

# **FLEXENGAGE FOR XSTORE V17 INSTALLATION INSTRUCTIONS**

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## PACKAGE CONTENTS

Your plug-in package contains the following:

- The plugin JAR file - xstore-fei-digitalreceipt-17.0.3.0.37\_<build no>-install.jar
- Certificate files for the flexEngage test and production environments:
  - i. **Test:** api-test-02.flexreceipts-lab.cer
  - ii. **Production:** api-02.flexreceipts.cer

Your flexEngage Technical Representative will provide you with information to connect to the flexEngage API endpoint, including your merchant ID and API keys.

## MINIMUM SYSTEM REQUIREMENTS

- XStore v17.0.3
- Windows or Linux

### NOTE IF YOU ARE ON WINDOWS

Since the manual installation process and the post-installation checklist requires extracting and changing/viewing data in files contained in the JAR file archive, we recommend installing and using a tool such as **7Zip** (<https://www.7-zip.org/download.html>) to easily modify the information in the JAR file archive without having to extract and compress the JAR file again.

## INSTALLATION INSTRUCTIONS

### Before You Begin

Make a copy of your system.properties file in case you have to roll back the installation

#### Windows:

```
c:\<xstore-install-dir>\system.properties  
{ex: c:\xstore\system.properties}
```

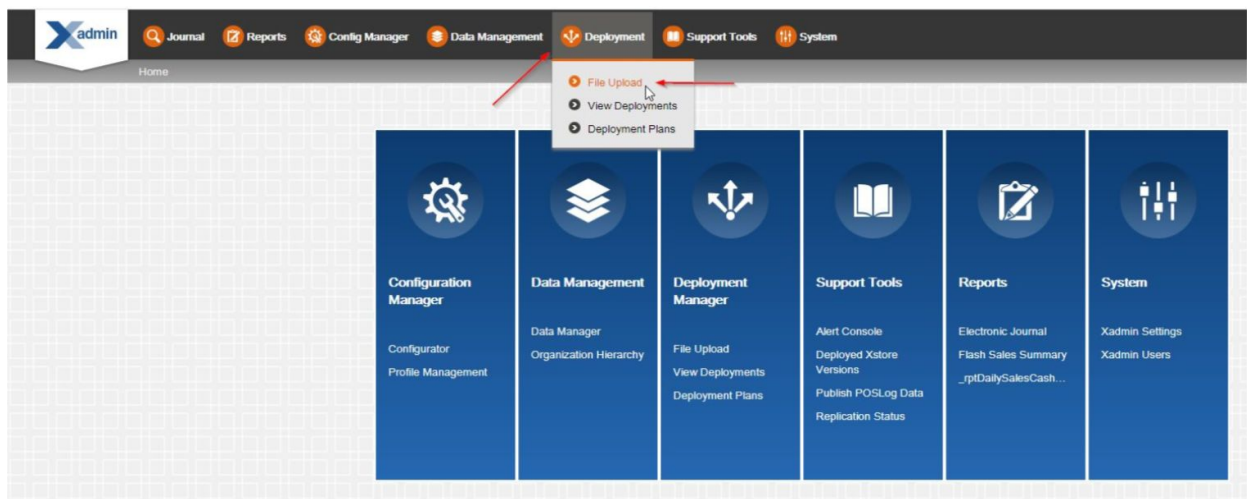
#### Linux:

```
<xstore-install-dir>/system.properties  
(ex: /opt/xstore/system.properties)
```

