IMPLEMENTING THE RMEx GUI

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

Introduction

The RMEx GUI (Graphical User Interface), is Quantraxs innovative method for replacing the classical (Some say old fashion) IBM “Green Screens”, with a new, up-to-date, user friendly graphical interface, that will appear familiar to anyone using a computer today. Although much of the functionality that you have been accustom to using with a green screen will still be there, you now have all the benefits of a point and click interface, along with additional RMEx enhancements that were not possible in a green screen environment. We would also like to acknowledge the support we have had from many of our clients for the wonderful enhancement ideas, suggestions, and support to help us make the RMEx GUI a world class product.

Pricing and GUI contract

Please contact Quantrax Support, so we can discuss your hardware and software needs, number of users etc. Once we have all the information we will send you a contract to be acknowledged and sent back to support@quantrax.com

The RMEx GUI System Configuration

The installation of the GUI requires WebSphere Application Server Version 8 (WASE 8), or higher on the ISeries. Additionally, a separate Windows PC server is needed for the GUI delivery, which we will call the QServer.

> **NOTE**: WASE can also run on a PC for companies with a large number of users. Quantrax will discuss this option with you if there is a need.

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*

Click here for a description

Other Information to review

Click *here for a Video explaining how to sign into, and navigate the RMEx GUI. This will be a good place to start your users*

Click *here for the GUI admin Document which explains the hardware components of the GUI along with initial testing, starting/stopping the WASE (GUI) servers, etc.*

Click *here for the Account Detail Quick Start Guide*

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

VPN Quantrax Information (Keep for your setup):

- ☐ *Firewall Type*: SonicWALL NSA 2400

- ☐ Your LAN Subnet
- ☐ iSeries address
- ☐ I-Tel address (if used)

- ☐ *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 GUI:

- ☐ The RMEx GUI is designed to use Google Chrome. We suggest using a modern dual or quad core CPU (Intel or AMD) with 4 gigs of RAM minimum.

  The GUI is capable of running on older PC's such as a Pentium 4 with 512mb of RAM. But, we have found that on older PC's the GUI will be sluggish, the same way many of the newer programs would be on that same PC. So we cannot guarantee maximum efficiently if you are using an older PC using the minimum requirements.

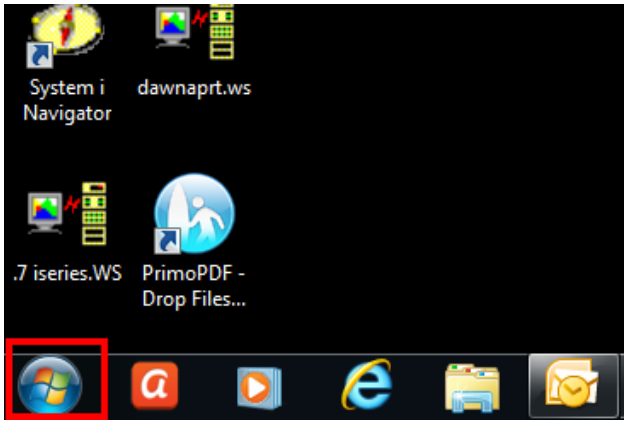
Setting Up the QServer (Windows Server) for RMEx GUI

The minimum configuration for the QServer is as follows:

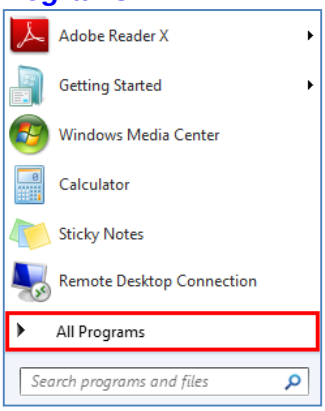
- ☐ Intel Xenon processor – 2.0 Ghz
- ☐ Windows 2008 server – 64 bit
- ☐ 8 GB RAM
- ☐ Raid 1
- ☐ 2 x 1TB Hard Drives
- ☐ Redundant power supply
- ☐ 1 x 1 GB Network card
- ☐ Minimum of Windows 2008
- ☐ Windows updates installed
- ☐ Internet Information Services (IIS)
  NOTE: IIS comes with Windows 2008
- ☐ **System access (Formally Client Access). This will install the required ODBC Drivers**
- ☐ .NET 3.5
- ☐ ASP.NET (in IIS Web Server)

How to Find: Verify if iAccess (ODBC drivers) installed on the QServer?

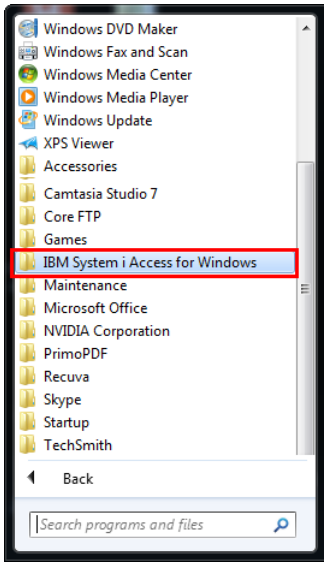
1. **On Server from the Desktop, click *Start***



