



# Infor Storefront Integration Layer Implementation Guide for Infor Distribution A+

Storefront Version 2.0.502

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## About this guide

Welcome to the Infor Storefront Integration Layer Implementation Guide for Infor Distribution A+.

This guide is designed to lead the system administrator through the installation and setup of the integration components that enable Infor Storefront and Infor Distribution A+ to work as integrated applications.

## Intended audience

This guide is intended for system administrators who implement the integration between Infor Distribution A+ and Infor Storefront. The installer should be familiar with the IBM i operating system, the Integrated File System (IFS), and be able to sign on as QPGMR. The installer should also be familiar with the Windows operating system and SQL Server.

## Organization

This table shows the chapters of the guide:

Section	Description
Chapter 1 Installation Overview	Provides an overview of the installation process of Infor Storefront
Chapter 2 Install Commerce Gateway	Directs you to the installation instructions for the Commerce Gateway, which is a required component of your Infor Storefront installation
Chapter 3 Install the Infor Storefront Integration Layer for Infor Distribution A+	Explains how to install the Infor Storefront Integration Layer, which is another required component of your Infor Storefront installation

Section	Description
Chapter 4 Configure the Infor Storefront Integration Layer for Infor Distribution A+ in Tomcat	Outlines the steps required to configure the Infor Storefront Integration Layer for Infor Distribution A+
Chapter 5 Install/Update Infor Distribution A+ for Infor Storefront Update Pack	Explains how to install/update the Infor Distribution A+ for Infor Storefront Update Pack, if applicable
Chapter 6 Configure the Infor Storefront Properties File	Explains how to modify the Infor Storefront properties file, if applicable
Chapter 7 Define Infor Storefront Options in Infor Distribution A+	Outlines the setup options that need to be defined in Infor Distribution A+ to enable the integration with Infor Storefront
Chapter 8 Test the Infor Storefront to Infor Distribution A+ Integration	Outlines the steps to test the integration of Infor Storefront with Infor Distribution A+
Chapter 9 Uninstall Infor Storefront Integration to Infor Distribution A+	Explains the steps needed to uninstall the Infor Storefront Integration to Infor Distribution A+
Chapter 10 Install/Update Infor Distribution A+ for Infor Storefront Update Pack Source	Explains how to install/update the Infor Distribution A+ for Infor Storefront Update Pack Source
Appendix A Custom Installation of Infor Storefront Update Pack	Explains the steps necessary to perform a custom installation of the Infor Storefront Update Pack, if applicable
Appendix B Installing Multiple Instances of the Infor Storefront Integration Layer for Infor Distribution A+	Outlines the steps to install multiple instances of the Infor Storefront Integration Layer for Infor Distribution A+ on a server
Appendix C Upgrading the Infor Storefront Integration Layer for Infor Distribution A+ to the latest version	Provides two options for upgrading the Infor Storefront Integration Layer for Infor Distribution A+ to the latest version

## Related documents

You can find the documents in the product documentation section of the Infor Xtreme Support portal, as described in "Contacting Infor" on page 9.

- [Infor Distribution A+ Installation and Software Update Guide](#)
- [Commerce Gateway Installation and Configuration Guide](#)



- Infor Storefront Installation Guide

## Contacting Infor

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The section provides an overview of the installation process of the Infor Storefront Integration Layer for Infor Distribution A+.

## Installation Process

### Install Infor Storefront Version 2.0.502 or higher

- Infor Storefront Version 2.0.502 or higher must already be installed and operational. Refer to the *Infor Storefront Installation Guide* for detailed instructions.

### Install Commerce Gateway Server

- The Commerce Gateway Server 7.4.14 or higher must be installed on the Infor Storefront server prior to installing the Infor Storefront Integration Layer for Infor Distribution A+. Complete all prerequisite hardware and software requirements and perform the steps of the installation process found in the *Commerce Gateway Installation Guide* before continuing with the next step.

### Install the Infor Storefront Integration Layer for Infor Distribution A+

- Once the above prerequisites have been completed, follow the steps in Chapter 3 of this document to install the Infor Storefront Integration Layer for Infor Distribution A+.

### Configure the Infor Storefront Integration Layer for Infor Distribution A+

- Configure the Infor Storefront Integration Layer for Infor Distribution A+ in Tomcat by following the instructions in Chapter 4 of this document.

### Upgrade Infor Distribution A+ to the required release level to support Infor Storefront Version 2.0.502 or higher

- Infor Distribution A+ must be upgraded to the required release level. If necessary, complete the update steps of the installation process and configuration steps in Chapter 5 of this guide: *Install/Update Infor Distribution A+ for Infor Storefront Update Pack*.

### **Configure the Infor Storefront properties file**

- If necessary, modify the `storefront-integration-aplus.properties` file, using the instructions in Chapter 6 of this guide.

### **Setup Infor Storefront Options in Infor Distribution A+**

- Finally, run an Initial Load in Infor Distribution A+, and setup your Infor Storefront Options as described in Chapter 7 of this guide.

Follow the instructions in the remaining chapters to integrate Infor Version 2.0.502 or later with Infor Distribution A+.

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## Chapter 2 Install Commerce Gateway

# 2

Refer to the Commerce Gateway Installation and Configuration Guide for detailed instructions on installing Commerce Gateway. The Commerce Gateway must be installed before continuing with the next steps.

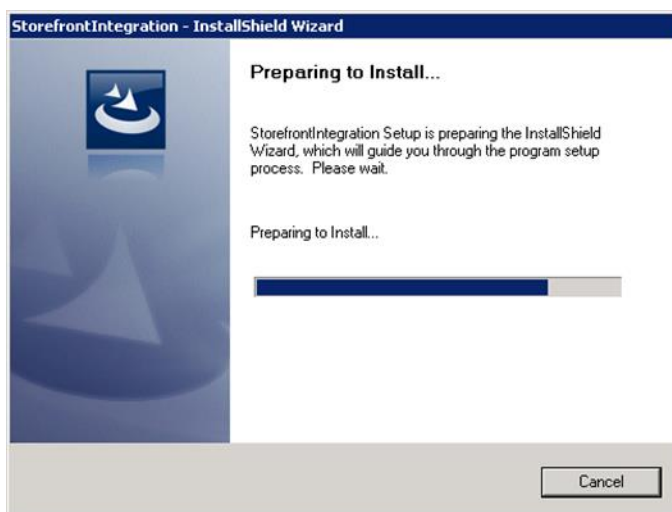


This section describes the requirements and instructions for installing the Infor Storefront Integration Layer for Infor Distribution A+.

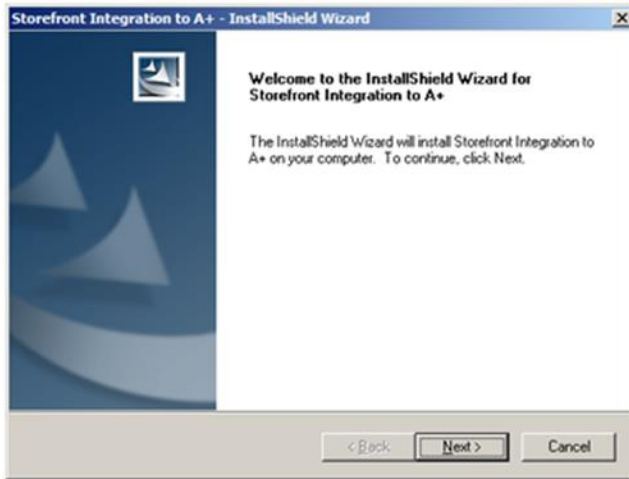
The Infor Storefront Integration Layer for Infor Distribution A+ is distributed as a separate code base, available from the Infor Product Download Center or on CD. The install media contains an InstallShield installation routine that prompts the installer for the directory in which to install the storefrontIntegrationServer.war file and the port that the Commerce Gateway is using.

### Steps to Install the Infor Storefront Integration Layer for Infor Distribution A+

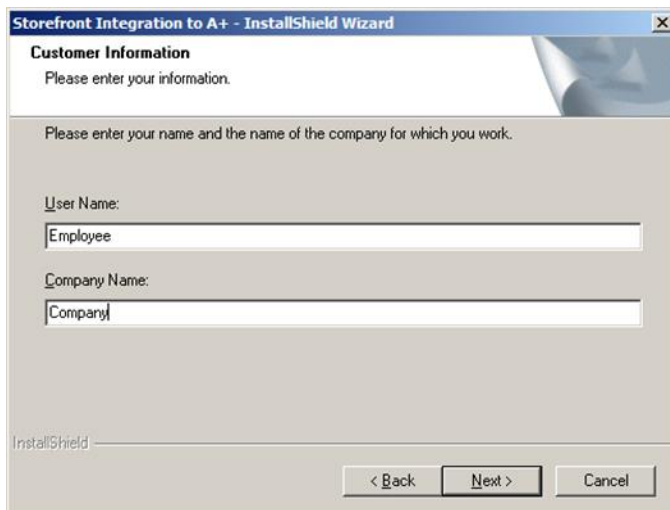
1. Stop your Apache Tomcat Service using Windows Control Panel.
2. Download the latest version of the Infor Storefront Integration Layer for Infor Distribution A+ from the Infor Product Download Center and extract it to a server running Apache Tomcat.
3. Run `setup.exe`. The *Preparing to Install Screen* briefly displays.



