**QUANTRAX GUI Install.**

**Requirements**

* QServer is built to specs.(See the QServer build doc for details)
* Websphere Application Server (WAS) is running and the HTTPAdmin and Console can be accessed. Quantrax will need the addresses for the HTTPAdmin and Console.

HTTPAdmin Example: <http://[iSeries]:2001/HTTPAdmin>

Console Example: <http://[iSeries]:9060/ibm/console>

*Note: The ports may be different. This information is provided by the person who installed the WAS Instance*

**Downloading the RMExGui files.**

All the files needed for the GUI can be found at the QUANTRAX FTP Site, clients will need to request these files.

**GUI Install Checklist**

**This is a check list of the items listed in the install instructions. Once you have completed each of these item the GUI will be working including Silverlight for notes and Discriptions Codes.**

**APIs installed**

|  |  |  |
| --- | --- | --- |
| **ITEM** | **Complete** | **Notes** |
| API GUI\_APIS |  |  |

**GUI Configuration file updates and RMEx GUI .ear file install :** Requires Websphere Application Server to be installed on the Iseries.

|  |  |  |
| --- | --- | --- |
| **ITEM** | **Complete** | **Notes** |
| applicaltion.hap |  |  |
| Main.hco |  |  |
| quantraxDialog.js |  |  |
| lxgwfunctions.js |  |  |
| DescriptionCodeComponent.xap🡪 ServiceReferences.ClientConfig |  |  |
| RMExAcctDetComponent.xap 🡪 ServiceReferences.ClientConfig |  |  |
|  |  |  |
| Install RMEx GUI ear file |  |  |

**GUI Checklist for QServer Software**: Requires QServer minimum requirements to be fulfilled

**Silverlight Server components installed on QServer**

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | | **Complete** | **Notes** |
| GUI\_APIS |  | | API Installed in **C:\inetpub\wwwroot** |
| GUI Services - Silverlight |  | | Software install |
| RMEx Site Control Panel |  | | Instructions in download folder |
| **clientaccesspolicy** |  | | Added to **C:\inetpub\wwwroot** |

**Events Service installed on QServer**

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | | **Complete** | **Notes** |
| RMEx-EVENTs |  | |  |

**Dashboard installed on QServer**

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | | **Complete** | **Notes** |
| RMEx Dashboard |  | |  |
|  |  | |  |

**Installing the API GUI\_APIS (NOTE – Would suggest doing last. This was cut and past form Kasuns emails and has not be tested by support. May need Nelsons help. Needs to be documented.)**

For Silverlight to be able to run you MUST add the GUI API to the Qserver and your iSeries,

* Download GUI\_APIS from the FTP folder ‘/quantrax/QuantraxReleases/RMEx GUI API/GeneralAvaliblity/’ to SCMOD/@@RCV on the client’s iSeries.(GUI\_APIS is the package that contains all the APIs that are required for RMXx GUI, including Events)
* Use the option on the iSeries to receive modifications to the client system.
* Once the changes are received, you will find the objects COM\_SERV and COM\_SERV2 in the library SCMOD.
* Copy the above mentioned two objects to SCLIB library and delete the objects that are in SCMOD.
* Run the following commands on the command line to create the required procedures.

1. CREATE PROCEDURE SCLIB/API\_CEVEN(INOUT PARAM1 CHAR ( 20),  
   INOUT PARAM2 CHAR ( 4096)) LANGUAGE RPGLE NOT DETERMINISTIC NO   
   SQL CALLED ON NULL INPUT EXTERNAL NAME SCLIB/API\_CEVEN PARAMETER  
   STYLE GENERAL WITH NULLS
2. CREATE PROCEDURE SCLIB/API\_HCA(INOUT PARAM1 CHAR ( 20),  
   INOUT PARAM2 CHAR ( 4096)) LANGUAGE RPGLE NOT DETERMINISTIC NO  
   SQL CALLED ON NULL INPUT EXTERNAL NAME SCLIB/API\_HCA PARAMETER  
   STYLE GENERAL WITH NULLS

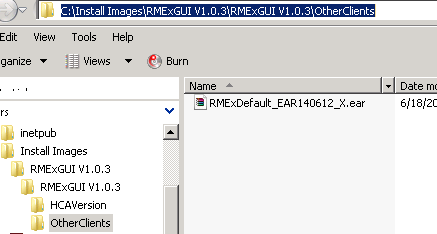
* You are all set with the APIs

**Deploying the GUI by Modifying the .ear file.**

The EAR file (Example: RMExDefault\_EAR140612\_X.**ear**) is a compressed file (simular to a zip file) that contains other files needed to run the GUI. The first thing you will need to do is download a current copy of the EAR file using the location provided by Quantrax. Once the EAR file is downloaded, changes within the EAR file must be made reflecting your companies local ipaddress.