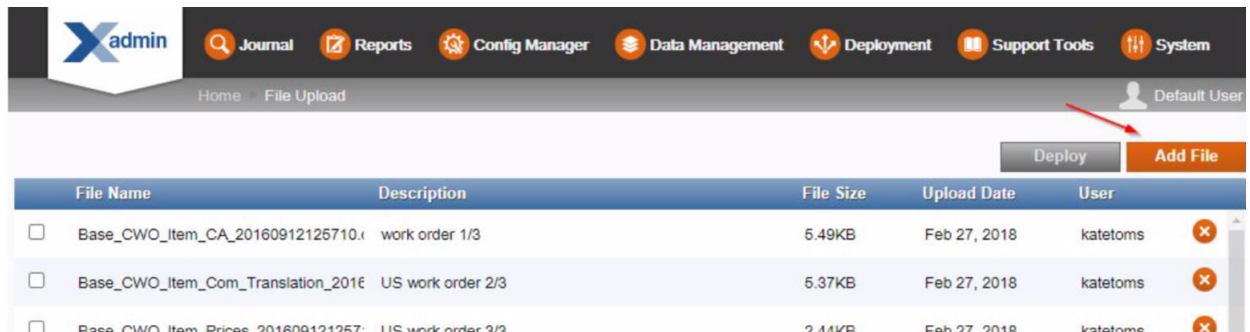
## USING XADMIN

Recommended method if you have XAdmin on your POS

1. Log into your Xadmin GUI.
2. Click on *Deployment* and select *File Upload*.



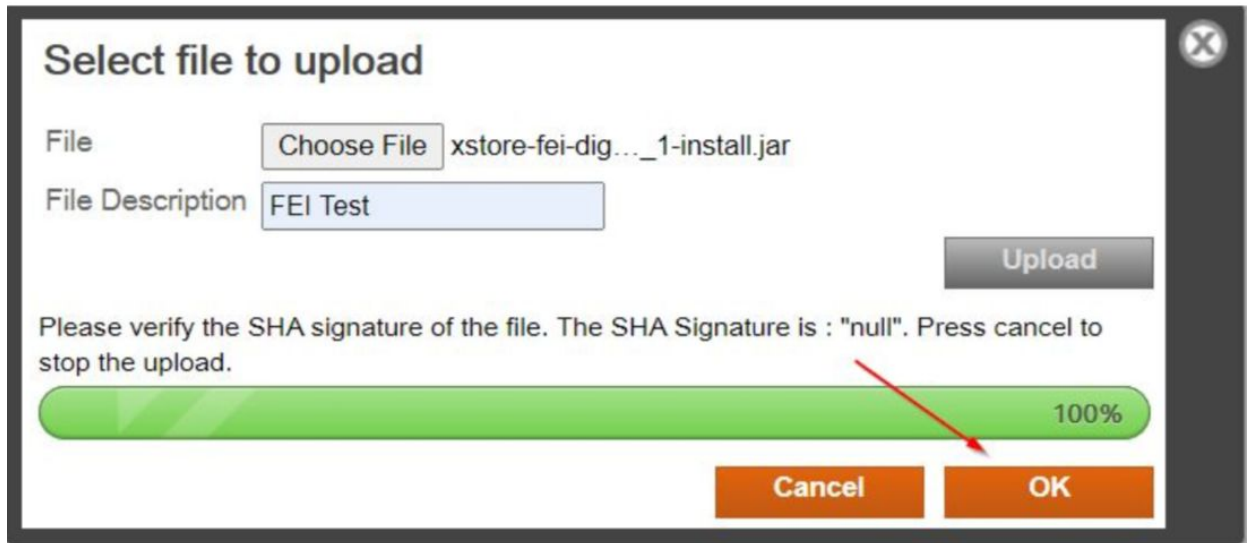
- Click on *Add File*.



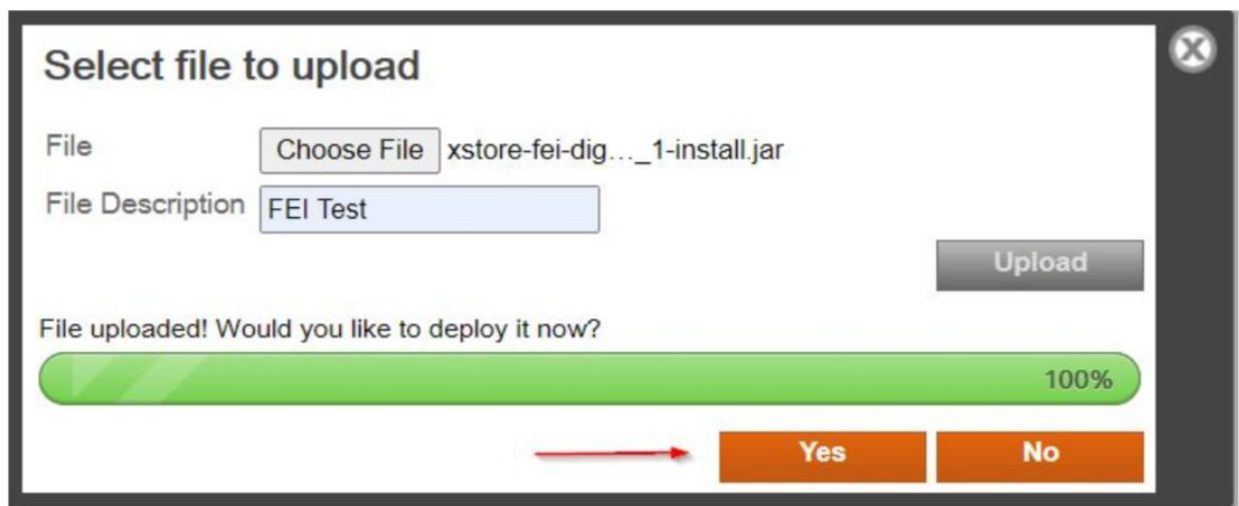
- Select *Choose File* to upload the `xstore-fei-digitalreceipt-17.0.3.0.37_<build no>-install.jar` file. Enter a file description and click on *Upload*.