4. You will be prompted with the *Storefront Integration to Infor Distribution A+ Welcome Screen*. Click **NEXT** on the Welcome screen.



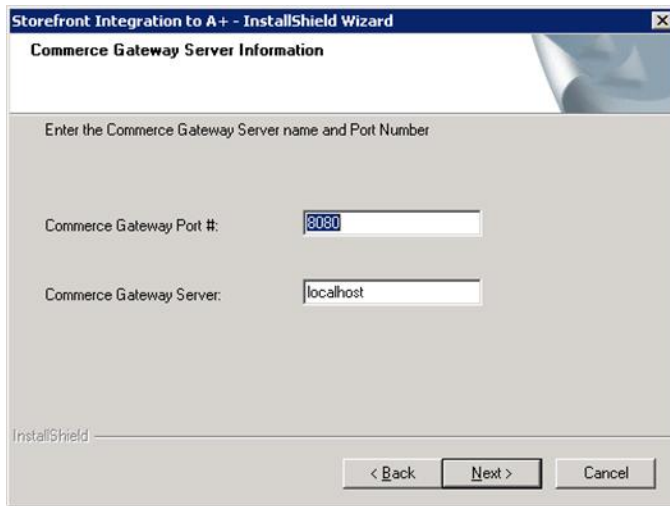
5. You will be prompted with the *Customer Information Screen*. Enter the **User Name** and **Company Name** on the Customer Information Screen. Click **NEXT**.



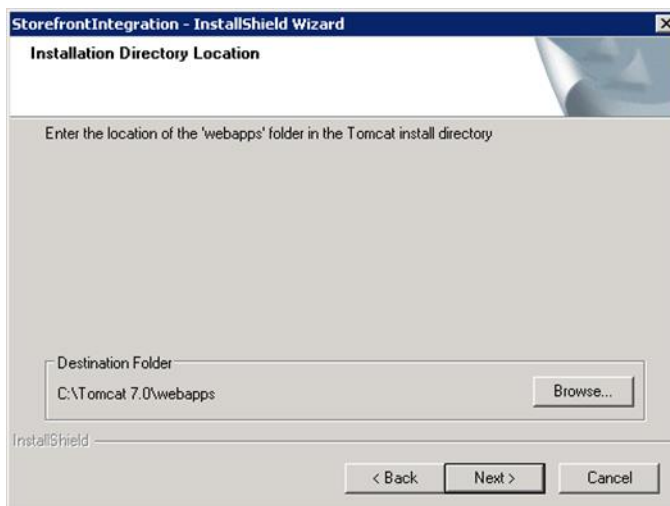
6. You will be prompted with the *Commerce Gateway Server Information Screen*. Enter the **Commerce Gateway Port #** that will be used by the Commerce Gateway. The default port number used by a default Apache Tomcat install is 8080.

Enter the name of your **Commerce Gateway Server**. If you are installing the Infor Storefront Integration Layer on the same machine as the Commerce Gateway, enter `localhost`; otherwise enter the name of the server running Commerce Gateway. Click **NEXT**.

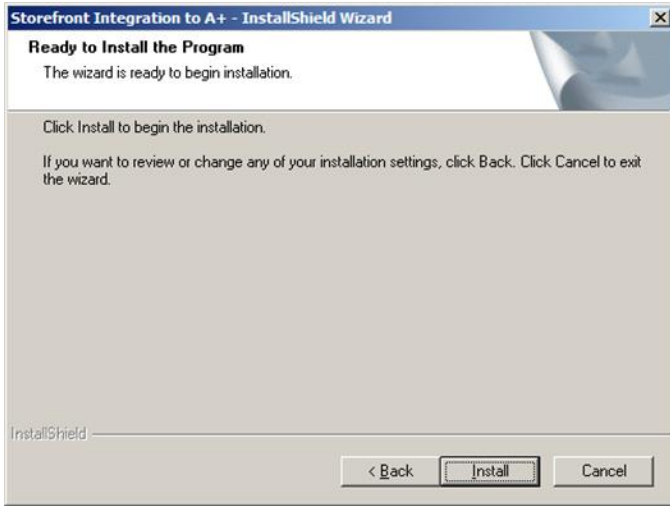




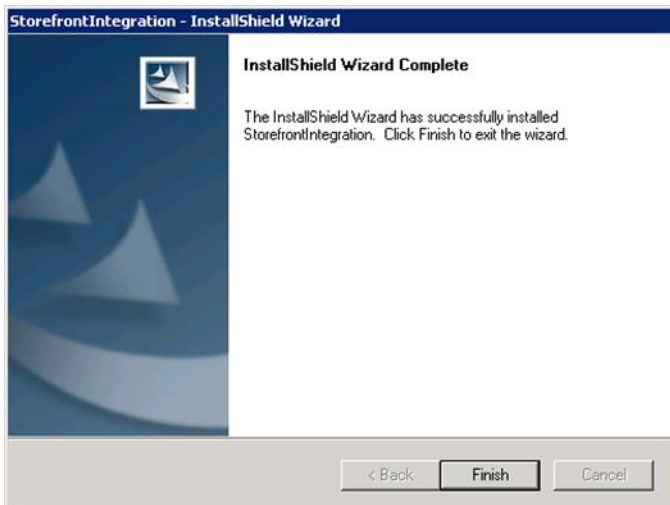
7. You will be prompted with the *Installation Directory Location Screen*. Enter the directory to install the `storefrontIntegrationServer.war` file. Select the "webapps" directory within your Tomcat installation directory. Click **NEXT**.



8. You will be prompted with the *Ready to Install the Program Screen*. Click **INSTALL** to finish the installation of the Infor Storefront Integration Layer for Infor Distribution A+.



9. The InstallShield Wizard Complete Screen displays. Click **FINISH** to close the window.



Once the installation is finished, start your Apache Tomcat Service using Windows Control Panel.

**NOTE:** We recommend you monitor the server log files to identify any errors during the start-up process. If you encounter errors, check the configuration parameters and status of all components within the solution department.

---

## Chapter 4 Configure the Infor Storefront Integration Layer for Infor Distribution A+ in Tomcat

# 4

This section will outline the steps required to configure the Infor Storefront Integration Layer for Infor Distribution A+.

### Configuring the Infor Storefront Integration Layer for Infor Distribution A+

If you have installed the Infor Storefront Integration Layer for Infor Distribution A+ on a different machine than your installation of Infor Storefront, using Notepad, modify the following file on the Infor Storefront machine:

```
<TomCat>/storefrontAppServer/Web-INF/StorefrontRemoteIntegrationContext.xml
```

Change the value of the serviceURL to point to the server containing the installation of the Infor Storefront Integration Layer. This needs to be changed in two places in the file.

The first modification will occur in the “storeFrontService” bean id of the file. Change “localhost” and the port number shown below to the name and port number of your Infor Storefront Integration Layer for Infor Distribution A+ server.

```
<bean id="storeFrontService"  
class="org.springframework.remoting.httpinvoker.HttpInvokerProxyFactoryBean">  
<property name="serviceUrl">  
<value>http://localhost:8080/storefrontIntegrationServer/remoting/StorefrontERPService</value>  
>  
</property>  
<property name="serviceInterface">  
<value>com.infor.dist.storefront.integration.service.IStoreFrontService</value>  
</property>  
</bean>
```

The second modification occurs in the “catalogService” bean id of the file. Change “localhost” and the port number shown below to the name and port number of your Infor Storefront Integration Layer for Infor Distribution A+ server.

```
<bean id="catalogService"  
class="org.springframework.remoting.httpinvoker.HttpInvokerProxyFactoryBean">  
  <property name="serviceUrl">  
    <value>http://localhost:8080/storefrontIntegrationServer/remoting/CatalogERPService</value>  
  </property>  
  <property name="serviceInterface">  
    <value>com.infor.dist.storefront.integration.service.ICommerceCatalogService</value>  
  </property>  
</bean>
```

Once you have finished modifying and have saved the `StorefrontRemoteIntegrationContext.xml` file, restart the Tomcat Service on the Infor Storefront Server.

