# Web Enablement Application (WB)
## Configuration Guide

**Please follow this process AFTER
confirming that the WB application has been
loaded on your iSeries**

## Non-Disclosure Statement

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# System i5 system requirements

The following minimum requirements must be met to complete the Web Enablement (WB) application installation.

- You must sign on with a Security Officer user ID.

- The Apache Web server must be installed on the System i5. The IBM product number for your IBM OS level is listed below.

   o V5R4M0 should be 5722DG1 *BASE IBM HTTP Server

   o V6R1M0 should be 5761DG1 *BASE IBM HTTP Server

   o V7R1M0 should be 5770DG1 *BASE IBM HTTP Server

   Follow these steps to run the following command on your System i5 to see if the Apache Web server is installed.

   1. On the command line type **go licpgm**.

   2. Press **Enter**.

   3. Select **option 10 (Display installed licensed programs)** and look for the product that correlates to your IBM OS level.
   **Note**: If you do not have this product you will need to acquire it from IBM to use the WB product.

- Cryptographic support must be installed on the System i5.

- **Note:** The IBM product number for your IBM OS level is listed below.

   o V5R4M0 should be 5722NAE *COMPATIBLE Network Authentication Enablement

   o V6R1M0 should be 5761NAE *COMPATIBLE Network Authentication Enablement

   o V7R1M0 should be 5770NAE *COMPATIBLE Network Authentication Enablement

   Follow these steps to run the following command on your System i5 to see if one of these products is installed.

   1. On the command line type **go licpgm**.

   2. Press **Enter**.

   3. Select **Option 10 (Display installed licensed programs)** and look for the product number that correlates to your IBM OS level.
   **Note**: If you do not have one of this product you will need to acquire it from IBM to use the WB product.

- System i5 must be at a minimum operating system level of V5R4.

# WB load/installation instructions

Follow these instructions to install the Web Enablement application.

1.  The Web Enablement (WB) application must be installed using the Superion load process. To verify that the application is loaded on the command line type the following:

    **WRKOBJ   OBJ(\*ALL/WBINSTALL)   OBJTYPE(\*PGM)**

2.  Press **Enter**.

    **Result**: If the program object **WBINSTALL** is found, WB loaded and you can continue.

    **Note**: If the **WBINSTALL** program was not found, you cannot continue until the WB application is installed on the System i5 using the load process.

    **Note:** This program is usually found in HTEPGM, which is the standard naming convention for the Superion environment for programs, and the data library is usually HTEDTA.

3.  On the command line type the following:

    **EDTLIBL**

4.  Press **Enter**.

5.  Add the following libraries in this order.

    - **QTEMP**
    - **HTEDTA**
    - **HTEPGM**
    - **HTESRC**
    - **QGPL**

    **Note**: If you are running a non-standard naming convention, the program, source, and data libraries may have different library names. In the case of a non-standard naming convention you must use those libraries instead of the standard libraries. Replace the standard libraries in the instructions below with your non-standard libraries.

6.  Superion must have an open port on your System i5. The default for the WB application is port 81. To determine if port 81 is available, on the command line type the following.

    **NETSTAT**

7.  Press **Enter**.

8.  Select **Option 3 (Work with TCP/IP connection status) or (Work with IPv4 connection status)**.

9.  Press **F14 (Display port numbers)**.

10. Press **F13 (Sort by column)**.

11. Select **Local Port**.

12. Page down to determine if 81 is already in use.

    *   If it is in use you must select a port number other than 81.

    *   If 81 does not display, it is automatically the default during installation.

13. Run the installation program to fully load the WB application.

    **Note**: You must have the port number that will be used. You will be required to enter it during the following process.
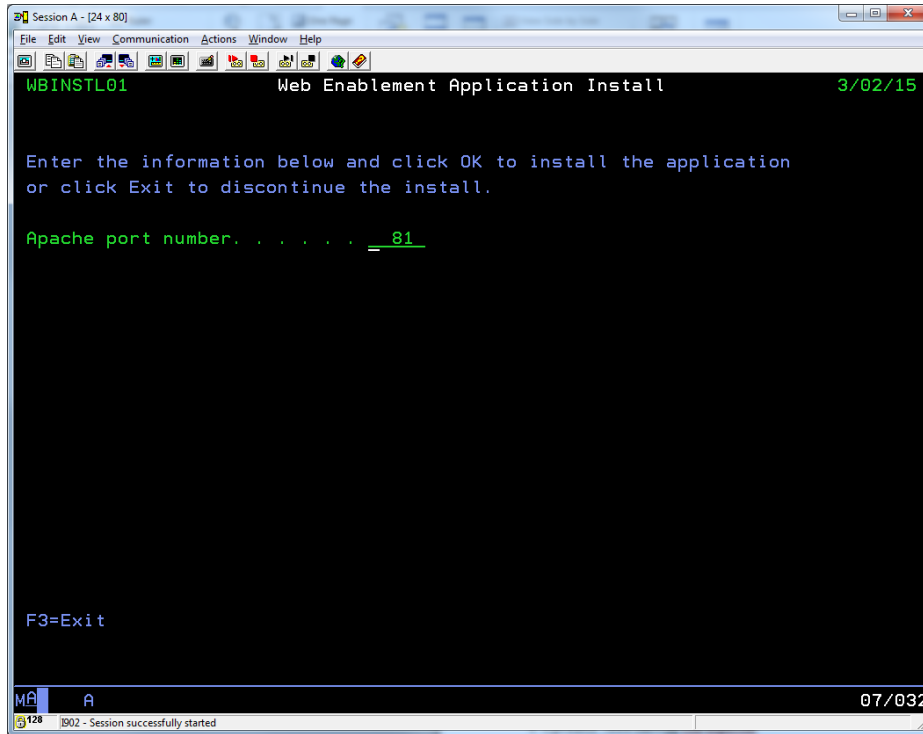
14. On the command line type the following:

    **CALL  PGM(WBINSTALL)**

15. Press **Enter**.

    **Note**: If the WB application is already installed the message "Library RXS already exist, program WBINSTALL is not required to run" displays. If this message displays then nothing else is required, the WB application is installed.