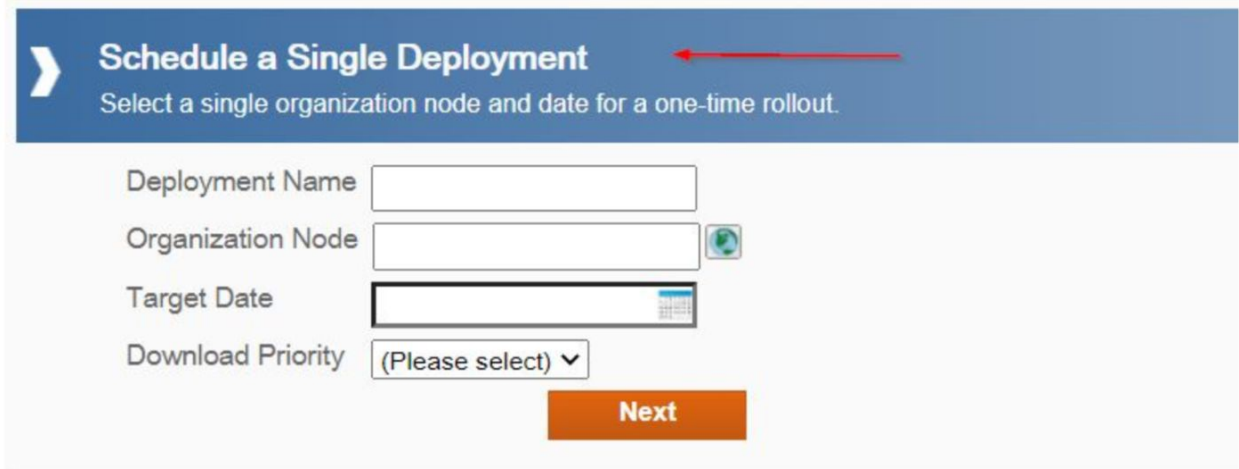
- Select *OK* if you see this message.



6. Select Yes when upload is completed.




7. Depending whether you want to schedule a single deployment or a planned deployment click on the appropriate link. In this example we are going to go with *Schedule a Single Deployment*.



**Schedule a Single Deployment**  
Select a single organization node and date for a one-time rollout.

Deployment Name

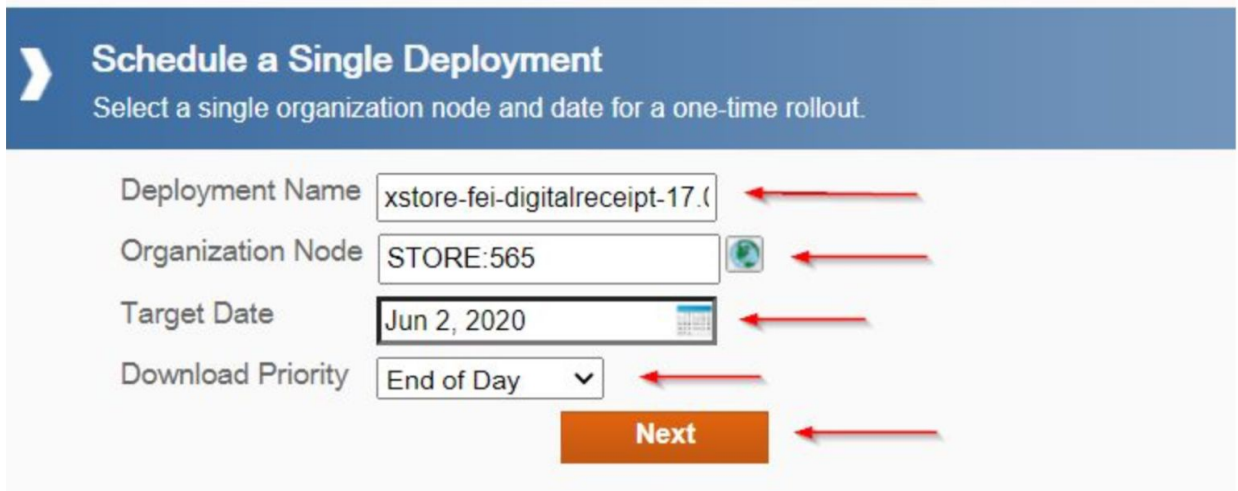
Organization Node  

Target Date


Download Priority (Please select) ▼



**Next**


8. Select the appropriate Organization Node you wish to deploy the installation jar for. Enter the Target Date. Make sure to select *Store Close* as your Download Priority since .jar files can only be deployed at store close and not ad-hoc. After entering the appropriate information, click on *Next*.