---

## Chapter 5 Install/Update Infor Distribution A+ for Infor Storefront Update Pack

# 5

This section first explains how to install/update the Infor Distribution A+ for Infor Storefront Update Pack. If you have any modifications to your Infor Distribution A+ programs, it is recommended that you perform the Custom Installation in Appendix A of this guide in order to either apply the Infor Storefront changes to your modified programs, or apply your modifications to the Infor Distribution A+ Infor Storefront Update Pack programs.

In order to install the Infor Distribution A+ for Infor Storefront Update Pack Source, the operating system level of your IBM i must be at V6R1M0 or higher as of Infor Distribution A+ v10.00.01 and IBM i V7R1 is required as of Infor Distribution A+ v10.02.00.

### Install/Update Infor Distribution A+ for Infor Storefront Update Pack 01.06

If you are at Infor Distribution A+ release level 10.00.02 or higher, then you already have the Infor Distribution A+ program changes needed for this Infor Storefront integration, and you do not need to follow the instructions in this chapter to install the Infor Distribution A+ for Infor Storefront Update Pack. Infor Distribution A+ version 10.00.02 and higher includes all the changes found in the Storefront Update Pack v1.06.

Infor Distribution A+ for Infor Storefront Update Pack 1.06 must be installed for Storefront 2.0.401 or later if customer is on an A+ release lower than 10.00.02.

Note: This update is valid with the following release levels of Infor Distribution A+

- v08.02.03
- v08.03.03
- v10.00.01

Note: Users must sign off the system during this dedicated installation.

If you are not at a compatible release level listed above, please see Appendix A in this document, which includes instructions for a Custom Installation of the Infor Distribution A+ for Infor Storefront Update Pack and skip the remainder of this chapter.

### Dedicated Portion of Installation

The dedicated portion of this installation starts at step 6. Steps prior to step 6 can be done without a dedicated Infor Distribution A+ system. For the dedicated steps, all users must be signed out of the Infor Distribution A+ in the base where the Infor Storefront Update Pack will be installed. All Transaction Processor jobs must be completed before you perform this step. Refer

to *Transaction Processors and Brokers* found in Chapter 1 of the Infor Distribution A+ Installation and Software Update Guide and complete all the appropriate steps. When you are completed with the steps, return here and continue.

1. If you do not have CD's for your installation/update, go to the Infor Product Download Center and download the images labeled:

Aplus\_SF\_Update\_Pack\_01\_06.iso

Be sure to notate where you save these images for reference in later steps of this installation.

2. Sign on to the IBM i as QPGMR.

NOTE: If any Infor Distribution A+ libraries appear in your library list at this point, you must remove them before continuing.

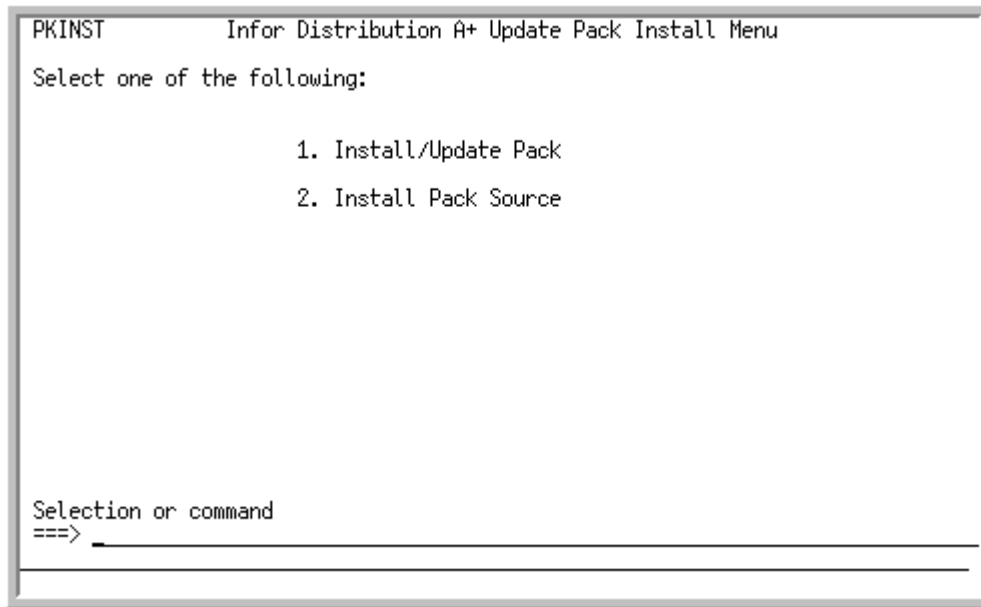
3. Load the first CD-ROM if you have CD's. Allow a few minutes for the CD to load. If you are using virtual images, perform the Install/Update Process steps (1 and 2) in APPENDIX B: *Loading an ISO File on an IBM i for Infor Distribution A+ Install/Updates* found in the Infor Distribution A+ Installation and Software Update Guide to mount the first image to the device you intend to use for the installation.

For this chapter, select to mount image Aplus\_SF\_Update\_Pack\_01\_06.iso. Return here and continue with the next step.

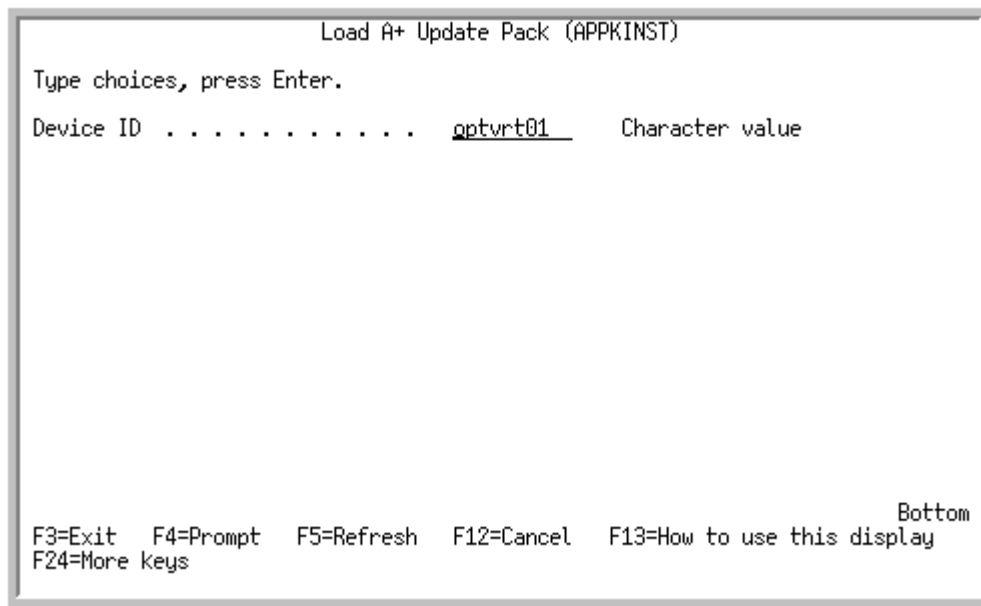
4. Key: LODRUN DEV (media device name) Enter. For the remainder of these instructions the media device name is either your physical CD drive if you are installing from CD's or the virtual optical drive created in APPENDIX B: *Loading an ISO File on an IBM i for Install/Updates* found in the Infor Distribution A+ Installation and Software Update Guide for loading virtual images.

```
MAIN                                IBM i Main Menu                                System:  USALIS03
Select one of the following:
    1. User tasks
    2. Office tasks
    3. General system tasks
    4. Files, libraries, and folders
    5. Programming
    6. Communications
    7. Define or change the system
    8. Problem handling
    9. Display a menu
   10. Information Assistant options
   11. IBM i Access tasks
   90. Sign off
Selection or command
===> lodrun dev(optvrt01)
-----
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=Information Assistant
F23=Set initial menu
```

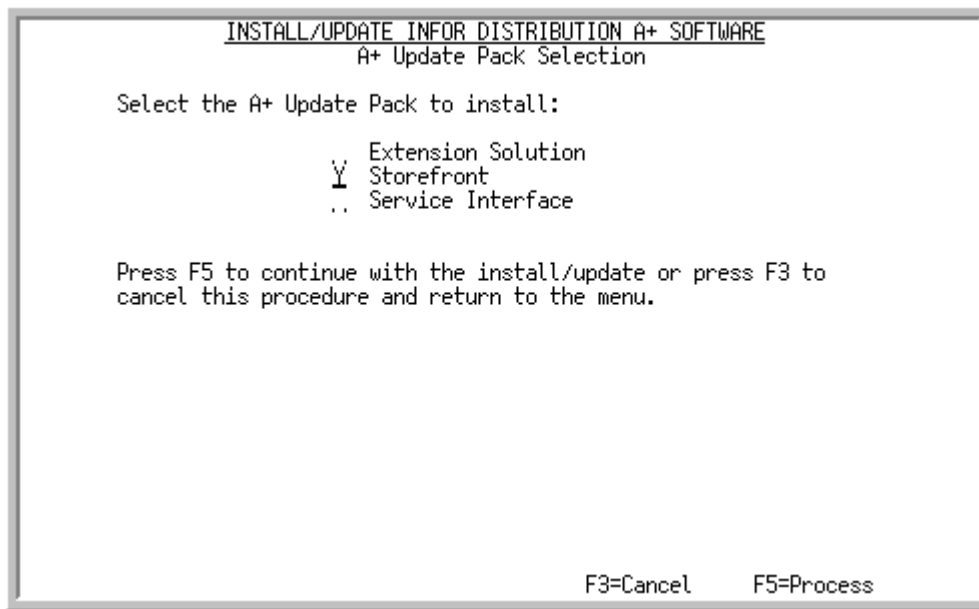
The APINST installation library will be loaded on your system. The Infor Distribution A+ Update Pack Install Menu (MENU PKINST) will appear.



