IMPLEMENTING THE RMEx GUI

This document discusses the system requirements to prepare for the RMEx GUI.

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Introduction

RMEx GUI, our *Graphical User Interface* is an innovative product for our Quantrax clients, providing a new and unique web-based environment for the user. User navigation is reduced, allowing the user to work more efficiently. The RMEx GUI product will change the way you work, letting experienced agents work faster and reducing the learning curve and training time for new hires.

The RMEx GUI System Configuration

The installation of the GUI requires WebSphere Application Server (WAS) on the ISeries. Additionally, a separate Windows PC server is needed for the GUI delivery, which we will call the QServer.

> **NOTE**: WAS can also run on a PC. Notify Quantrax if this is the direction you would like to take. There will be added costs associated with this set up.

The key configurations that will be needed for the GUI are as follows:

- ☐ Setting up VPN access with Quantrax
- ☐ Installing the WebSphere Application Server and related required software on the ISeries
- ☐ Installing and configuring QServer
- ☐ Installing RMEx GUI

The implementation will take approximately 2 – 3 weeks from the time you order your QServer. Please use the checklist on the next page to guide you through the tasks that need to be completed before the RMEx GUI installed.

Throughout this document you will be asked to verify and send Quantrax information about your systems.

IMPORTANT: As you read each section of this document **fill-out** and **print** the *GUI Implementation Client* Info form to notate the information requested. On the last page is a *GUI Implementation Checklist* for you to confirm all the tasks you need to complete prior to the GUI being installed.

Quantrax must have this document before we can install the RMEx GUI.

NOTE: Directions/AS400 commands are listed in the following pages.

Click to open the *GUI Implementation – Client Info* form

Pricing Information

☐ **Graphical User Interface (GUI) Pricing**

License	Cost
Up to 10 Users	$2,000
Up to 25 Users	$3,000
Up to 50 Users	$5,000
Up to 75 Users	$6,000
Up to 100 Users	$7,500
Over 100 Users (per user)	$80
Enterprise License	$50,000

☐ **QServer Pricing**

If Quantrax builds the Windows Server, we will load and configure all applications ordered by clients prior to delivery for a total cost of $1,500. Applications loaded after delivery will incur a fee of $500 per application.

The Windows server can be purchased from **Velocite**. The cost for this server is $2,790.00. We can order the server from Velocite, even if you would like to install the products.

NOTE: For clients who have 50 users or less, a single Windows server will be able to run all of the applications listed.

VPN Access with Quantrax

Clients are asked to set up a Site-to-Site, SES-256-bit encrypted VPN link between your iSeries and our own systems. This is for the purpose of transmitting modifications or PTF's and to analyze a problem remotely, if required.

Using other client VPN Software such as Cisco, SonicWALL, WatchGuard, etc., running from remote PC's, instead of a Site-to-Site connection VPN, has caused PC and connection issues in the past, resulting in unwanted delays. Direct access has been the most reliable and efficient method, allowing us to avoid unnecessary delays regarding customer support, which we would like to always avoid if possible.

Information needed to establish a Site-to-Site VPN Connection:

VPN Client information (*send to Quantrax*):

- ☐ Firewall Type
- ☐ Remote IP Address
- ☐ Your LAN IP Address
- ☐ Your LAN Subnet
- ☐ iSeries address
- ☐ I-Tel address (if used)

VPN Quantrax Information (Keep for your setup):

- ☐ *Firewall Type*: SonicWALL NSA 2400
- ☐ *Our Remote FQDN*: vpn.quantrax.com (If you cannot use a domain name the IP address is 67.90.175.166)
- ☐ *Encryption*: AES-256
- ☐ *Authentication*: SHA1
- ☐ *Key Lifetime*: 86400
- ☐ *Shared Secret*: (We will exchange this at a later date)
- ☐ *Our LAN*: 192.169.0.0
- ☐ *Our Subnet*: 255.255.255.0

System Requirments for End User PCs

The minimum requirements for end user PCs to run with RMEx are as follows:

- ☐ Minimum requirements for PC Hardware.
- ☐ Pentium 4.3.0 or better with 512mb of RAM.