**Schedule a Single Deployment**  
Select a single organization node and date for a one-time rollout.

Deployment Name  

Organization Node   

Target Date  

Download Priority End of Day ▼ 

**Next** 

9. Click on *Deploy*.





Deployment Name: xstore-fei-digitalreceipt-17.0.3.0.37\_1.0.4\_1-install Upload  
Deployment Plan: Single Wave  
Total # of Stores: 1

**Waves**

Wave #	Name	Date	Launch Type	Organization Nodes	# of Stores
1	Default Wave	Tue, Jun 2, 2020	Automatic - End of Day	STORE:565	1

**Deploy**

10. Click on Yes.

Are you sure you want to schedule deployment?

**Yes** **No**

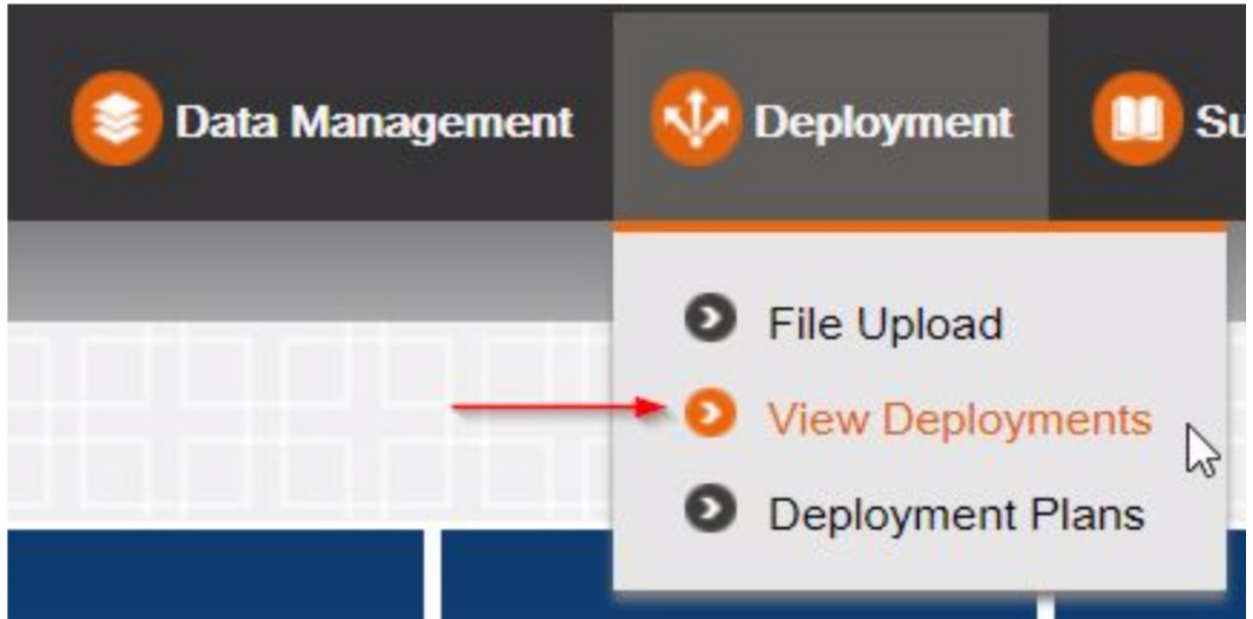
11. Click on OK.

Deployment was scheduled successfully.