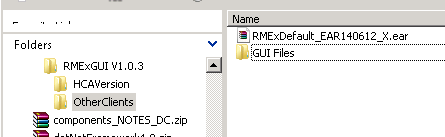
***Note:*** *Changing the EAR file and uploading it to the WAS server can be done from any PC. It is convenient to do this from the QServer (Events/Dashboard Server), so any files related to the GUI and other Quantrax software are easlily located in one place.*

* Download and extract the RMExGUI Vx.x.x.zip GUI file
* Once extracted follow the folders down till you get to the EAR file. (In this example the .ear file is in “RMExGUI V1.0.4->RMExGUI V1.0.3->OtherClients”)



Example: RMExDefault\_EAR140612\_X

* Within the newly created folder containing the .ear file create a new folder called “GUI Files”. This is where you will be saving files as you are editing them. It may be helpful to have this folder open and accessible.

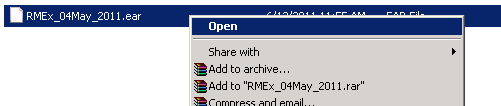


**Assocating the .ear file with WinRAR:**

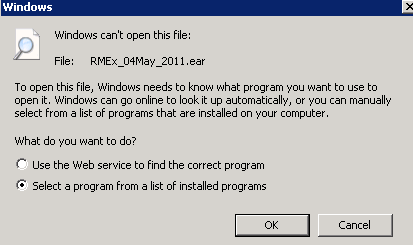
**Before starting, download and install WinRAR if it is not currently installed**. WinRAR can be downloaded from http://www.win-rar.com/download.html

*Note: If you have already assocated the .ear file with WINRar, you can skip to the configuring of the .hap file.*

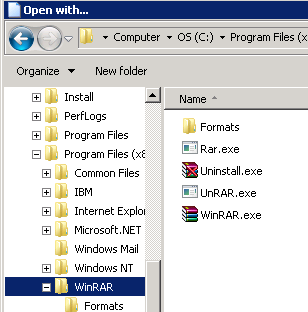
* Right click on the **EAR** file and select the **Open** option:



* Choose “Select a program…” and click “OK”



* Browse to WinRAR under C:\program files (x86) and select “WinRAR.exe”



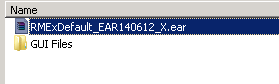
* Now you can double click on the EAR file (RMEx\_XXXX.ear) and it will open in WinRAR

**Changing the Application.hap file**

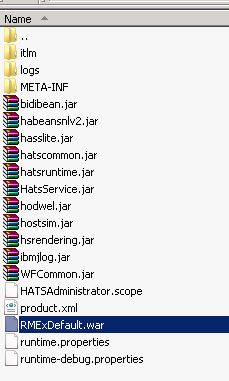
The **application.hap** file needs to be changed to reflect IP address where the Websphere Application Server (WAS) is installed, most likely the iSeries.

As shown in the examples below, this file is located in RMExDefault\_EAR file🡪 RMExDefault.war🡪 WEB-INF Folder 🡪profiles folder 🡪 application.hap

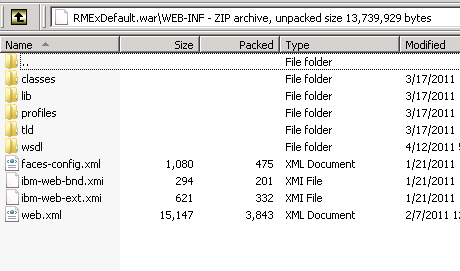
* Double click the .ear file to bring it up in WinRAR



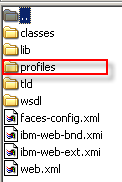
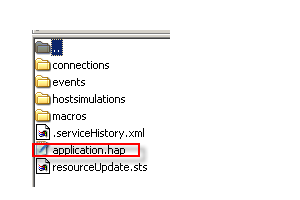
* Double click on the **RMExDefault.war** file. If the .war file does not open, use the previous steps above to associate the .war file with WinRAR



* Click on the **WEB\_INF** folder:



* Click on the **profiles** folder:

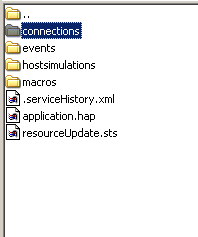
* **Now you can see the application.hap file.** 
  + Save the application.hap file to your GUI File folder you already created.
  + Open the file in Notepad (you can drag the file in to an open notepad) and search for “hostname” and change the value to the IPAddress where the WebSphere Application Server is install (Most likely your iSeries).