Setting Up the QServer (Windows Server) for RMEx GUI

The minimum configuration for the QServer is as follows:

- ☐ Intel Xenon processor – 2.0 Ghz
- ☐ Windows 2008 server – 64 bit
- ☐ 8 GB RAM
- ☐ Raid 1
- ☐ 2 x 1TB Hard Drives
- ☐ Redundant power supply
- ☐ 1 x 1 GB Network card
- ☐ Minimum of Windows 2008
- ☐ Windows updates installed
- ☐ Internet Information Services (IIS)
  NOTE: IIS comes with Windows 2008
- ☐ System iAccess (ODBC drivers)
- ☐ .NET 3.5
- ☐ ASP.NET (in IIS Web Server)

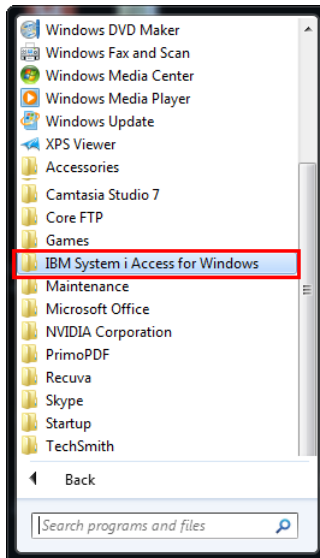# How to Find: Verify if iAccess (ODBC drivers) installed on the QServer?
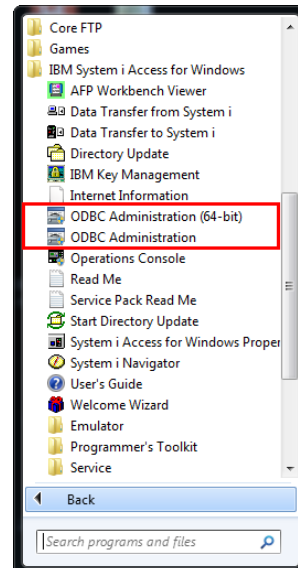
1. On Server from the Desktop, click *Start*
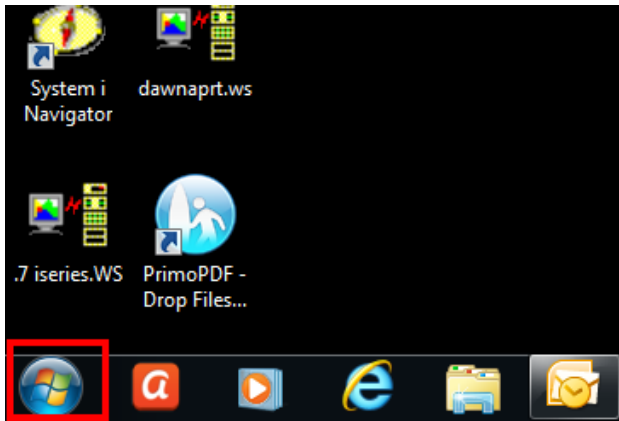
2. Click *All Programs*
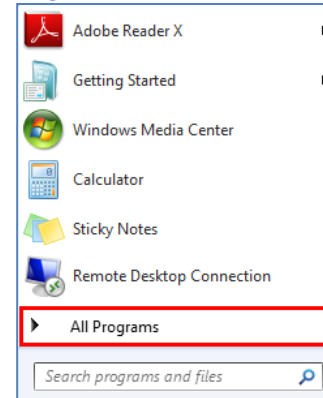
3. Click IBM System iAccess for Windows

4. ODBC Administration items will display if it is installed

QServer Installation

If Quantrax <u>does not build</u> your QServer, you <u>must</u> configure the server with the specifications provided by Quantrax. Please contact Quantrax for information regarding:

☐ Installing System iAccess (formerly called Client Access)
☐ Installing .NET 3.(in Server Manager)
☐ Registering ASP.NET in the IIS Web Server

WebSphere Application Server (WAS) for RMEx GUI

Verify that the minimum configuration for the WAS is as follows:

NOTE: AS400 should have IBM Operating System Version 6.1

- ☐ WebSphere Application Server (WAS)
  NOTE: Free product from IBM (may already be installed)
  - ☐ 5733W61 WebSphere Application Server V6.1 for i5/OS
  - ☐ 5733W61 WebSphere Application Server V6.1 Express
- ☐ HTTP Admin or 5722DG1 IBM HTTP Server for i5/OS*

- ☐ JAVA
  - ☐ JAVA5722JV1 option 6 Java Developer Kit 1.4 (5722JV1-6)
  - ☐ JAVA 5722JV1 option 7 Java Developer Kit 5.0 (5722JV1-7)
  - ☐ JAVA 5722JV1 option 8 J2SE 5.0 32 bit (5722JV1-8)

- ☐ iSeries PTF's are current (click for list of PTFs)
- ☐ RMEx is the latest version
- ☐ IBM HTTP Server is installed

Below are instructions to help you find the information needed to send to Quantrax prior to GUI implementation.

How to Find: What version of WebSphere Application Server (WAS) running on your iSeries machine?

1. **Sign on as QSECOFR and type, *go licpgm* on the command line to see *Licensed Programs*:**

2. **Take *option 10* from the Work with Licensed Programs screen.**

3. **Roll down to see if WebSphere was installed. Remain on this screen for the next step.**

4. **Press *F11* (Display Release) to see version details. Our version shows *V6R1M0*. This is the minimum version you will need to have installed.**

   Remain on this screen for next section (use for JAVA options).

```
                Display Installed Licensed Programs
                                              System:
Licensed   Installed
Program    Status       Description
5761WDS    *COMPATIBLE  System/36 Compatible COBOL
5761WDS    *COMPATIBLE  System/38 Compatible COBOL
5761WDS    *COMPATIBLE  OPM COBOL
5761WDS    *COMPATIBLE  ILE COBOL *PRV Compiler
5761WDS    *COMPATIBLE  ILE C
5761WDS    *COMPATIBLE  ILE C++
5761WDS    *COMPATIBLE  IXLC for C/C++
5761WDS    *COMPATIBLE  Workstation Tools - Base
5733W61    *INSTALLED   WebSphere Application Server V6.1 for i5/OS
5733W61    *INSTALLED   WebSphere Application Server V6.1 Express
5761XE1    *COMPATIBLE  IBM System i Access for Windows
5761XH2    *COMPATIBLE  IBM System i Access for Web
5761XW1    *COMPATIBLE  IBM System i Access Family
5761XW1    *COMPATIBLE  System i Access Enablement Support

Press Enter to continue.

F3=Exit   F11=Display release   F12=Cancel   F19=Display trademarks
```

```
                Display Installed Licensed Programs
                                              System:
Licensed   Installed
Program    Release      Description
5761WDS    V6R1M0       System/36 Compatible COBOL
5761WDS    V6R1M0       System/38 Compatible COBOL
5761WDS    V6R1M0       OPM COBOL
5761WDS    V6R1M0       ILE COBOL *PRV Compiler
5761WDS    V6R1M0       ILE C
5761WDS    V6R1M0       ILE C++
5761WDS    V6R1M0       IXLC for C/C++
5761WDS    V6R1M0       Workstation Tools - Base
5733W61    V6R1M0       WebSphere Application Server V6.1 for i5/OS
5733W61    V6R1M0       WebSphere Application Server V6.1 Express
5761XE1    V6R1M0       IBM System i Access for Windows
5761XH2    V6R1M0       IBM System i Access for Web
5761XW1    V6R1M0       IBM System i Access Family
5761XW1    V6R1M0       System i Access Enablement Support

Press Enter to continue.

F3=Exit   F11=Display option   F12=Cancel   F19=Display trademarks
```

How to Find: JAVA Product Options 6, 7 & 8 needs to be installed as shown below (5722JV1-6 5722JV1-7 5722JV1-8)

