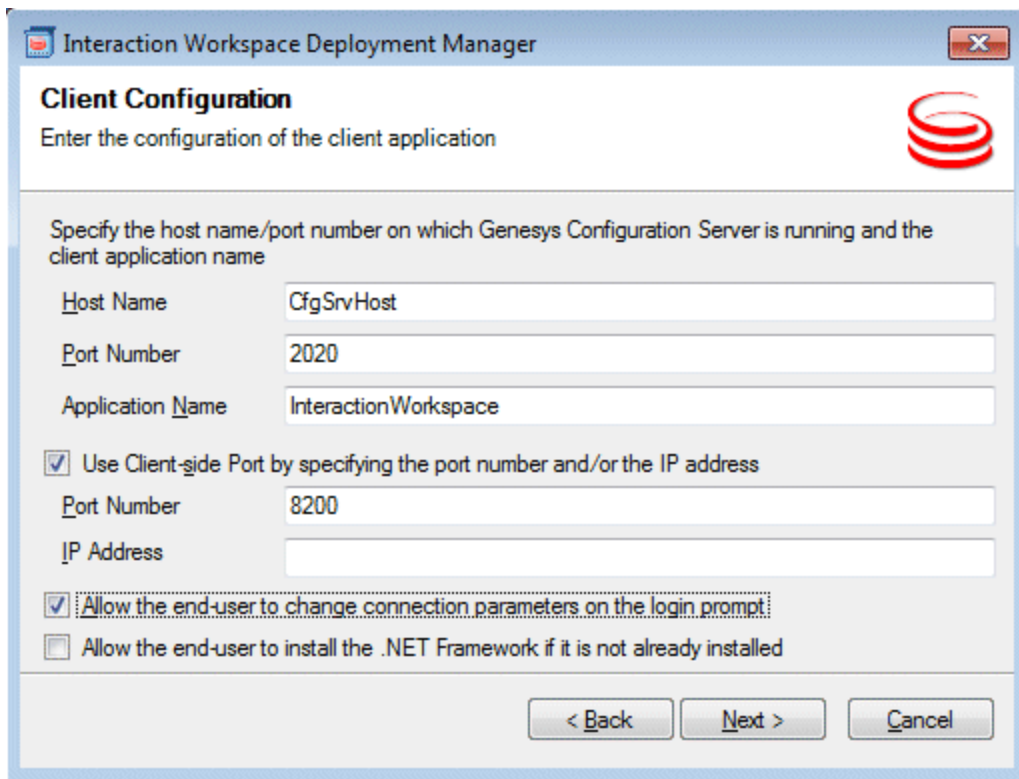
To define the client-side port functionality, check Use Client-side Port by specifying the port number and/or the IP address. Checking this option enables the following two text fields:

- Port Number -- The port number that a client will use to make a TCP/IP connection to Configuration Server. If the value is empty, this parameter is not used.
- IP Address -- The IP address or the host name that a client will use to make a TCP/IP connection to Configuration Server. If the value is empty, this parameter is not used.

If you specify one or both values, they will be set in the InteractionWorkspace.exe.config file.

There are two additional options in this dialog box:

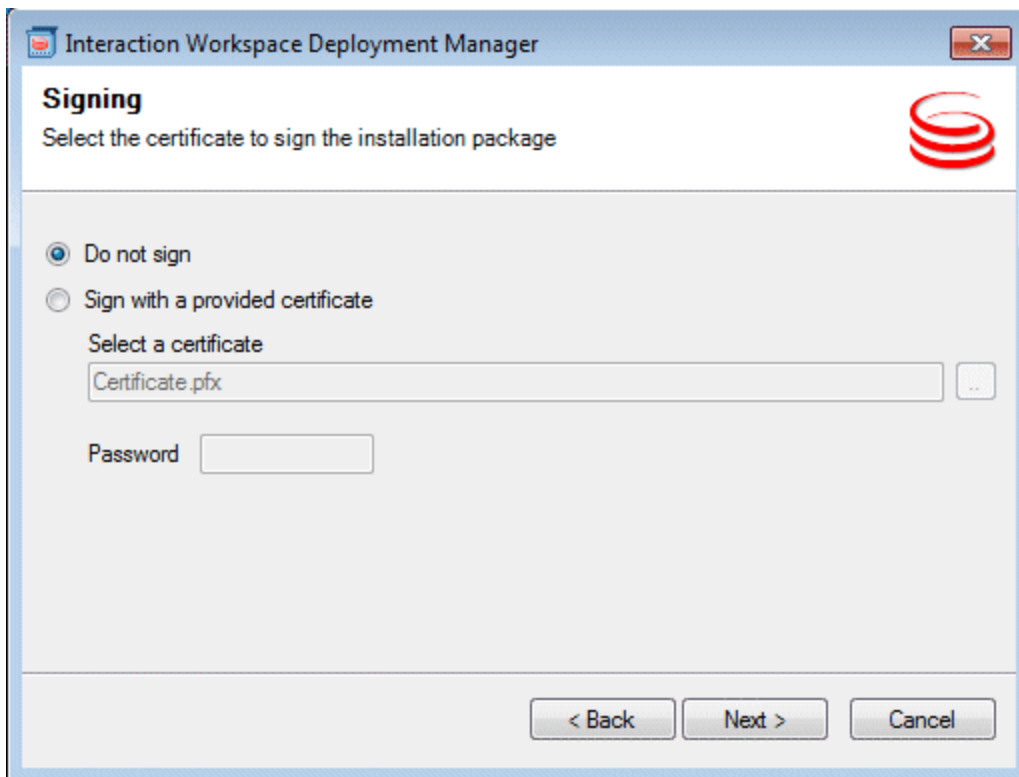
- Allow the end-user to change connection parameters on the login prompt -- Enables agents to change their connection parameters when they log in.
- Allow the end-user to install the .NET Framework if it is not already installed -- Enables an agent to download and install .NET Framework to their workstation if you have not already installed it on the workstation.



The screenshot shows the 'Interaction Workspace Deployment Manager' window with the 'Client Configuration' tab selected. The window title is 'Interaction Workspace Deployment Manager'. Below the title bar, the text 'Client Configuration' is displayed, followed by the instruction 'Enter the configuration of the client application'. A red circular logo is visible in the top right corner. The main area contains several input fields and checkboxes. The 'Host Name' field is set to 'CfgSrvHost', the 'Port Number' field is set to '2020', and the 'Application Name' field is set to 'InteractionWorkspace'. There are two checkboxes: 'Use Client-side Port by specifying the port number and/or the IP address' (checked) and 'Allow the end-user to change connection parameters on the login prompt' (checked). Below these, there are two more input fields: 'Port Number' (set to '8200') and 'IP Address' (empty). At the bottom, there is a checkbox 'Allow the end-user to install the .NET Framework if it is not already installed' (unchecked). At the very bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