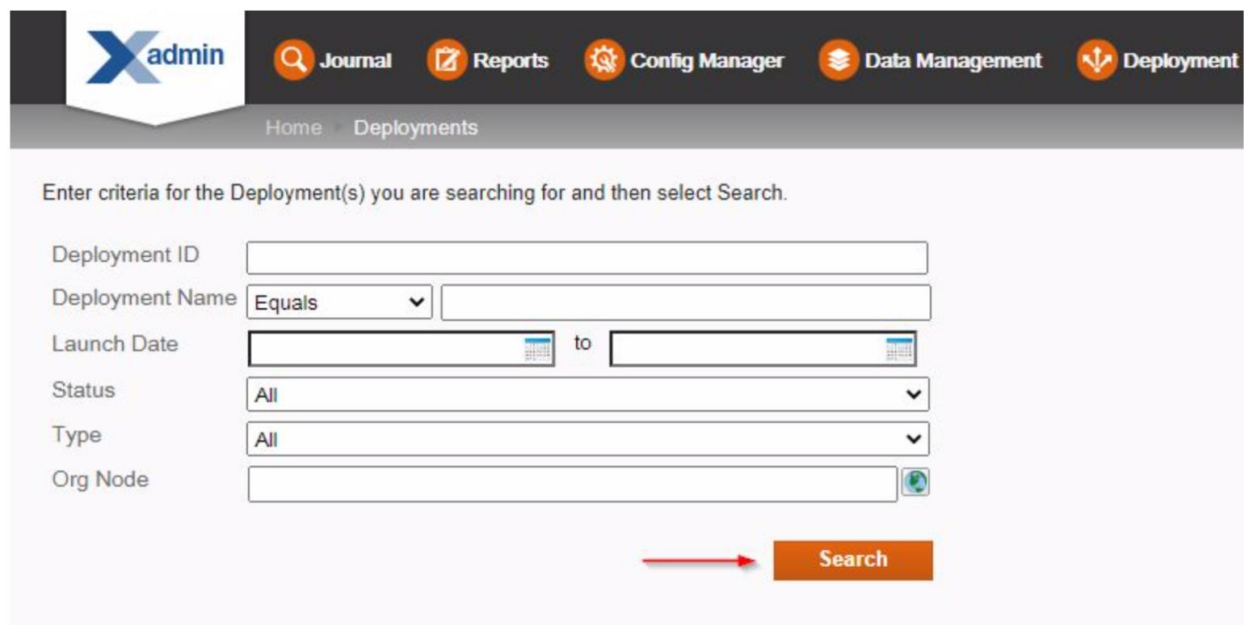
100%

**OK**

12. Click on *Deployment* and *View Deployments*.



13. Click on *Search*



This screenshot shows the 'Xadmin' interface for managing 'Deployments'. The top navigation bar includes links for 'Journal', 'Reports', 'Config Manager', 'Data Management', and 'Deployment'. The breadcrumb trail shows 'Home > Deployments'. Below the navigation bar, there is a search form with the instruction: 'Enter criteria for the Deployment(s) you are searching for and then select Search.' The form includes several input fields: 'Deployment ID', 'Deployment Name' (with a dropdown menu set to 'Equals'), 'Launch Date' (with two date pickers separated by 'to'), 'Status' (with a dropdown menu set to 'All'), 'Type' (with a dropdown menu set to 'All'), and 'Org Node' (with a text input field and a small icon). A red arrow points to the 'Search' button at the bottom right of the form.

14. Click on the ID of the install jar you are deploying.



ID	Name	Type	Plan	Launch Date	Waves Complete	Status
8	xstore-fei-digitalreceipt-17.0.3.0.37_1.0.4_1-install Upload	File Upload	Single Wave	Jun 2, 2020	0 out of 1	Scheduled

15. You will see that the files have not been reported against.

### Summary

Deployment Plan	Single Wave	Create Date	Jun 2, 2020, 11:27:50 PM
Status	Scheduled - Success	Create User Id	1
Stores Targeted	1		
Manifests Downloaded	0		
Security Scope	STORE:565		

[View Details by Store](#)

### Status

	Not Reported	Incomplete	Error	Success
Files Downloaded	1	0	0	0
Files Applied	1	0	0	0

### Files

xstore-fei-digitalreceipt-17.0.3.0.37\_1.0.4\_1-install.jar App update

16. Once file has been deployed you will see that the file counter under the *Success* column will be incremented for both *Files Downloaded* and *Files Applied*.

Status	Not Reported	Incomplete	Error	Success
Files Downloaded	0	0	0	1
Files Applied	0	0	0	1

## MANUAL INSTALLATION

Recommended method if you don't have XAdmin on your POS OR you prefer to manage this manually

1. Stop XStore
2. Extract fei-18.0.1.0.74\_<build no>.zip file from the self extracting jar file  
**xstore-fei-digitalreceipt-17.0.3.0.37\_<build no>-install.jar**
3. Update Xstore . truststore with flexEngage certificate. Certificates can be found on SFTP site.

**NOTE:** You can usually find your **.truststore** in <install dir>\res\ssl directory. You do not have to do this if the **.truststore** already has the certificate previously installed.