* + Save the file
  + Copy the application.hap file back to the “profiles” folder
  + Exit completely out of the RAR saving the RAR at each dialog popup.

**Main.hco changes –** This file uses the IP Address of your iSeries or the server running WAS.

Now we are going to change the “main.hco” file. To get to this file again open the RMExDefault\_EAR file🡪 RMExDefault.war🡪 WEB-INF Folder 🡪profiles folder 🡪 connections🡪 main.hco

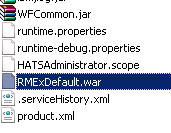
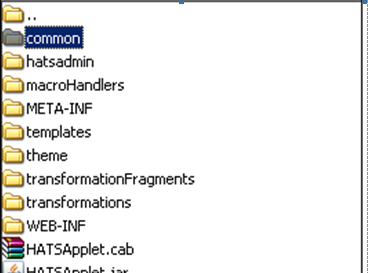
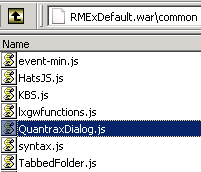
* Copy this file to your GUI File folder
* Open the file with Notepad
* Search for HOST.



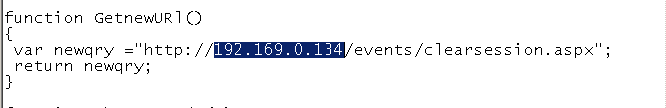
* **Now change this file with the IP address of the iSeries you will be using** and save your changes. ***This is important to note if you have installed WAS on a PC server instead of the iSeries since this would be a different IP address for this file only.***
* Save and copy the file back to its original location
* Exit completely out of the RAR saving the RAR at each dialog popup.

**quantraxDialog.js Changes:** This file uses the IP address of the QServer (PC Server) where the **EVENTS** and the **DASHBOARD** is installed. This file will be used by RMEx Events and the GUI Dashboard.

Access the quantraxDialog.js file by going to the RMExDefault\_EAR 🡪 RMExDefault.war 🡪 **common** folder🡪 QuantraxDialog.js

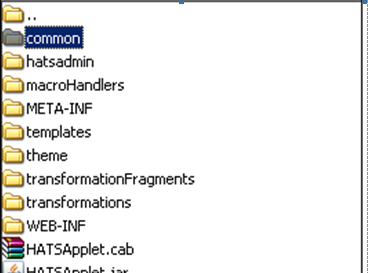
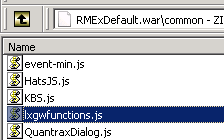
* Look for the **quantraxDialog.js** file
* Copy this file to your GUI File folder
* Open the file with Notepad
* Search for “function GetnewURl()”

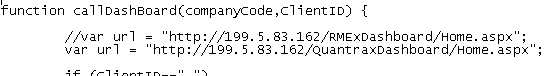


* Change the IP address to that of the PC Server where the **EVENTS** and the **DASHBOARD** is installed
* Save and copy the quantraxDialog.js file back
* Exit completely out of the RAR saving the RAR at each dialog popup.

**lxgwfunctions.js Changes:** Uses the Qserver IP Address (Or the IP Address of the server where the Dashboard / Events services are running).

Access the quantraxDialog.js file by going to the RMExDefault\_EAR 🡪 RMExDefault.war 🡪 **common** folder🡪 **lxgwfunctions.js**

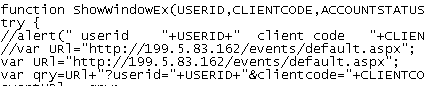
*  
* Look for the **lxgwfunctions.js** file
* Copy this file to your GUI File folder
* Open the file with Notepad
* search for: “function callDashBoard(companyCode)”
* This is for the Management Dashboard on the GUI. Change IPaddress to the Server where the Dashboard server software is running. (Change both IP addresses)