5. **From *Licensed Programs* PG-UP to see if JAVA is installed:**

```
                Display Installed Licensed Programs
                                         System:   S10B
Licensed   Product
Program    Option   Description
5722BZ1    *BASE    IBM Business Solutions
5722DG1    *BASE    IBM HTTP Server for i5/OS
5722DG1    1        Triggered Cache Manager
5722JC1    *BASE    IBM Toolbox for Java
5722JS1    *BASE    IBM Advanced Job Scheduler for i5/OS
5722JV1    *BASE    IBM Developer Kit for Java
5722JV1    5        Java Developer Kit 1.3
5722JV1    6        Java Developer Kit 1.4
5722JV1    7        Java Developer Kit 5.0
5722JV1    8        J2SE 5.0 32 bit
5722QU1    *BASE    IBM Query for iSeries
5722ST1    *BASE    DB2 Query Mgr and SQL DevKit
5722TC1    *BASE    IBM TCP/IP Connectivity Utilities for i5/OS
5722WDS    *BASE    WDS for iSeries
                                                         Mor

Press Enter to continue.

F3=Exit   F11=Display status   F12=Cancel   F19=Display trademarks
```

How to Find: What is your admin console IP address (the IP address of your iSeries – machine where WAS is installed)?

1. **Type *netstat* on a command line and enter. The following screen will be presented. (You need to use the ADMIN user id/password e.g., QSECOFR)**

2. **Select *option #1* Work with TCP/IP interface status.**

3. Now you will see the IP address of the iSeries where you installed the WAS.

How to Find: Verify that the HTTP server for WAS is running

1. Type *WRKACTJOB* on command line.

2. The status of the HTTP server under *QHTTPSVR* sub system will display as shown below if active. Once these steps are answered/verified we can configure the WAS server and proceed.

How to Find: Verify that the current PTFs are installed on AS400

1. On Command Line type *go licpgm*

2. *Page Down* to Related Commands menu and select *option 71*-Program temporary fix commands

3. **Select option 13-Display Program Temporary Fix**   4. **Press *Enter* key to see all PTF's**
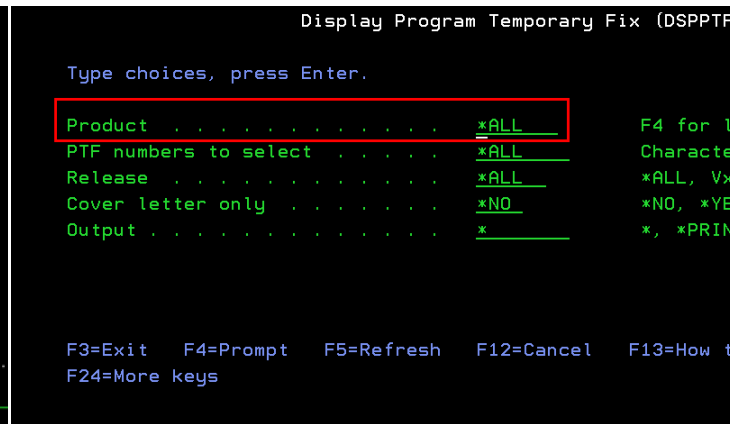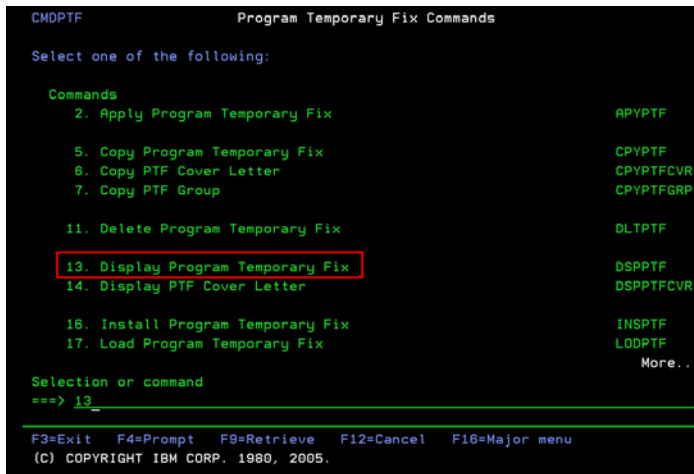
Creating a WAS Instance

NOTE: We also recommend that clients use Internet Explorer to open a GUI session. We currently require Internet Explorer 6.0 with SP1 or later to run the RMEx GUI.