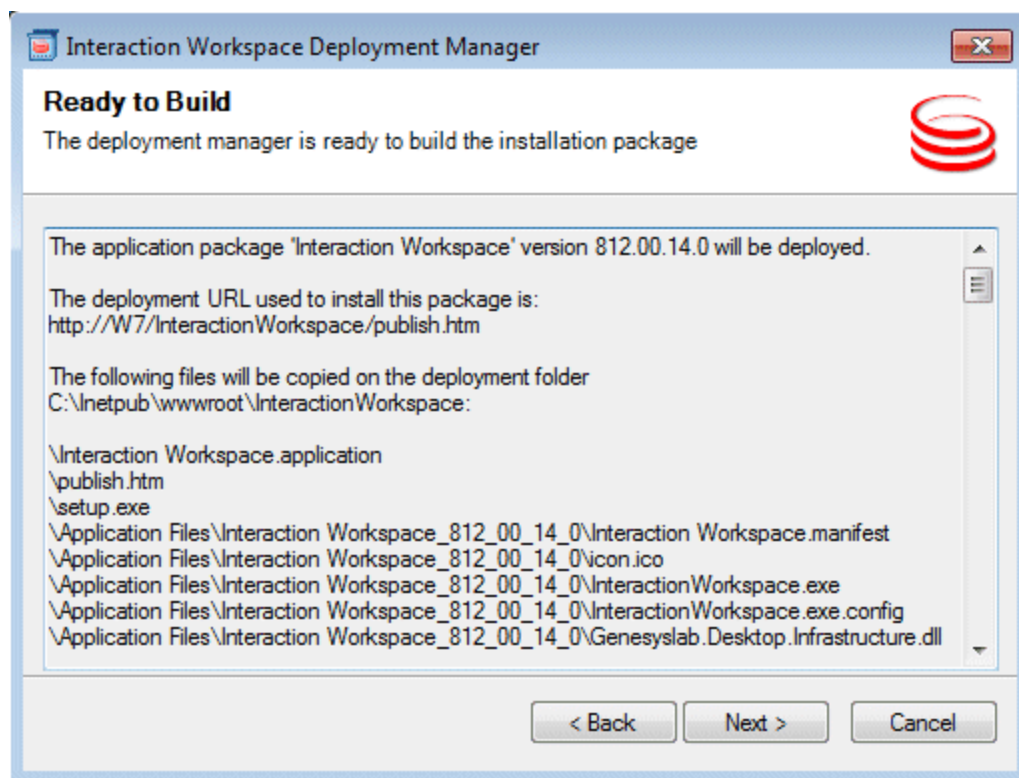
Interaction Workspace Deployment Manager Client Configuration pane

- Click Next to proceed with the installation. Click Cancel to cancel the deployment. Click Back to return to the previous panel.
- If you clicked Next, the Signing pane is displayed (refer to Figure - **Interaction Workspace Deployment Manager Signing pane**). For more information on how to create or obtain a signing certificate, refer to the "ClickOnce Deployment and Authenticode" page on the Microsoft Developer Network web site: <http://msdn.microsoft.com/en-us/library/ms172240.aspx>



Interaction Workspace Deployment Manager Signing pane

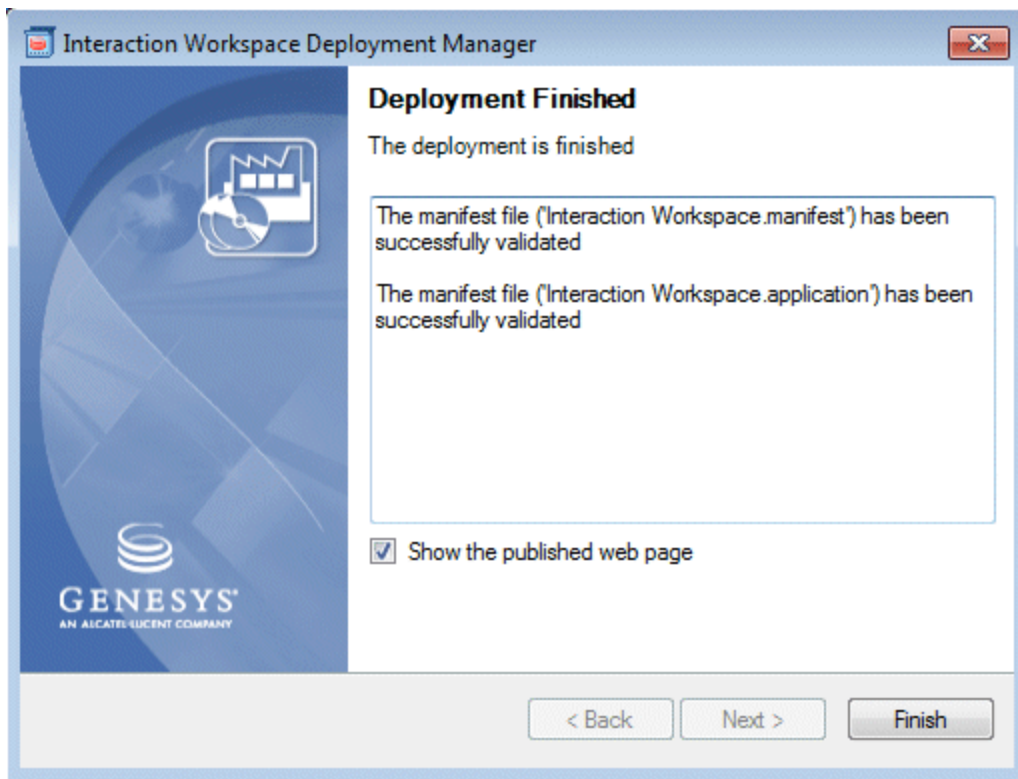
- Choose the type of signing certificate that you are using:
 - Click **Do not Sign**. If you do not provide a certificate, a security warning is displayed whenever the client downloads the package.
 - Click **Sign with a provided certificate** to enable the **Select a certificate** field.
- Click the browse button to navigate to the certificate.
- Enter the password for the certificate in the Password field.
- Click **Next** to proceed with the installation. Click **Cancel** to cancel the deployment. Click **Back** to return to the previous panel.
- If you clicked **Next**, the **Ready to Build** pane is displayed (refer to Figure - **Interaction Workspace Deployment Manager Ready to Build pane**). This pane contains a summary of the files that will be deployed on your web server and a confirmation of the deployment URL.