**Test:** api-test-02.flexreceipts-lab.cer

**Production:** api-02.flexreceipts.cer

Import the certificate using the below command:

### Windows:

```
keytool.exe -import -file <certificate-path>\<certificate filename>
-alias FEI -keystore .truststore
```

For example:

```
keytool.exe -import -file c:\xstore\res\ssl\<certificate filename> -alias
FEI -keystore .truststore
```

### Linux:

```
keytool -import -file <certificate-path>\<certificate filename> -alias  
FEI -keystore
```

4. Add **.truststore** with flexEngage certificate imported to the `fei-17.0.3.0.37_<build no>.zip` file in the `xstore/updates` directory.

**NOTE:** You only need to do this if you want to replace the existing **.truststore** in the Xstore install.

5. Need to encrypt the `flexengage.digital.receipt.api.key.id` and `flexengage.digital.receipt.api.key.password` properties in **xstore-fei.properties**.

To encrypt:

1. Run `<xstore-install-path>\encrypt.bat` (**Windows**) Or  
Run `<xstore-install-path>\encrypt.sh` (**Linux**)
2. Encrypt the API Key ID provided by flexEngage:
  - Enter the API Key ID into the "value" field.
  - Click on "encrypt" button.

Click the "copy" button to copy the result content to the clipboard.

○ Paste the results into the `xstore-fei.properties` for `flexengage.digital.receipt.api.key.id` property:

■ `flexengage.digital.receipt.api.key.id = <result>`

3. Repeat above step to encrypt the API Key Password provided by flexEngage but paste results instead for `flexengage.digital.receipt.api.key.password` property:

○ `flexengage.digital.receipt.api.key.password = <result>`

6. Edit `updates\xstore-fei.properties` file in `fei-17.0.3.0.37_<build no>.zip` and set the properties as required.

● **flexengage.digital.receipt.api.url** - API URL assigned by flexEngage. Default = None

For example:

flexengage.digital.receipt.api.url= https://api-test-02.flexreceipts-lab.com/ws/  
rest/v1/merchants/<merchant no>/receipts

● **flexengage.digital.receipt.saf.period.secs** - Interval (in seconds) between each SAF polling attempt. Default = 300 seconds (5 minutes) For example:

flexengage.digital.receipt.saf.period.secs= 300

● **flexengage.digital.receipt.saf.retry.days** - Number of days to retry an SAF request before SAF stops attempting to retry sending the digital receipt to flexEngage Default = 7 days

For example:

flexengage.digital.receipt.saf.retry.days= 7

● **flexengage.digital.receipt.timeout.ms** - Number of milliseconds before timing-out API call (so Xstore does not wait too long for a response from flexEngage). Default = 30,000 milliseconds

For example:

flexengage.digital.receipt.timeout.ms= 30000

● **flexengage.digital.receipt.api.retries** - Number of times Xstore should attempt API call before the request gets written to SAF. Default = 3 retries For example:

flexengage.digital.receipt.api.retries= 3

● **flexengage.digital.receipt.enable.digital.receipt** - Indicates if flexEngage digital receipt is enabled. If set to true, email address will be sent to flexEngage as part of the request. If set to false, NO email address will be sent to flexEngage as part of the request. Default = false

For example:

flexengage.digital.receipt.enable.digital.receipt= false

● **flexengage.digital.receipt.enable.printed.offer** - Indicates if flexEngage printed off is enabled. If set to true and the merchant has printed offer enabled in flexEngage, Xstore will print offers if one is returned from flexEngage. If set to false, and regardless of whether merchant has printed offer enabled in flexEngage, Xstore will not print any offers. Default = false For example:

flexengage.digital.receipt.enable.printed.offer= false

● **flexengage.digital.receipt.enable.simulated.eftlink** - Indicates if EFTLink is being run in simulated mode. If set to true, if missing credit card number from Simulated EFTLink response the plug-in will mock credit card number information. If set to false, no credit card data will be manipulated. Default = false

For example: flexengage.digital.receipt.enable.simulated.eftlink= false

● **flexengage.digital.receipt.api.key.id** - The API Key ID proved by flexEngage to call the Digital Receipt API. Default = None

For example:

flexengage.digital.receipt.api.key.id= <flexEngageAPIKeyID>

● **flexengage.digital.receipt.api.key.password** - The API Key Password provided by flexEngage to call the Digital Receipt API. Default = None

For example:

flexengage.digital.receipt.api.key.password= <flexEngageAPIKey Password>

7. Edit fei-configure.bat in fei-17.0.3.0.37\_<build no>.zip so it calls the correct Java JRE:

● Make sure that the java.exe path is the same one used by configure.bat. If not, change the path to what your Xstore install is using.

For Example:

○ c:\jre\bin\java.exe ...