1. Select **Create Application server** on the left hand side
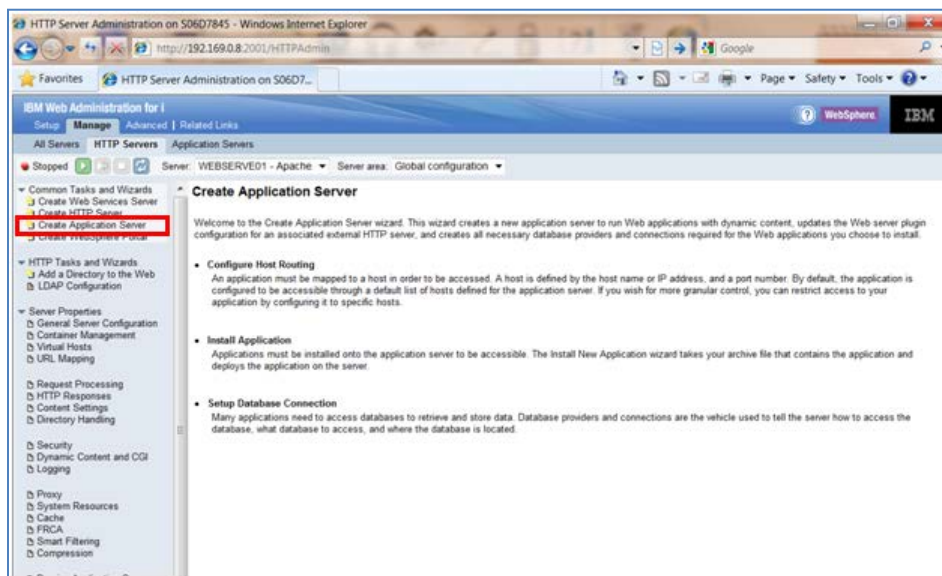
2. Select **V6.1 Express** and click next
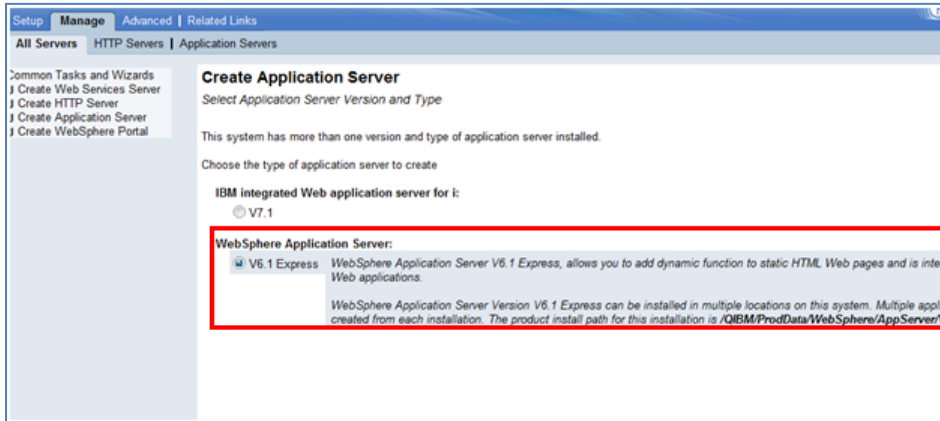
3. Type in the **unique name**
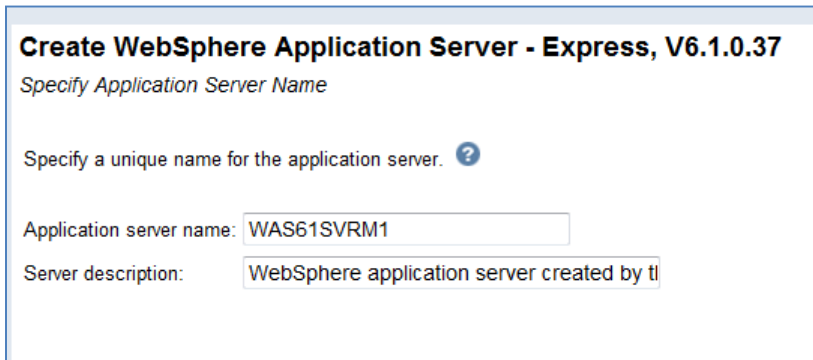
4. For *HTTP server type*, select **Do not associate an external HTTP server with this application**