- 5. Select option: 1 – Install/Update Pack  
Type your media device name in the **Device ID** field.

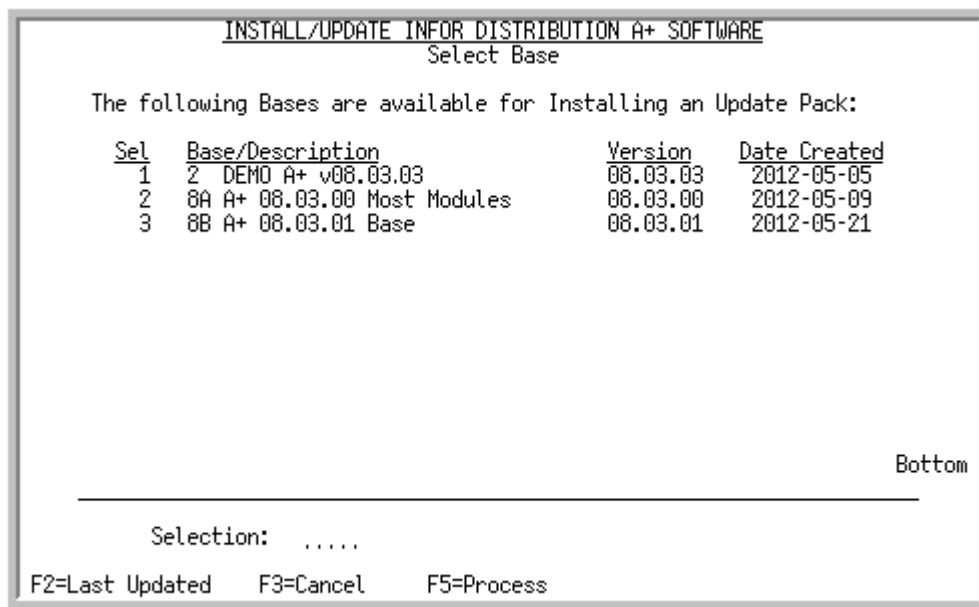


- 6. The *A+ Update Pack Selection Screen* displays. Key **Y** to select the Storefront Update Pack for installation and press **F5=PROCESS**.



7. Install/Update Infor Distribution A+ Software - Select Base

The *Select Base Screen* will show all available bases and their version, release, and patch level. Select the base you want to update with the Infor Distribution A+ Storefront Update Pack and press F5=PROCESS.



8. Pack File Update - Select Environments

The *Select Environments Screen* allows you to select the environments to update. This installation will affect all environments in the base being updated. For this reason, it is recommended that all environments in the base are updated for the file update portion of the installation.



All file libraries in this base ID will be displayed. Press **F10=SELECT ALL** to select all environments, **F11=UNSELECT ALL** to clear the environment selections, or key **Y** next to the environment(s) to be updated in this step. When your selections are complete, press **F5=PROCESS** to process.

```

PACK INSTALL FILE UPDATE
Select Environments

The following Environments are available for a file update
in Base 2 DEMO A+ v08.03.03:

  Y/N Env/Description          Version    Last Updated
  ---  -
1  Y   D1 A+ D1 v08.03.03      08.03.03  2012-05-05
2  Y   D2 A+ D2 v08.03.03      08.03.03  2012-05-05
3  Y   D5 A+ D5 v08.03.03      08.03.03  2012-05-05
4  Y   D6 A+ D6 v08.03.03      08.03.03  2012-05-05
5  Y   D7 A+ D7 v08.03.03      08.03.03  2012-05-05

Bottom

Key Y for the Environments that you would like to run the File Update
over. Press F5 to Process when all selections are complete.

F5=Process    F10=Select All    F11=Unselect All    F12=Cancel

```

9. The Install/Update Selection screen displays with the base selected.

Verify that the correct Update Pack(s) and Base ID are displayed and press **F5=PROCESS** to process your selections.

```

INSTALL/UPDATE INFOR DISTRIBUTION A+ SOFTWARE
Install/Update Selection

This process will install/update A+ libraries with the
most current version of the following Update Packs:

Storefront

Base to Update: 2 DEMO A+ v08.03.03

Press F5 to continue with the install/update or press F12 to
return to the previous screen.

F3=Cancel    F5=Process

```

When this step is completed, the Infor Distribution A+ Update Pack Install Menu will be redisplayed. The Infor Distribution A+ for Infor Storefront Update Pack has been installed to your selected base.



## Chapter 6 Configure the Infor Storefront Properties File

# 6

Infor Storefront uses values contained in the `storefront-integration-aplus.properties` file installed during the Infor Storefront Integration Layer for Infor Distribution A+. These values are updated during the install with the name of the Commerce Gateway server and the port number on which the Commerce Gateway is running. This file also contains information about Infor Storefront state and country codes which must match the state and country codes defined in Infor Distribution A+.

In many cases, this file will not need to be modified. However, in case the Commerce Gateway server name or port number changes, the system administrator will need to modify this file. Additionally, the system administrator should verify that the state and country codes defined in this file match the state and country codes defined in Infor Distribution A+.

This section will describe the contents of this file, and will outline the steps required to modify this file, if necessary.

1. Using Notepad, open the `storefront-integration-aplus.properties` file located in the following location on the Storefront server:

`/Tomcat/webapps/StorefrontIntegrationServer/WEB-INF`

2. Edit the properties as shown below.

Property	Value
<code>gateway.url</code>	<code>http://localhost:8080/gatewayAdmin/remoting/GatewayEngineService</code> <p>This value is updated during the install. However, it will need to be modified if the name of the server or the port number changes after the install. This value is the URL to use when accessing the Commerce Gateway.</p> <ul style="list-style-type: none"><li>• <b>localhost</b> will need to be replaced with the name of the server running the Commerce Gateway</li><li>• <b>8080</b> will need to be replaced with the port number running the Commerce Gateway.</li></ul>
<code>gateway.platform</code>	<code>as400</code> <p>This value should not be modified</p>

Property	Value
gateway.useRemoting	true This value should not be modified
state.Country.0	USA
states.0	<p>AK,AL,AR,AZ,CA,CO,CT,DC,DE,EU,FL,GA,HI,IA,ID,IL,IN,KS,KY,LA,MA,MD,ME,MI,MN,MO,MS,MT,NC,ND,NE,NH,NJ,NM,NV,NY,OH,OK,ON,OR,PA,PR,RI,SC,SD,TN,TX,UT,VA,VT,WA,WI,WV,WY</p> <p>Infor Storefront requires that states be associated with a country. In Infor Distribution A+ however this relationship between state codes and country codes does not exist. As a result State codes and Country codes for Infor Storefront are being maintained in this property file. Currently, both the US and Canadian Postal State Abbreviation codes are preloaded into your environment. Please validate that the state codes and country codes in the properties file exist in Infor Distribution A+ and match what you have setup in Infor Distribution A+ State/Province Code Maintenance (MENU OEFIL2) and Country Name Maintenance (MENU ARFIL2). Both the country and state codes setup in this properties file must match or else you may receive errors on your data imports.</p> <p>If Infor Distribution A+ is using a country code that does not already appear in the file, simply add an entry to this file in the <b>#States with Countries</b> section for the <b>stateCountry.#=</b> and <b>states.#=</b> (where # is a zero for USA and 1 for CAN) lines to reflect what is defined in Infor Distribution A+.</p> <p>For example, if Infor Distribution A+ uses the country code "US", insert the following entries, incrementing the number to the right of <i>stateCountry.</i> and <i>states.</i> by one.</p> <p>stateCountry.2=US</p> <p>states.2=AK,AL,AR,AZ,CA,CO,CT,DC,DE,EU,FL,GA,HI,IA,ID,IL,IN,KS,KY,LA,MA,MD,ME,MI,MN,MO,MS,MT,NC,ND,NE,NH,NJ,NM,NV,NY,OH,OK,ON,OR,PA,PR,RI,SC,SD,TN,TX,UT,VA,VT,WA,WI,WV,WY</p>
stateCountry.1	CAN
states.1	AB,BC,MB,NB,NF,NS,NT,ON,PE,PQ,SK,YT
ProdRestrictions	prodRestrictions.ser Filename that stores Product Restriction Codes
ProdRestrictionCodes	ProdRestrictionCodes.ser Filename that stores Product Restriction Codes
ProdRestrictionItems	prodRestrictionItems.ser Filename that stores Product Restriction Items