    **Result**: The following screen displays.

    ```
    Session A - [24 x 80]
    File  Edit  View  Communication  Actions  Window  Help

    WBINSTL01              Web Enablement Application Install        3/02/15


    Enter the information below and click OK to install the application
    or click Exit to discontinue the install.

    Apache port number. . . . . .    81




    F3=Exit



    MA      A                                                         07/032
    128    I902 - Session successfully started
    ```

16. Do you plan to use a port other than 81?

    **If yes**: Enter the other port number in the *Apache port number* field and proceed to **step 17**.

    **If no:** Proceed to **step 24**.

17. Press **Enter** to continue with the installation.

    **Result**: The installation should run for a short time. The message "The Web enablement (WB) application has been installed" displays. You may have to scroll down through several messages but this should be the last message on the screen.

18. On the command line type the following:

 **ENDTCPSVR  SERVER(*HTTP)  HTTPSVR(XML4RPG)**

19. Press **Enter.**

20. Type the following on a command line:


 **EDTF '/www/xml4rpg/conf/httpd.conf'**

21. Press **Enter.**

 **Result**: The line "Listen *:0081" displays. This line should be about the second line down within the file display.

22. Change the port number, 0081, to the port number that you used instead of 0081.

23. Press **F3** twice to save the file and exit.

24. On the command line type the following:

 **STRTCPSVR  SERVER(*HTTP)  HTTPSVR(XML4RPG)**


25. Press **Enter** and proceed to **step 26**.

 **Result**: If you are using a port other than 81, you have completed the WB installation and need to test the installation.


26. If you are using port 81, enter **81** in the *Apache port number* field.


27. Press **Enter** to continue with the installation.

 **Result**: The installation should run for a short time. The message "*The Web enablement (WB) application has been installed*" displays. You may have to scroll down through several messages but this should be the last message on the screen.

# Obtaining the WB License Key

You must now obtain a valid license key to make the WB application functional. There are two screen shots, the display machine information and the logical partition number, we need to receive to order the license key. Run the following instructions to retrieve these screens.

1. On the command line type the following:

   **RMVLIBLE    LIB(RXS)**

2. Press **Enter.**

3. On the command line type the following:

   **ADDLIBLE    LIB(RXS)**

4. Press **Enter**.

5. On the command line type the following:

   **RXS/DSPMCHINF**

6. Press **Enter**.

7. Take a screen shot of this page and attach it to an email.

8. On the command line type the following:

   **RMVLIBLE   LIB(RXS)**

9. Press **Enter**.

10. On the command line type the following:

    **GO   SERVICE**

11. Press **Enter**.

12. Take **Option 6 – Display Service Registration Information.**

13. Press **Enter**

14. Take a screen shot of this screen and attach it to the same email.

15. Send the email with the two screen shots to Distribution@superion.com or fax it to 407-304-1005. Once the information is received a new key will be ordered and returned to you via email with your WB license key.

## Applying the License Key

To apply the license key Run the following instructions.

1. On the command line type the following:

   **RMVLIBLE    LIB(XML4RPG)**

2. Press **Enter**.

3. On the command line type the following:

   **ADDLIBLE    LIB(XML4RPG)**

4. Press **Enter.**

5. On the command line type the following:

   **APYLIC   LICKEY(XXXXX)   PRODUCT(RXS)**
   Replace the **XXXXX** with your license key from the returned email.

6. Press **Enter.**

7. When you see the following message, enter a **"Y"** and press **Enter.**

   **Replace existing license for RXS (Y/N)?**

## Add command to startup program

This will ensure XML4RPG will run on iSeries IPL.

Customers using the XML4RPG (WB) product should make sure the below cmds are in the system startup program (QSTRUPPGM).  NOTE: IF you are unfamiliar with how to add commands to your system startup program, please reach out to your IBM Support contact.

```
STRTCPSVR  SERVER(*HTTP) HTTPSVR(XML4RPG)
MONMSG MSGID(CPF0000)
```

## Testing the Connection

You are now ready to test the installation of the WB product. In order to test you will need the IP Address for the iSeries.

1. Type the following on a command line:

   **NETSTAT**

2. Press **Enter**.

3. On the **Work with TCP/IP Network Status** screen, select **Option 1 - Work with TCP/IP interface status**.

   Note: If you are on IBM OS Versions V6R1M0 or V7R1M0 your **Option 1**will be **Work with IPv4 interface status**.

4. On the **Work with TCP/IP Interface Status** screen, the address that displays in the **Internet Address** column is your IP address.

   **Note**:  If more than one address displays, your organization determines which IP address to use.

5. Press **F3**.

6. To test if the installation is up and running properly, open an Internet browser.

7. Enter the string   **http://XXX.XXX.XXX.XXX:81/xml4rpg/rxs1**   replacing **XXX.XXX.XXX.XXX** with your System i5 IP address.

8. Press **Enter**.

   **Result**: The message "**<output myAttr="static value">I love home improvement plumbing. Especially when it leaks after you turn on the water!</output>** displays.

   If you see the above message then the WB application is completely installed and is operating correctly.