5. For the *Create WebSphere Application Server port range*:
    a. If this is the first instance you are creating take the default
    b. If this is **not** the first instance, enter the first number for the beginning of the next range

6. Uncheck **Default Applications** as shown below

7. Do not configure identity tokens, click next to move ahead

8. This is the final screen showing the details of the options you selected. **Print this screen for your records and send Quantrax a copy** of this screen so we can begin the GUI install. This is the **WAS Instance Information Sheet.**

   (**NOTE**: Based on the screen below if another instance needed to be created the starting port number could be 10015)

Installing RMEx GUI

Quantrax will install the RMEx GUI once all the tasks on the RMEx GUI Checklist has been completed.

Installing Microsoft Silverlight

After RMEx GUI has been installed, Silverlight must be installed on each user's PC for the RMEx GUI to display. The first time users logon to GUI, the system will prompt them to download and install Silverlight when they are in the Account Details screen.

Troubleshooting

Each desktop must have the ability to reach the AS400 and QServer.

  ☐ After installing the GUI if you cannot see it on the PC, *ping* the AS400 server

☐ After installing the GUI if you cannot see the *Notes* section in *Account Detail* screen, ping the QServer

To *ping* the AS400 or the PC Server to make sure the PC can reach them:

NOTE: You need the IPadress for the server you want to reach. In this example we will use the IP address of **192.169.0.8**

1. In Windows, click on the **START** button and in the dialog box type **CMD** and press **Enter**

2. At DOS prompt type, **PING 192.169.0.8**   and press **Enter**
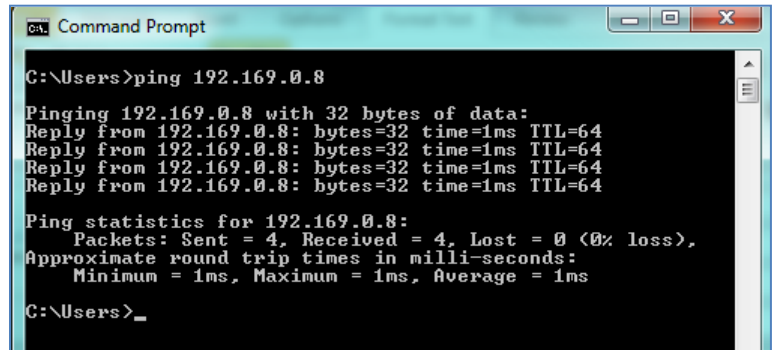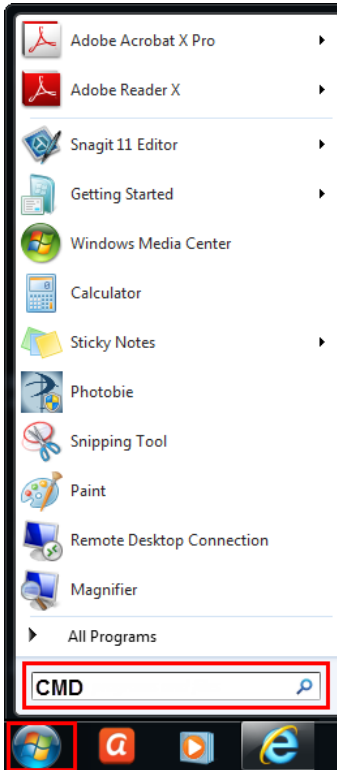
After you hit **Enter** a "*Reply from*" message means you can reach that server.

If you get a message that states "*Request timed out*", they you are *not* able to reach that server