Property	Value
ProdRestrictionsLoadAtStartup	<p>True/False</p> <p>Loads restriction data at service startup</p> <p><b>Note:</b> As of Infor Storefront version 2.0.201, this value must be set to False if Commerce Gateway is running in the same Apache Tomcat Instance as Infor Storefront integration.</p> <p>To set this value to True, Commerce Gateway must be running in a different Apache Tomcat Instance (for example, with a different port number or on a different server), and will need to be running <b>before</b> starting the Infor Storefront integration.</p>
ProdRestrictionStates	<p>prodRestrictionStates.ser</p> <p>Filename that stores Product Restriction States</p>
ProdRestrictionsUsed	<p>True/False</p> <p>Controls filling of hashmaps and text files with restriction data</p>
ProdRestrictionAggregateHashMapSize	<p>10000</p> <p>Large number of Product Restrictions can cause Java Heap or Unrecoverable Error when performing a Keyword Search in Commerce Connect.</p> <p>Decreasing the ProdRestrictionAggregateHashMapSize from its current value (default value is 10000) to a smaller value will eliminate this error, by storing more data in the .ser files above, rather than storing the data in memory. We recommend decreasing this value in increments of 100, depending on the number of Product Restrictions you have.</p>
aplus.company.number.format	<p>00</p> <p>This is used in the PayOpenInvoice transaction. It represents the string format of the Company Number in Infor Distribution A+. The Infor Distribution A+ company number must be two characters. For example, Company 1 will appear as '01'</p>
aplus.customer.number.format	<p>0000000000</p> <p>This is used in the PayOpenInvoice transaction. It represents the string format of the Customer Number in Infor Distribution A+. The Customer Number must be 10 characters. For example, Company 1/Customer 100 will appear as "010000000100"</p>
item_level_backorder	<p>True/False</p> <p>Indicates that only the item's Backorder flag will control if an item can be back ordered. Backorders flags at the customer/ship level will be ignored.</p>
Version	2.0.502

3. Save the file and restart Apache Tomcat.

This next section will outline the setup options that need to be defined or enabled in Infor Distribution A+ to enable the integration with Infor Storefront. These steps assume that you are signed into the Infor Distribution A+ environment with adequate privileges.

---

## Chapter 7 Define Infor Storefront Options in Infor Distribution A+

# 7

This next section will outline the setup options that need to be defined or enabled in Infor Distribution A+ to enable the integration with Infor Storefront. These steps assume that you are signed into the Infor Distribution A+ environment with adequate privileges.

This section describes the settings in the Infor Distribution A+ application that are required to run with Infor Storefront.

### Run an Initial Load

First, follow these steps to run an Initial Load in Infor Distribution A+. The initial load is a one-time load of the Change Item File (CCDELTA) and Item Availability File (ITBAVL) that are needed for Infor Storefront Commerce.

1. Key: **go sfmain** and select option 5.
2. Press **ENTER** to run the Initial Load. A series of screens may appear during this process:
  - The Stop A+ Screen will appear to tell you that the process is now going to stop all Infor Distribution A+ processing. Press **ENTER** to continue or press **F3=EXIT** to cancel the update and return to MENU SFMAIN.
  - The Stop A+ Active Users Screen will appear to tell you which users are signed on to Infor Distribution A+. Those users will not be allowed to select any new menu options until Infor Distribution A+ is restarted at the end of this process. Press **ENTER** to continue with the update.
  - Refer to Stop A+ (MENU XAMAST) in the Cross Applications User Guide for more information on this screen and process.

### Allow Infor Storefront access within Order Entry

Then, follow these steps to allow Infor Storefront access within Order Entry (MENU OEMAIN).

1. Key: **go sfmain** and select option 1.
2. Enter **Y** to **Allow access to Infor Storefront from Order Entry**.

Enter the Infor Storefront Commerce URL. This URL begins with `http://`, followed by the name of the Infor Storefront Server, with a colon, then the port # that the Infor Storefront Commerce is running on, ending with `/storefrontCommerce` .

For example: `http://SFSERVER:8080/storefrontCommerce/`

NOTE: If you are running a version of Infor Distribution A+ prior to version 08.02.03, you must also perform the following:

1. Key: **go ctmain** and select Option **20**.
2. Enter **Y** to **Allow access to Catalog from Order Entry**.



---

## Chapter 8 Test the Infor Storefront to Infor Distribution A+ Integration

# 8

This section will outline the steps to test the integration of Infor Storefront with Infor Distribution A+:

1. Sign onto the storefrontAdmin as an Administrator. Follow the instructions in the Infor Storefront User Guide to access storefrontAdmin.
2. Click on Retrieve Data on the left side.
3. Click on the Retrieve Data button. If your data is retrieved successfully, your Infor Storefront environment is integrated with Infor Distribution A+.
4. Check server log files for troubleshooting help, if the integration is not successful.



---

## Chapter 9 Uninstall Infor Storefront Integration to Infor Distribution A+

# 9

Follow these steps to uninstall the Infor Storefront Integration to Infor Distribution A+.

1. Stop the Apache Tomcat Web Application Server Service.
2. Using Control Panel, Add/Remove the Infor Storefront Integration to Infor Distribution A+.
3. Remove the {Tomcat Install Directory}\webapps\ storefrontIntegrationServer.war file.
4. Remove the {Tomcat Install Directory}\webapps\storefrontIntegrationServer directory.
5. Remove the {Tomcat Install Directory}\work\Catalina\localhost\ storefrontIntegrationServer directory.



---

## Chapter 10 Install/Update Infor Distribution A+ for Infor Storefront Update Pack Source

# 10

This section explains how to install/update the Infor Distribution A+ for Infor Storefront Update Pack Source. If you are not authorized to source code, skip this chapter.

In order to install the Infor Distribution A+ for Infor Storefront Update Pack Source, the operating system level of your IBM i must be at V5R4M0 or higher; IBM i V6R1 is required as of Infor Distribution A+ v10.00.01.

1. If you do not have CD's for your installation/update, go to the Infor Product Download Center and download the images labeled:

`Aplus_SF_Update_Pack_Source_01_06.iso`

Be sure to notate where you save these images for reference in later steps of this installation.

2. Sign on to the IBM i as QPGMR.

NOTE: If any Infor Distribution A+ libraries appear in your library list at this point, you must remove them before continuing.

3. Load the first CD-ROM if you have CD's. Allow a few minutes for the CD to load. If you are using virtual images, perform the Install/Update Process steps (1 and 2) in APPENDIX B: *Loading an ISO File on an IBM i for Install/Updates* found in the Infor Distribution A+ Installation and Software Update Guide to mount the first image to the device you intend to use for the installation.

For this chapter, select to mount image `Aplus_SF_Update_Pack_Source_01_06.iso`. Return here and continue with the next step.

4. Note: If you have already loaded the installation library for the Infor Distribution A+ for Infor Storefront Update Pack Install, this step can be skipped.

Key: `LODRUN DEV (media device name) ENTER`. For the remainder of these instructions the media device name is either your physical CD drive if you are installing from CD's or the virtual optical drive created in APPENDIX B: *Loading an ISO File on an IBM i for Install/Updates* found in the Infor Distribution A + Installation and Software Update Guide for loading virtual images.

```
MAIN                                IBM i Main Menu                                System:  USALIS03
Select one of the following:
    1. User tasks
    2. Office tasks
    3. General system tasks
    4. Files, libraries, and folders
    5. Programming
    6. Communications
    7. Define or change the system
    8. Problem handling
    9. Display a menu
   10. Information Assistant options
   11. IBM i Access tasks

    90. Sign off

Selection or command
===> lodrun dev(optvrt01)

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=Information Assistant
F23=Set initial menu
```

5. The APINST installation library will be loaded on your system, and the Infor Distribution A+ Update Pack Install Menu (MENU PKINST) will appear.