8. Edit the build.properties in xstore-fei-digitalreceipt-17.0.3.0.37\_<build no>-install.jar and update the properties accordingly.

#### Windows:

install.dir=c:\xstore os.ext=.bat

**NOTE:** If Xstore was not installed in c:\xstore, you wish to change the install.dir to point to the directory Xstore was installed in.

#### Linux:

If installing Linux you will need to make the following changes:

install.dir=<xstore-install-path>

os.ext=.sh

#### Properties Explained:

**db.platform:** Valid values are "mssql" or "oracle". Defaulted to "mssql". If running MS SQL Server as database, set property "mssql" if running Xstore on Oracle database, set property to "oracle"

**db.host:** Hostname of Xstore local database. Defaulted to "localhost".

**db.name:** Xstore Database name. Defaulted to "xstore".

**db.username:** Encrypted Xstore database username. Suggest encrypting the "pos" user since that is the user that is used by Xstore to access the database. Make sure that "pos" has permissions to create a table. See Step 5 for instructions on how to encrypt the username.

**db.password:** EncryptedXstoredatabasepassword.SeeStep5forinstructions on how to encrypt the password

**dtv.CustomerId.salt:** dtv.CustomerId.saltpropertysetinXstore'ssystem.properties.

**restart.xstore:** Indicates if you want Xstore to automatically start at deployment. Valid values are "true" or "false". Defaulted to "false".

9. Execute self extracting jar to copy the plug in jars and update appropriate properties.
  - Open command prompt from self extracting jar location
  - Run the below command:  

```
java -jar xstore-fei-digitalreceipt-17.0.3.0.37_<build no>-install.jar
```
10. Confirm that the product installed (see Post-Deployment Checks (for Either Instalaltion)
11. Run XStore

## POST-DEPLOYMENT CHECKS (FOR EITHER INSTALLATION)

To confirm that the installation worked correctly, perform the following checks:

1. The jar files **fei-config.jar**, **fei-pos.jar** and **fei-receipts.jar** should have been copied to the <xstore-install-dir>\lib directory.
2. If you added a copy of the .truststore in the zip file, the existing .truststore in <install dir>\res\ssl was renamed with a timestamp and the .truststore in the zip file copied over.
3. The files **xstore-fei.properties** and **xstore-fei-prop-map.xml** should have been copied to the <xstore-install-dir>\updates directory.
4. The FEI Digital Receipt REST Service credentials would have been added to the <xstore-install-dir>\system.properties file:
  - a. flexengage.digital.receipt.api.key.id = *value*
  - b. flexengage.digital.receipt.api.key.password = *value*
5. These properties would have been set in <xstore-install-dir>\lib\fei-config.jar\flexengage\SysConfig.xml:
  - a. FlexEngage--DigitalReceipt--SafRetryDays
  - b. FlexEngage---DigitalReceipt—TimeoutMs
  - c. FlexEngage---DigitalReceipt—ApiRetries
  - d. FlexEngage---DigitalReceipt—EnableFlexEngageDigitalReceipt
  - e. FlexEngage---DigitalReceipt—EnableFlexEngagePrintedOffer
  - f. FlexEngage---DigitalReceipt---EnableSimulatedEftlink
6. These properties would have been set in lib\fei-config.jar\flexengage\ServiceHandlers.xml:
  - a. TargetUri