* Now Search for **“**function ShowWindowEx(USERID,CLIENTCODE,ACCOUNTSTATUS,

DESCRIPTIONCODES,LEGALFLAG,LINKEDBALANCE,ACAT,CASEno,COMPANYno)”

* This is for the Events within the GUI. Change IPaddress to the Server where the Dashboard server software is running. (Change both IP addresses)

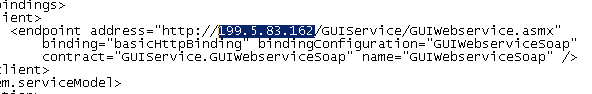


* Save the file and copy the **lxgwfunctions.js** file back
* Exit completely out of the RAR saving the RAR at each dialog popup.

**DescriptionCodeComponent.xap-> ServiceReferences.ClientConfig Changes:** Uses the *QServer IP Address*, and is used to point the Silverlight to the Qserver.

Access the ServiceReferences.ClientConfig file by going to the RMExDefault\_EAR 🡪 RMExDefault.war**🡪 DescriptionCodeComponent.xap🡪 ServiceReferences.ClientConfig**

* Look for the ServiceReferences.ClientConfig file
* Within the GUI File folder create a new folder called “**DescriptionCodeComponent.xap” and** Copy the ServiceReferences.ClientConfig file to your GUI File folder
* Open the file with Notepad



* Look for “<endpoint address” and change the IP address to the QServer.

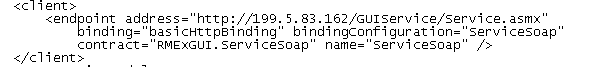
**NOTE:** This IP address is pointing to where the “GUI Web services” have been installed, which is generally the QServer. This is a required services needed for running Silverlight. If you installed the “GUI web services” on a different server, other than the QServer, then that is the IP address you will want to put here.

* Copy the **ServiceReferences.ClientConfig** file back
* Exit completely out of the RAR saving the RAR at each dialog popup.

**RMExAcctDetComponent.xap -> ServiceReferences.ClientConfig Changes**: This file is used to point the Silverlight to the Qserver. Silverlight is used in notes and Discription codes on the account detail screen, for Silverlight to work it requires a servise to run on a separate server other then the iSeries.

Access the ServiceReferences.ClientConfig file by going to the RMExDefault\_EAR 🡪 RMExDefault.war🡪 **RMExAcctDetComponent.xap** 🡪 **ServiceReferences.ClientConfig**

* Look for the RMExAcctDetComponent.xapfile
* Within the GUI File folder create a new folder called “**RMExAcctDetComponent.xap”** and Copy the ServiceReferences.ClientConfig file to your GUI File folder
* Open the file with Notepad
* Look for “<endpoint address” and change the IP address to the QServer.



**NOTE:** This IP address is pointing to where the “GUI Web services” have been installed, which is generally the QServer. This is a required services needed for running Silverlight. If you installed the “GUI web services” on a different server, other than the QServer, then that is the IP address you will want to put here.

* Make the change and copy the **ServiceReferences.ClientConfig** file back
* Exit completely out of the RAR saving the RAR at each dialog popup.

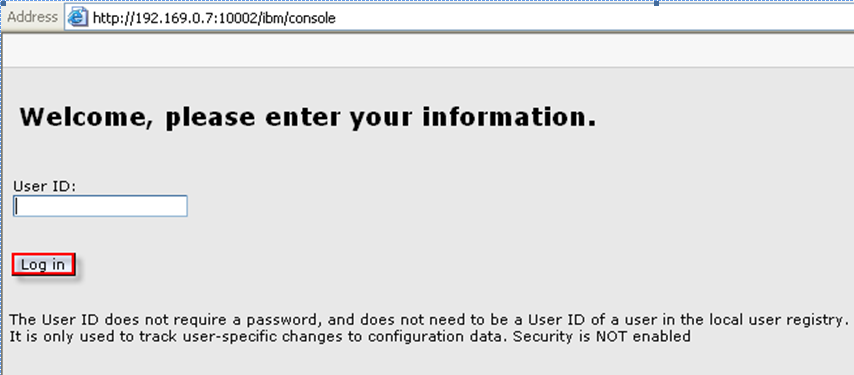
**Once you have made these changes you are now ready to upload them to the Websphere Application Server.**

**Installing the GUI Application on the WebSphere Application Server (WAS) Version 6.1 on the iSeries**

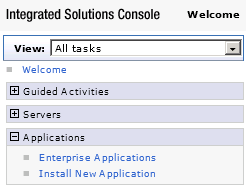
* **Log into the Integrated Solutions Console.** Use Internet Explorer to open the Administration Console for WAS running on your iSeries. Use the following format for the URL “**http://XXX.XXX.XXX.XXX:100XX/ibm/console**” .