Interaction Workspace Deployment Manager Ready to Build pane

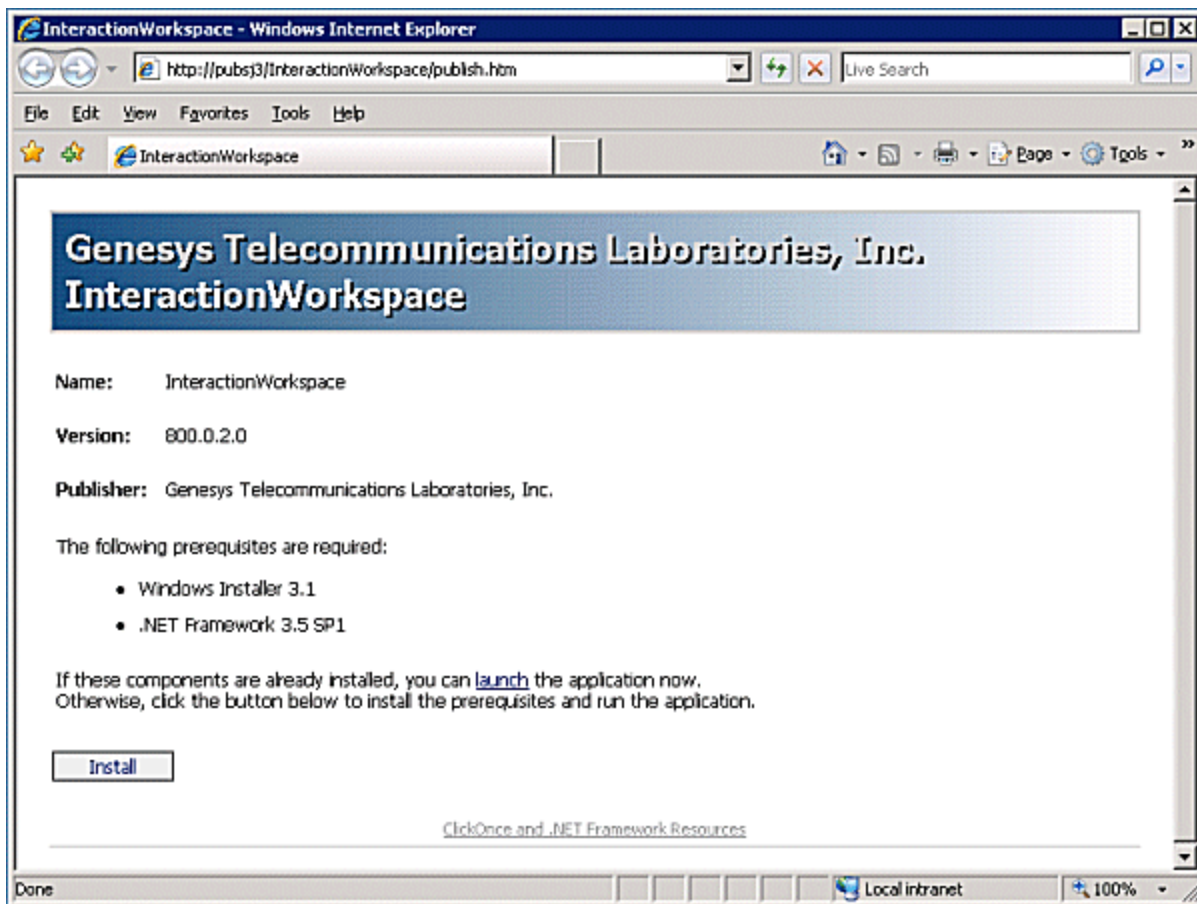
- Click Next to complete the deployment. Click Cancel to cancel the deployment. Click Back to modify any of the previous panes.
- If you clicked Next, the Deployment Manager will deploy the Interaction Workspace ClickOnce application in the path that you specified at the beginning of the wizard execution. This can be the appropriate place on your web server.