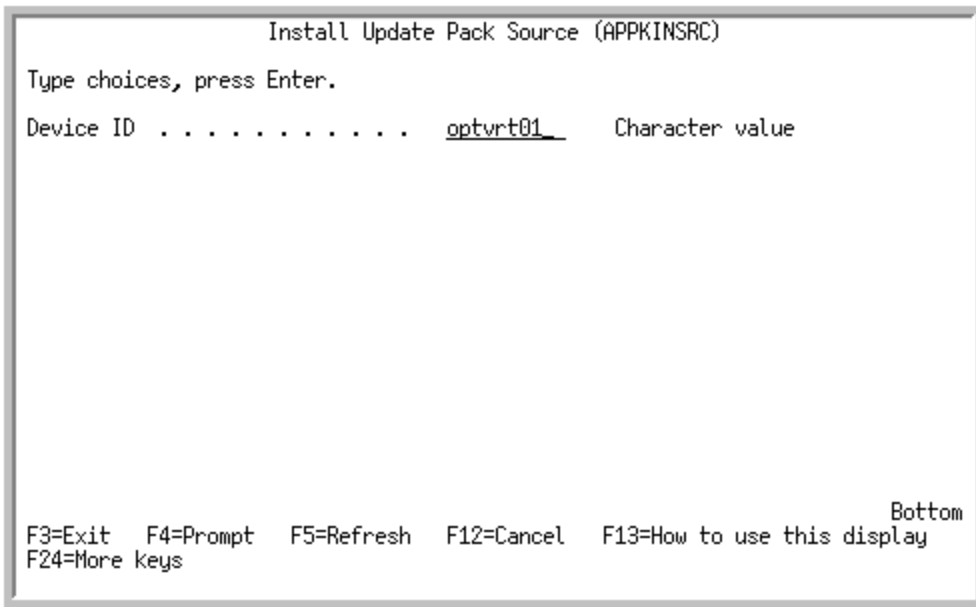
Select option: 2 – Install Pack Source.

```
PKINST                               Infor Distribution A+ Update Pack Install Menu
Select one of the following:

    1. Install/Update Pack
    2. Install Pack Source

Selection or command
===> _
```

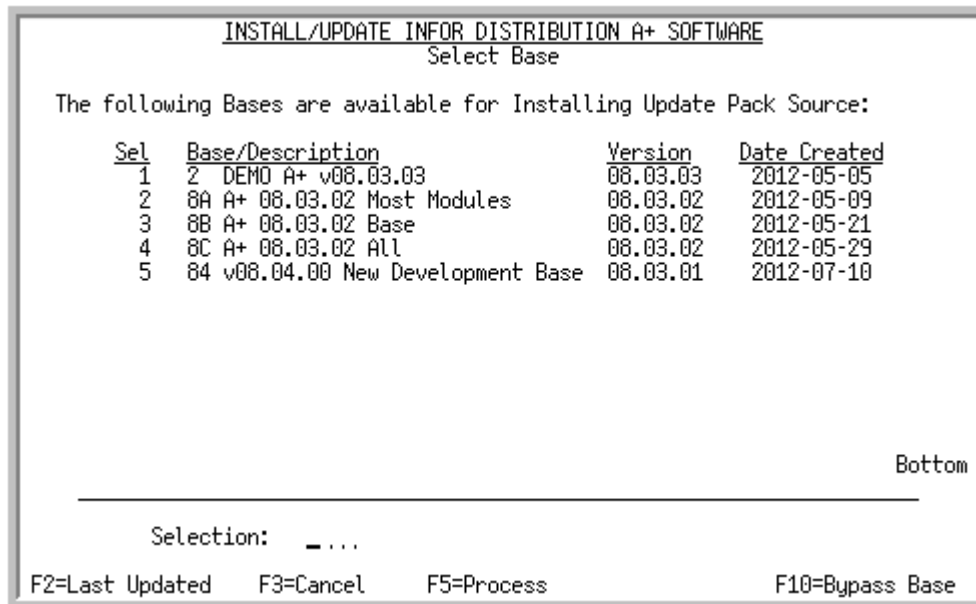
6. On the Install Update Pack Source (APPKINSSRC) Screen, type your media device name in the **Device ID** field and press **ENTER**.



7. Install/Update Infor Distribution A+ Software – Select Base

The first prompt screen, *Select Base*, displays. This screen will show all bases that are available for installing the Pack Source.

Select the base you want to update with Source for the selected packs and press **F5=PROCESS**.



8. Install/Update Pack Source – Library Selection

Choose the library where you would like the Pack Source to be installed. Select **Y** to install the source for the Storefront Update Library, **AP\_SFUPD\_S**.

Press **F5=PROCESS**; or press **F3=EXIT** to cancel the process and return to the menu without completing the Pack Source update process.

```
          INSTALL/UPDATE INFOR DISTRIBUTION A+ PACK SOURCE
          Library Selection

Install A+ Pack Source to Library: .....

Place a "Y" beside the source libraries you wish to install/update:

.. Extension Solution Base Library (AP_ES_S)
.. Extension Solution Update Library (AP_ESUPD_S)
Y  Storefront Update Library (AP_SFUPD_S)
.. Service Interface Update Library (AP_SIUPD_S)

                                     F3=Cancel   F5=Process
```

When this step is completed, the Infor Distribution A+ Update Pack Install Menu will be redisplayed. The installation of the Infor Storefront Update Pack Source code has been installed to the library you keyed on the prompt screen.



---

# Appendix A Custom Installation of Infor Distribution A+ for Infor Storefront Update Pack



## A

In order to perform the automated installation (described in Chapter 5 of this document) of the Infor Storefront Update Pack to your current version of Infor Distribution A+, you must be at one of the following release levels:

- v8.02.03
- v8.03.03
- v10.00.01

If you are at release v10.00.02 or higher, then the changes necessary for this Infor Storefront integration are already installed. No further steps are needed.

To determine your current version of Infor Distribution A+, key **APLUSLVL** **ENTER** on a command line and press **ENTER**. If your version of Infor Distribution A+ is not one of the supported versions listed above, then you can either upgrade to any of the supported versions of Infor Distribution A+; or you can perform a custom installation of the Infor Storefront Update Pack as described in this chapter.

To upgrade to a supported version of Infor Distribution A+, go to the Infor Product Download Center and download the image files needed or place an order for CDs. Refer to the Infor Distribution A+ Installation and Software Update Guide and follow instructions for “Installing an Infor Distribution A+ Patch Update” for a patch; or see “Software Update Instructions” for a new Infor Distribution A+ version/release. Then you can perform the install of the Infor Storefront Update pack using the instructions in Chapter 5 of the Storefront Integration Layer Implementation Guide for Infor Distribution A+.

If you are unable to upgrade to a supported version of Infor Distribution A+, then follow the instructions below for a Custom Installation of the Infor Storefront Update Pack. The dedicated portion of the Custom Installation starts at step 17; all steps prior to step 17 can be done without a dedicated Infor Distribution A+ system. When you are ready to move programs live to your base, it will affect all environments in that base. For this reason, all environments in the base will need to be updated for the file update portion (step 18) of the Custom Installation.

If you have custom modifications to any of the Infor Distribution A+ programs listed in this Appendix, you should either apply the Infor Storefront changes noted below to your modified source, or apply your modifications to the source with the Infor Storefront changes.

Note: You must be authorized to source code in order to do a Custom Installation.

1. Sign onto the IBM i as QPGMR.

NOTE: If any Infor Distribution A+ libraries appear in your library list at this point, you must remove them before continuing.

2. If you do not have CD's but are using virtual images, complete the Prerequisite and IFS Load steps in APPENDIX B: *Loading an ISO File on an IBM i for Install/Updates* found in the Infor Distribution A+ Installation and Software Update Guide and then return here and continue with the next step. If you have CD's, continue with the next step. You will need the following image files:

Aplus\_SF\_Update\_Pack\_01\_06.iso

Aplus\_SF\_Update\_Pack\_Source\_01\_06.iso

3. Load the program objects CD-ROM if you have CD's. Allow a few minutes for the CD to load. If you are using virtual images, perform the Install/Update Process steps (1 and 2) in APPENDIX B: *Loading an ISO File on an IBM i for Infor Distribution A+ Install/Updates* found in the Infor Distribution A+ Installation and Software Update Guide to mount the first image to the device you intend to use for the installation. Mount image:

Aplus\_SF\_Update\_Pack\_01\_06.iso.