(The “X’s” are the IP address for your iSeries)

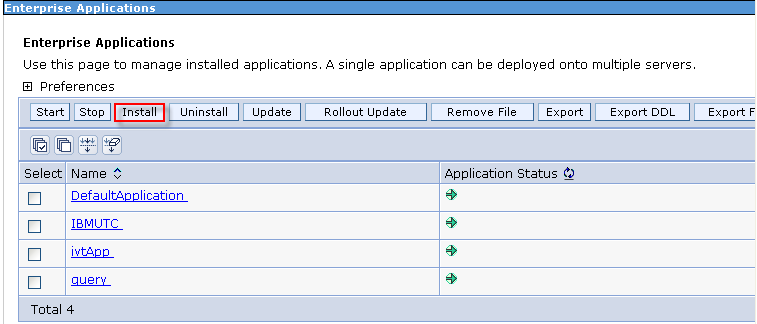
You will see the following screen. Just click “Log in” to access. There is no password by default, if a secure login is created you will need to supple a User ID and Password.



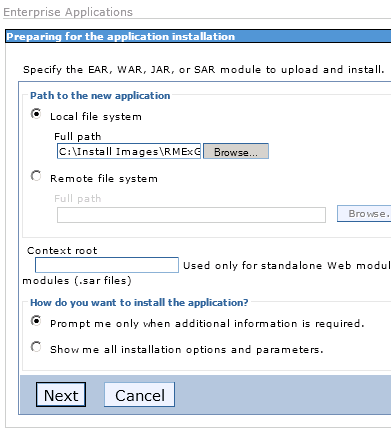
* Go to: Applications 🡪 Enterprise Applications page.



* Click on **“Install New Applications”** to go to the **Preparing for the Application Installation** page

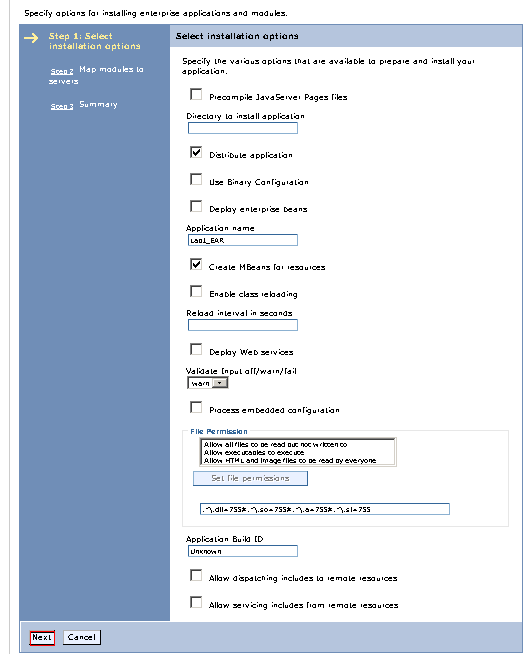


* Click on “Browse” or type in the location and name of the EAR file that you modified Select it. In the example below the file name was “RMExDefault\_EAR140612\_X.ear”

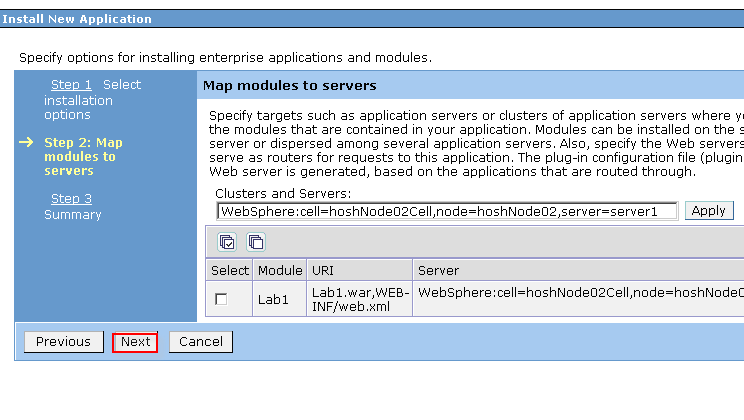


* Once the file is selected click on the “Next” button, leaving everything as default. Make no other changes.