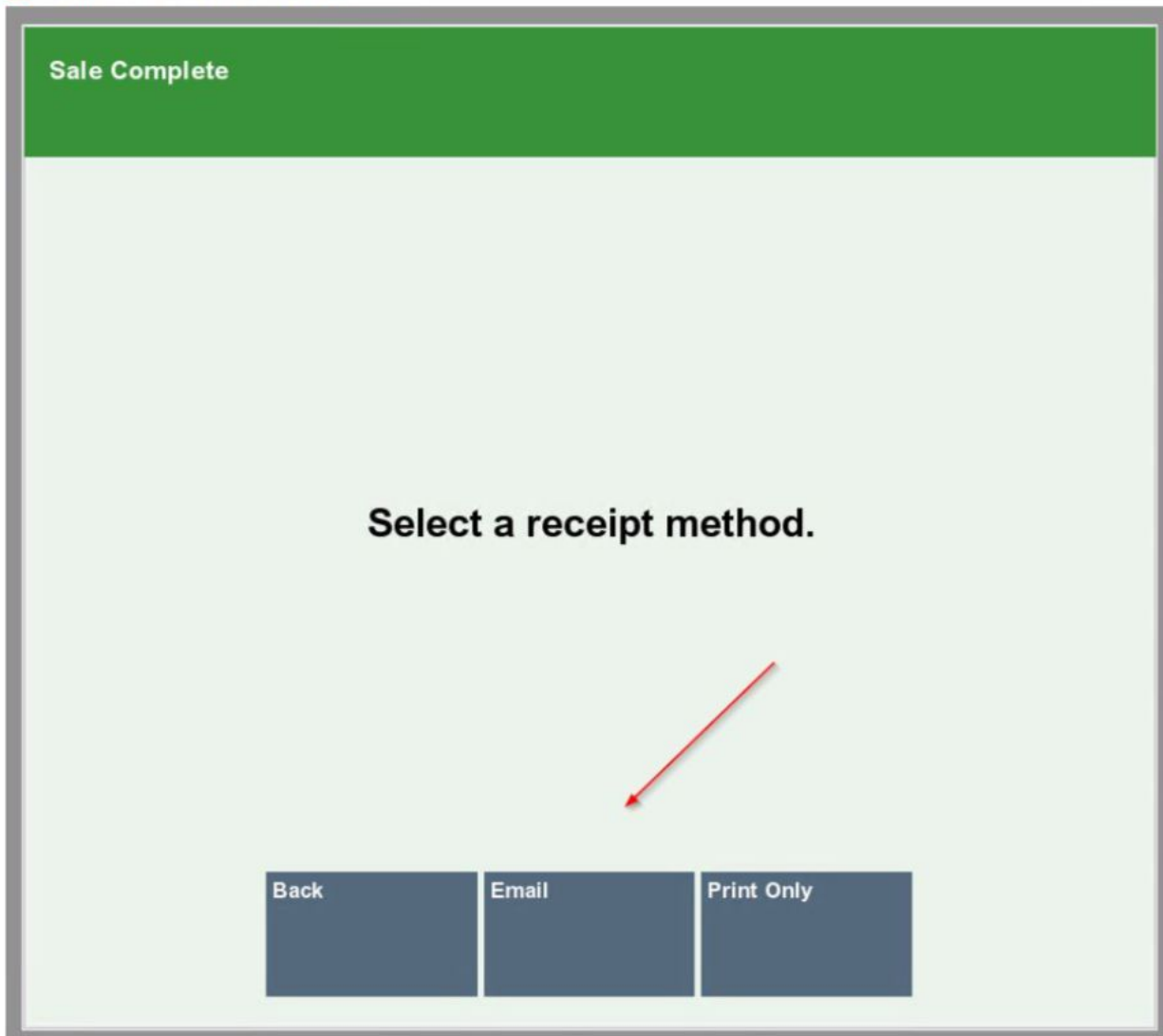




**flexEngage**  
GO BEYOND THE SALE

- b. ConnectTimeout
- 7. This property would have been set in lib\fei-config.jar\flexengage\spring\fei-workers.xml:
  - a. periodSeconds
- 8. The “x store.config.path.global.extensions” property in <xstore-install-dir>\configPath.properties would have had the path “:flexengage” appended to it:
  - a. xstore.config.path.global.extensions=:**flexengage**
- 9. If using flexEngage Digital Receipt Email functionality, you will need Xstore to display “Email” or “Print Only” prompt:

Oracle Retail Xstore Point of Service



You have to make sure that the following has been set to true in your SysConfig.xml.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?> <SysConfig  
xmlns="http://micros.com/xstore/config/settings">
```

```
<Setting name="Email---Receipt---SendEmailReceipts">true</Setting> </SysConfig>
```

This is defaulted to false when you install Xstore.

10. The following 3 libraries should be in your <xstore-install-path>\lib directory:
  - a. fei-config.jar
  - b. fei-pos.jar
  - c. fei-receipts.jar

## UNINSTALLATION INSTRUCTIONS

1. Reinstall the copy of the system.properties you made in Pre-release Step 2 back into the Xstore install directory.
2. Delete the following files:
  - a. <xstore-install-path>\fei-configure.bat (**Windows**)  
or  
<xstore-install-path>\fei-configure.sh (**Linux**)
  - b. <xstore-install-path>\lib\fei-config.jar
  - c. <xstore-install-path>\lib\fei-pos.jar
  - d. <xstore-install-path>\lib\fei-receipts.jar
  - e. <xstore-install-path>\updates\xstore-fei-prop-map.xml
  - f. <xstore-install-path>\updates\xstore-fei.properties
3. If you replaced the <install dir>\res\ssl\truststore with the one in the zip file, delete the .truststore in <install dir>\res\ssl and rename latest truststore backup (<yyyymmddhhmissms>.truststore) to .truststore.