When the deployment is complete, the Deployment Finished pane is displayed (refer to Figure - **Interaction Workspace Deployment Manager Deployment Finished pane**). This pane contains messages that relate to the success of the deployment.



Interaction Workspace Deployment Manager Deployment Finished pane

- Click Finish to close the Interaction Workspace Deployment Manager. Deployment proceeds. When deployment is complete, the publish.htm web page is opened in your default browser automatically (refer to Figure - **Interaction Workspace publish.htm web page viewed through Microsoft Internet Explorer**).



Interaction Workspace publish.htm web page viewed through Microsoft Internet Explorer

The publish.htm web page confirms that the Interaction Workspace package is published and provides you with the version number. If you have not installed the prerequisites, the page contains a link to the prerequisite installers.

- If you are deploying on a Solaris or Linux HTTP server, copy the collection of files that was created by the Deployment Wizard on your Windows-based computer to your HTTP server.

End

Next Steps

- If you have not installed the prerequisites, in the publish.htm web page, click Install to launch setup.exe to install the prerequisite installers.
- If you already have installed the prerequisites, the application bootstrap either installs a new version automatically, upgrades your existing version, if necessary, or starts the application, if it is installed and up to date.

Procedure: Configuring Apache to enable the ClickOnce package

Purpose: By default, the Apache web server does not permit the download of documents of specific MIME types. Apache must be configured to enable the ClickOnce package. **Prerequisites**

- Windows Server 2003 or Windows Server 2008 server or Solaris Server or RHEL (Linux) server
- Apache Server 2.2

Start

1. In the `conf/mime.types` file (in the Apache install folder), add the following lines:
 `application/x-ms-application application`
 `application/x-ms-application manifest`
 `application/octet-stream deploy`
2. Save the file.

End

Next Steps

- [Procedure: Configuration verification--Testing the client](#)

Procedure: Configuring Microsoft IIS6 to enable the ClickOnce package

Purpose: By default, the Microsoft IIS6 web server on Windows 2003 does not permit the downloading of documents of specific MIME types. IIS6 must be configured to enable the ClickOnce package. **Prerequisites**

- Windows Server 2003
- Microsoft IIS6

Start

1. From Administrative Tools, start Internet Information Services Manager.
2. Right click the tree leaf that represents your server.
3. Select Properties from the contextual menu.
4. In the Properties dialog box, click Mime Types.
5. Click New to add each of the following configuration pairs:
 `.application => application/x-ms-application`
 `.manifest => application/x-ms-application`
 `.deploy => application/octet-stream`
6. Click OK.
7. Click OK to validate the new MIME types list.