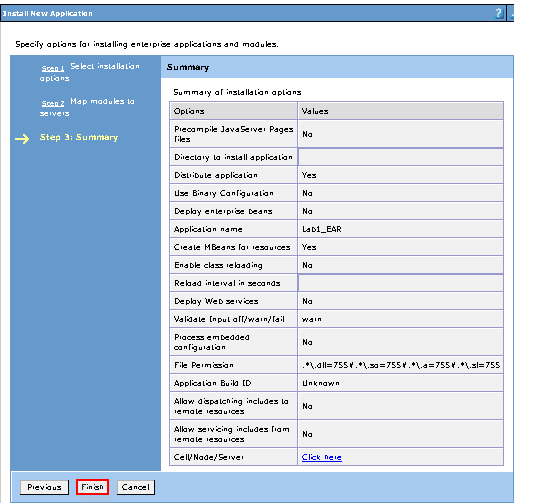
.



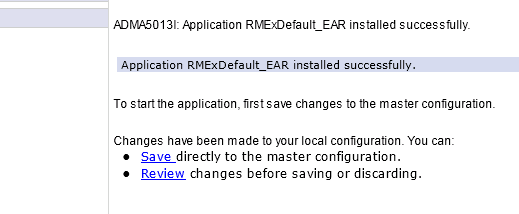
* Click Next again, leaving the defaults.



* Click Next again on the “Map Modules” page

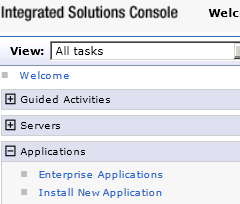


* Click “Finish” on this final page.
* Next you will be presented with a page showing that the EAR Application was installed successfully. Hit the **Save** option as shown below

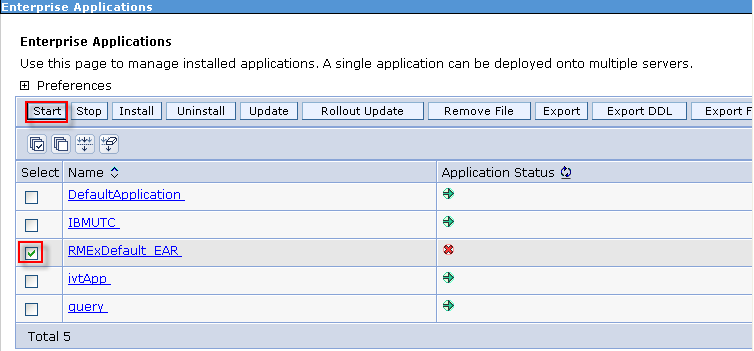


* Once this is done the installation of EAR Application is complete.

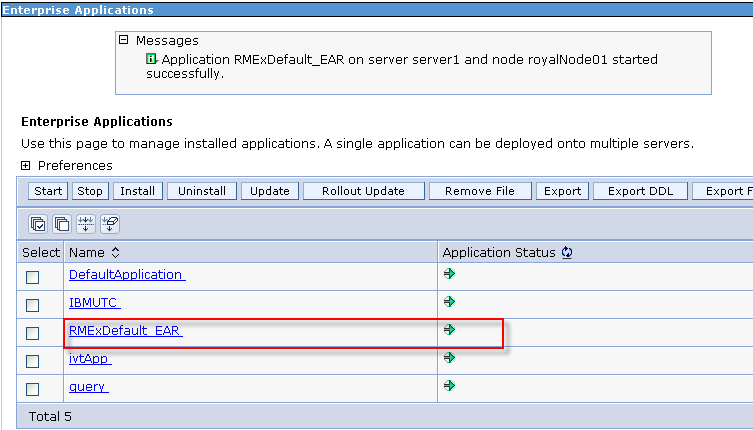
**To START GUI Server:**



* + Navigate from the left link bar to: Applications🡪 Enterprise Applications.
  + Check the Box next to RMExDefault\_EAR ‘select’ and click start.



* The top of the next screen will display the message that the Application started successfully, as shown below:



**NOTE**: If the Admin Console is not working then try restarting the WebSphere Application Server (WAS). How to do this can be found in the GUI Administration Doc.

These details were provided earlier in the documentation under “**How to Start/Stop/Restart the WebSphere Application Server (WAS)”**.