4. Key in the following command to restore the Storefront Update library:

```
RSTLIB SAVLIB(AP_SFUPD) DEV(device)
```

5. If library APINST already exists on your system, you will need to rename it prior to restoring the updated version for the Infor Distribution A+ for Infor Storefront Update Pack. Key in the following command to restore the Infor Distribution A+ Installation Library:

```
RSTLIB SAVLIB(APINST) DEV(device)
```

6. Mount image Aplus\_SF\_Update\_Pack\_Source\_01\_06.iso, or insert the CD-ROM for the Storefront Source Code.

7. Key in the following command to restore the Infor Distribution A+ for Infor Storefront Source Code library:

```
RSTLIB SAVLIB(AP_SFUPD_S) DEV(device)
```

Important Information about the AP\_SFUPD\_S library:

Upon browsing the source files in this library, you will notice that many members begin with “@”. These versions of the programs are used for back releases of Infor Distribution A+. To find the best fit for your custom installation, please note the naming convention used for each back release version:

Prefix of @8: Compatible with Infor Distribution A+ v08.02.03

Prefix of @9: Compatible with Infor Distribution A+ v08.03.03

The closest compatible version for your install of Infor Distribution A+ will be automatically determined by the programs provided for a Custom Installation. For example, if your version of Infor Distribution A+ is 08.02.00, then you will likely want to use the programs with a prefix of @8 if it exists. If your version of Infor Distribution A+ is 08.03.01, then use programs with a prefix of @9. If a program does not exist with a prefix, then the version of the program without a prefix can be used. The same naming convention exists for the objects in the Infor Storefront Update Library (AP\_SFUPD).

Note that there is not necessary a 1:1 ratio between source with an '@' prefix and objects. There may be objects with a prefix for your version without a corresponding source member because the program only needed to be recompiled to prevent level checking at the prior release.

8. Determine the library where you will be putting your Infor Distribution A+ for Infor Storefront programs and making any necessary changes. This will be referred to as the “Storefront Work Library”. It is recommended that you use a work library as your Storefront Work Library to allow for testing before moving the programs live. In a later step, you will be instructed to move your changes to the installed Infor Distribution A+ patch library. A suggested name for your Storefront Work Library is **APSFLIB**.
9. The following Infor Distribution A+ programs are needed for this Infor Storefront integration. If a back release version exists in the Storefront Source library, then it will be marked below.

If a program required special changes made in order to function at a lower release of Infor Distribution A+ or if the back release version of the program was used with the Infor Storefront change applied to it, then the release level column for that program will be marked with an ‘X’. The source and object from the back release version of the program (with the prefix determined above) will be required for your custom installation.

Program	Chg	Type	Description	v8.02.03	v8.03.03	v10.00.01
OEF800FM	##b	DSPF	Freight Rate Maintenance			
OEF801FM	New	DSPF	Default Freight Method Assignment			
LOADUGFM	New	DSPF	Initial Load for ITUPC or ITGTIN			
WBLLOADFM	##c	DSPF	Commerce Catalog Initial Load			
WB920FM	New	DSPF	Storefront Options			
BAICSFRT	New	CLLE	Build CSFRT Logical Files			
BAIARDHD	##h	CLLE	Build ARDHD Logical Files			
BAIHSHEd	##s	CLLE	Build HSHED Logical Files	X	X	
BAICRDHD	##c	CLLE	Build ICRDHD Logical Files			
BAITGTIN *	##a	CLLE	Build ITGTIN Logical Files	n/a		
only for A+ versions 8.3.3 and up						
BAITUPC	##c	CLLE	Build ITUPC Logical Files			
CATCHCKP	n/a	CLLE	** Secured Program; Object only **			
DAICSFRT	New	CLLE	Delete CSFRT Logical Files			
DAIARDHD	##g	CLLE	Delete ARDHD Logical Files			
DAIHSHEd	##s	CLLE	Delete HSHED Logical Files	X	X	
DAICRDHD	##c	CLLE	Delete ICRDHD Logical Files			
DAITGTIN *	##a	CLLE	Delete ITGTIN Logical Files	n/a		
only for A+ versions 8.3.3 and up						
DAITUPC	##c	CLLE	Delete ITUPC Logical Files			
GWS720P	##a	CLLE	Pay Open Invoice			
GW115PQ	##d, ##e, ##f	CLLE	Gateway Web Order Load (Submitted)	X	X	
GW191P	##f, ##g, ##h, ##i, ##j, ##k, ##L	CLLE	Gateway Web Order Total Transaction	X	X	
GW600P	n/a	CLLE	** Secured Program; Object only **			
LOADUGP	New	CLLE	Initial Load for ITUPC or ITGTIN	X		
LOADUGP *	##a	CLLE	Initial Load for ITUPC or ITGTIN			
only for A+ versions prior to 8.3.3						
WB920P	New	CLLE	Storefront Options	X		
WBLLOADP	n/a	CLLE	** Secured Program; Object only **	X	n/a	n/a
GWC110	##0h, ##0k	RPGLE	Get item price and availability	X	X	
GWS720	##b, ##c	RPGLE	Post Storefront Payment to Offline AR Files	X	X	
GWS720 *	##d	RPGLE	Post Storefront Payment to Offline AR Files			
only for A+						

Program	Chg	Type	Description	v8.02.03	v8.03.03	v10.00.01
versions 8.3.3 and up						
GW5720E	New	RPGLE	Post Storefront Payments Gateway Response Message			
GW300	##c, ##d	RPGLE	Catalog Interface Program	X		
GW710	##m, ##n	RPGLE	Retrieve Price and Availability	X	X	
GW720	##0g, ##0h, ##0k, ##0l, ##0n, ##0o, ##0p, ##0q, ##0r, ##0s, ##0t, ##0u, ##0v, ##0w, ##0z, ##1a, ##1b, ##1e, ##1g	RPGLE	Create a sales order (via catalog)	X	X	
GW720 * only for A+ versions 8.3.3 and up.	##1d, ##1f	RPGLE	Create a sales order (via catalog)			
GW755C	New	RPGLE	Storefront Customer Currency Retrieval			
OEF100	##c	RPGLE	Freight Calculation Sub-program	X		
OEF101	##b, ##c	RPGLE	Create Freight Special Charge	X	X	
OEF800	##c	RPGLE	Freight Rate Maintenance	X		
OEF801	New	RPGLE	Default Freight Method Maintenance	X		
OEP110 * only for A+ versions 8.3.3 and up	##u, ##v, ##w, ##z	RPGLE	E-Payment Transaction Log Program	n/a	X	
OEP110 * only for A+ version 8.3.3	##0a	RPGLE	E-Payment Transaction Log Program			
OEP110 * only for A+ versions 10.0.0 and up	##x, ##y	RPGLE	E-Payment Transaction Log Program			
OEP150C * only for A+ versions 8.3.3 and up	##g	RPGLE	Cenpos EP Interface Program	n/a	X	
OEP109 * only for A+ versions 8.3.3 and up	##1w	RPGLE	Order Split Program	n/a	X	
OEP109 * only for A+ version 8.3.3	##1z	RPGLE	Order Split Program			
OEP109 * only for A+ versions 10.0.0 and up	##1x	RPGLE	Order Split Program			
OE130	##du, ##dz, ##eg, ##ei, ##eq, ##er, ##et, ##ew	RPGLE	Off Line Order Entry	X	X	
TRGITGTIN * only for A+	New	RPGLE	ITGTIN Physical file trigger	n/a		

Program	Chg	Type	Description	v8.02.03	v8.03.03	v10.00.01
versions 8.3.3 and up						
TRGITUPC	New	RPGLE	ITUPC Physical file trigger			
WB920	##*a, ##*b	RPGLE	Storefront Options			
EBMAIN	n/a	Menu	eBusiness Menu			
SFMAIN	##*a	Menu	Storefront Main Menu			
LOADUG	New	Command	Create Initial Load for ITUPC and ITGTIN	X		

Source is not provided for secured programs CATCHCKP, GW600P, and WBLOADP.

#### 10. Copy Source to your Storefront Work Library Automatically

Add the Infor Distribution A+ Installation Library to your library list if it isn't already there, by keying:

**ADDLIBLE APINST**

Key in the following command to automatically move the source for the Infor Distribution A+ programs to your Storefront Work Library:

**APSF CSTS**

Press **F4** to prompt, and key in your Base ID and your Storefront Work Library. Pack Type will default in as 'SF', and should not be changed. Press **ENTER**.

This automated process will determine the best suited version of the programs for your Custom Installation of Infor Storefront.

For example, if you are installing at version 08.03.01 of Infor Distribution A+, then the version of the source for @9BAIHSHEd, @9DAIHSHEd, @9GWC110, @9GWS720, @9GW115PQ, @9GW191P, @9GW710, @9GW720, @9OEF101, @9OEF801, @9OEP110, @9OEP150C, @9OE109, and @9OE130 will be copied to the Storefront Work Library with the prefix of '@9' removed. The source member without a prefix will be copied for the remainder of the programs.