End

Next Steps

- **Procedure: Configuration verification: Testing the client**

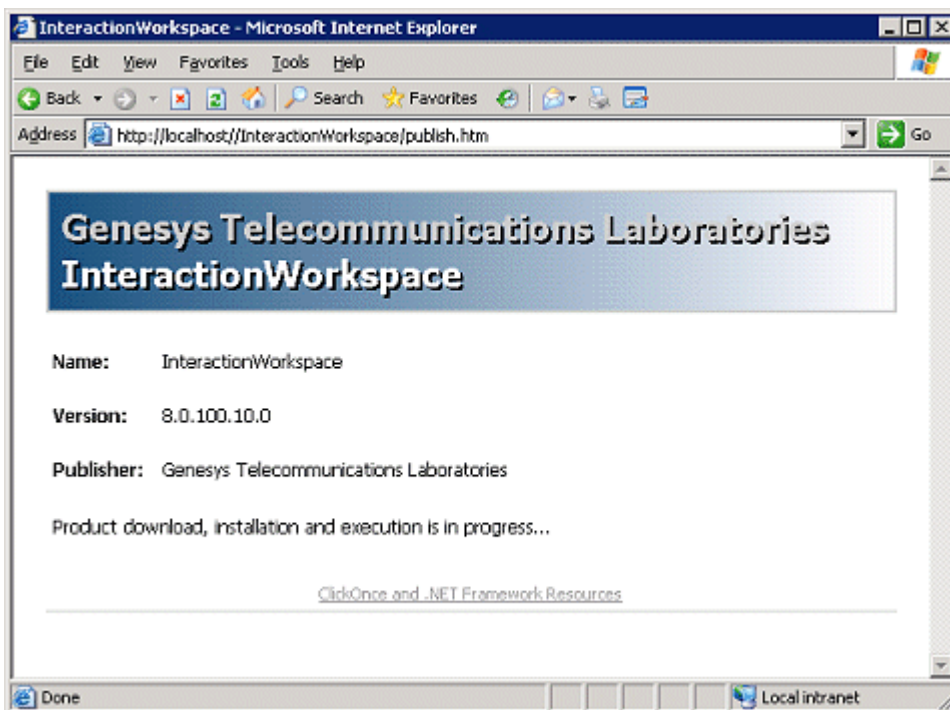
Procedure: Configuration verification: Testing the client

Purpose: To ensure that the Interaction Workspace application was correctly deployed on your web server and client workstation. **Prerequisites**

- **Procedure: Deploying the Interaction Workspace downloadable ClickOnce package on your web server**
- **Procedure: Configuring Apache to enable the ClickOnce package**

Start

1. On a client workstation, open a new Internet browser window.
2. In the Address field, enter the URL of the Interaction Workspace web application:
`http://<host>/<application name>/publish.htm`
For example:
`http://SUITE80/InteractionWorkspace/publish.htm`
3. Press Enter on your keyboard. The Interaction Workspace ClickOnce publish window opens (see the Figure - Interaction Workspace publish window).



Interaction Workspace publish window

4. If all prerequisites are installed, setup is started automatically. If all prerequisites are not installed, a warning is displayed with the list of missing prerequisites. Click Install to install the Interaction Workspace application prerequisites.
5. If a security-warning dialog box appears, click Install.
When installation is complete, a shortcut is placed on the desktop, after which the application launches. The Interaction Workspace agent-login window is displayed.

6. Enter the following information into the agent-login panel and the connection-parameters panel:

- User Name -- A valid user name that is configured in the Configuration Layer
- Password -- The valid password for the specified user name
- Click Login to continue logging in to Interaction Workspace; click Cancel to close the agent-login window without logging in.
Refer to [Interaction Workspace User's Guide](#) for more information on how to log in to Interaction Workspace and use the application.

End

Next Steps

- Installation is complete. You can now provision Interaction Workspace functionality:
 - [Interaction Workspace Functionality Overview](#)
 - [Provisioning Interaction Workspace](#)