#### 11. The source members listed below can be found in the Infor Distribution A+ for Infor Storefront Update library, AP\_SFUPD. No steps are necessary; this is for informational purposes only.

Program	Chg	Type	Description	Source File
ARHPO1	New	LF	AR Logical View of ARDHD, HSHED, & ICRDHD files	QDDSSRC
CSFRT	New	PF	Freight Rate Table	QDDSSRC
CSFR1	New	LF	Logical View of CSFRT	QDDSSRC
CSFR2	New	LF	Logical View of CSFRT	QDDSSRC
GW15LCK	New	PF	Storefront Locking File v1.5	QDDSSRC
P_GWS720	New	RPGLE	Prototype for GWS720	QCPYSRC
P_GWS720E	New	RPGLE	Prototype for GWS720E	QCPYSRC
P_GW755C	New	RPGLE	Prototype for GW755C	QCPYSRC
P_LOADUG	New	RPGLE	Prototype for LOADUG	QCPYSRC
P_OEF101	##*a	RPGLE	Prototype for OEF101	QCPYSRC
P_OEF801	##*a	RPGLE	Prototype for OEF801	QCPYSRC

12. Copy Objects to your Storefront Work Library Automatically

Add the Infor Distribution A+ Installation Library to your library list if it isn't already there, by keying:

**ADDLIBLE APINST**

Key in the following command to automatically move the objects for the Infor Distribution A+ programs to your Storefront Work Library:

**APSF CSTO**

Press **F4** to prompt, and key in your base ID and your Storefront Work Library. Pack Type will default in as 'SF', and should not be changed.

This automated process will determine the best suited version of the programs for your Custom Installation of Storefront.

For example, if you are installing at version 08.02.01 of Infor Distribution A+, then the version of the object that has a prefix of '@8' will be copied to the Storefront Work Library with the prefix of '@8' removed. For all other programs without a special back release version, the object member without the prefix will be copied.

13. Using your session signed on as QPGMR, sign into Infor Distribution A+ to the base and environment where you'll be using the Storefront Update Pack. Add the Storefront Work Library to your library list, if it is not already there.

14. Review the source code for all programs in your Storefront Work Library that have a special back release version.

Important: Program changes made at a higher patch level than your installed patch level may need to be manually removed in order to function properly.

Important: If you have custom modifications to any of the base Infor Distribution A+ programs listed above, you should either apply the Infor Storefront changes noted to your modified source, or apply your modifications to the source with the Infor Storefront changes.

15. If you need to run the file update step only over an Infor Distribution A+ test environment in order to compile your changes and/or custom modifications, you can run the following command.

Add the Infor Distribution A+ Installation Library to your library list, if it isn't already there, by keying:

**ADDLIBLE APINST**

Key in the following command to automatically run the file update in a test environment:

**APSF CSTF**

Press **F4** to prompt, and key in your base ID, your file library (APLUSbbFee, where 'bb' is your Infor Distribution A+ Base ID, and 'ee' is your test Environment ID) and your Storefront Work Library. Pack Type will default in as 'SF', and should not be changed.

16. After you are done removing any necessary changes or applying any custom modifications in the previous step, compile all programs in your Storefront Work Library that have had changes made. Thoroughly test your changes in the Storefront Work Library in a test environment prior to moving on to the next step.

17. Once you are confident with the programs in the Storefront Work Library, you can move your changes live by performing the remaining steps. This requires a dedicated system. Have all

users exit out of the base where you will be installing Infor Distribution A+ for Infor Storefront, and end all Infor Distribution A+ Transaction Processors in that base. Refer to *Transaction Processor and Brokers* in Chapter 1 of the Infor Distribution A+ Installation and Software Update Guide and complete all the appropriate steps. When you are completed with the steps, return here and continue.

Note: Backing up your APLUSbbC library and your Infor Distribution A+ file libraries is highly recommended before moving your programs live.

The source and object of any programs with custom modifications should be merged to your modification library (APLUSbbM, APLUSbbMee, or a custom library name of your choosing). For all other programs, merge the source and objects from the Storefront Work Library to the Infor Distribution A+ Patch library, APLUSbbC, manually. If source and/or object already exist in the APLUSbbC (or modification) library, rename the current source/object with a unique prefix or suffix before replacing with the Storefront Work Library source/object.

In order to move those programs that need to live in the base library to APLUSbb, key:

```
CALL APINST/APLUSPGMS PARM('APLUSbb' 'APLUSbbC')
```

where 'bb' is your Infor Distribution A+ Base ID.

18. Due to file additions in the Infor Storefront Update Pack, in order to move your programs live to your base 'bb', the Custom Install program should be run for every file environment in your base.

Add the Infor Distribution A+ Installation Library to your library list, if it isn't already there, by keying:

```
ADDLIBLE APINST
```

For each environment in your Infor Distribution A+ base that will be updated with the new and/or changed files, key in the following command which will run the Custom Install program for the Infor Distribution A+ for Infor Storefront Pack:

```
APSF CSTI
```

Press F4 to prompt, and key in your Infor Distribution A+ base ID (please use capital letters when specifying your base) and your file library APLUSbbFee.

This program will perform the following steps:

- Run the file update for the Infor Storefront Pack install
- Merge new message file IDs to message file DWERR in your patch library
- Copy any new or changed QCPYSRC members to your patch library
- Copy data area APSFLVL to your base library to hold your current installed Storefront pack level
- Update file APLUSBAS in library APLUS with the installed Infor Storefront Pack level

19. The Custom Installation of the Storefront Update Pack is complete.





---

## Appendix B Installing multiple instances of the Infor Storefront Integration Layer for Infor Distribution A+

# B

The Infor Storefront Integration Layer for Infor Distribution A+ installer routine allows for only one installation on a machine. Follow these manual steps if you wish to install multiple instances of the Infor Storefront Integration Layer for Infor Distribution A+ on a server.

1. Stop your Tomcat Service.
2. The latest release of the `storefrontIntegrationServer.war` file is available in the `\War` directory on the Infor Storefront Integration Layer for Infor Distribution A+ ISO. Use Windows Explorer to create a copy of this `storefrontIntegrationServer.war` file. The name of this new file should reflect the second environment (i.e. `storefrontIntegrationServer_Test.war`).
3. Using `Notepad.exe`, modify the `storefront-integration-aplus.properties` file within this new war file, to update it with the URL of the Commerce Gateway to be used with this environment. You will need to extract the `storefront-integration-aplus.properties` file to a temporary directory first, make the changes and then update the war file with the modified file. Follow the instructions outlined in Chapter 6 of this document for information on how to modify this file.
4. Using `Notepad.exe`, modify the `web.xml` file within this new war file, to update it with the name of the new `storefrontIntegrationServer.war` file.

Replace `<display-name>storefrontIntegrationServer</display-name>`

with `<display-name>storefrontIntegrationServer_Test</display-name>`

replacing `storefrontIntegrationServer_Test` with the name of the new war file.

You will need to extract the `web.xml` file to a temporary directory first, make the changes and then update the war file with the modified file.

5. Restart your Tomcat Service to deploy the second Infor Storefront Integration Layer environment (i.e. `storefrontIntegration_Test`).



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# Appendix C Upgrading the Storefront Integration Layer for Infor Distribution A+ to the latest version



## C

There are two options to upgrade the Infor Storefront Integration Layer for Infor Distribution A+ to the latest version.

### Option 1

1. Uninstall the Infor Storefront Integration Layer for Infor Distribution A+ by following the instructions in this document.
2. Follow the instructions in this document to install and configure the Infor Storefront Integration Layer for Infor Distribution A+.

### Option 2

1. Create a temporary directory on your Infor Storefront Integration Layer for Infor Distribution A+ server (i.e. C:\SFTEMP).
2. Copy the storefront-integration-aplus.properties from  
`{Tomcat Installation Directory}/webapps/storefrontIntegrationServer/WEB-INF`  
to the temporary directory (i.e. C:\SFTEMP)
3. Delete the storefrontIntegrationServer.war file from the {Tomcat Installation Directory}/webapps directory.
4. Delete the {Tomcat Installation Directory}/webapps/storefrontIntegrationServer directory.
5. Copy the storefrontIntegrationServer.war file from the \War folder on the Infor Storefront Integration Layer for Infor Distribution A+ ISO to the following directory.  
`{Tomcat Installation Directory}/webapps`
6. Update this storefrontIntegrationServer.war file with the storefront-integration-aplus.properties file that you copied above.
7. Restart Tomcat