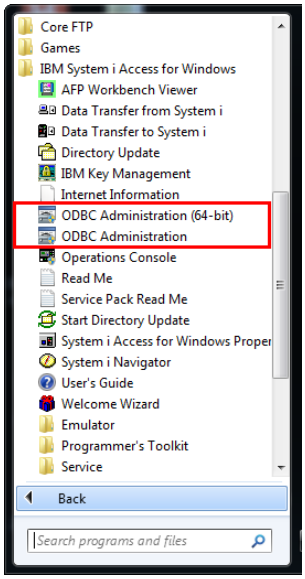
2. **Click *All Programs***



3. **Click IBM System iAccess for Windows**



4. **ODBC Administration items will display if it is installed**



QServer Installation

If Quantrax does not build your QServer, you must 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 (WASE) for RMEx GUI

Verify that the minimum configuration for the WASE 8 (Or above) is as follows:

NOTE: AS400 should have IBM Operating System Version 6.1

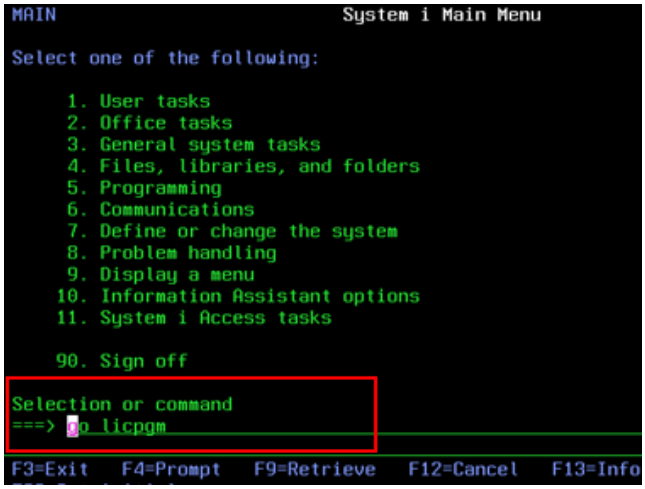
- ☐ WebSphere Application Server (WASE)
  NOTE: Free product from IBM (may already be installed)
  - ☐ WebSphere Application Server V8 for i5/OS
  - ☐ WebSphere Application Server V8 Express
- ☐ HTTP Admin or 5722DG1 IBM HTTP Server for i5/OS*

- ☐ JAVA (Minimums)
  - ☐ 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)
    RMEx is the latest version
- ☐ IBM HTTP Server is installed

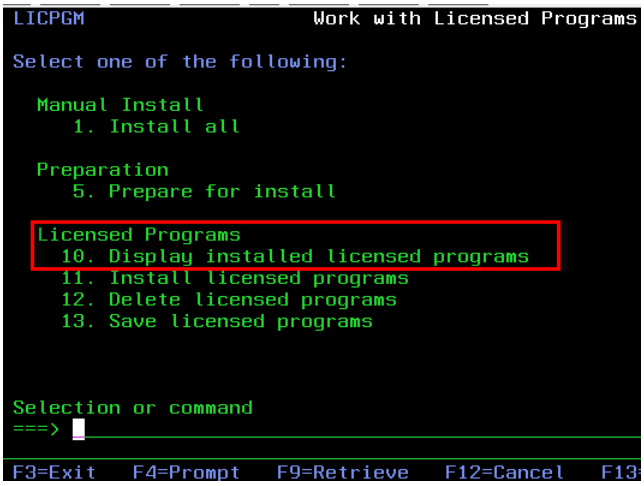
Below are instructions to help you find the information needed to send to Quantrax prior to GUI implementation.

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

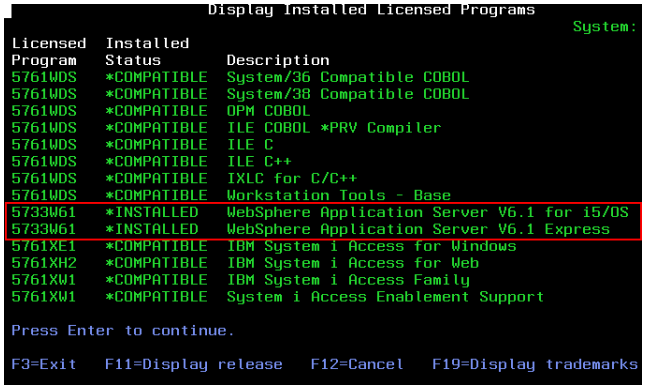
1. **Sign on as QSECOFR and type, *go licpgm* on the command line to see *Licensed Programs*:**



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

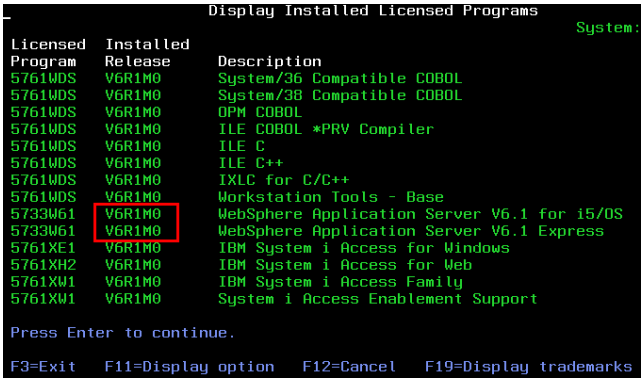


3. **Roll down to see if WebSphere was installed. Remain on this screen for the next step.**



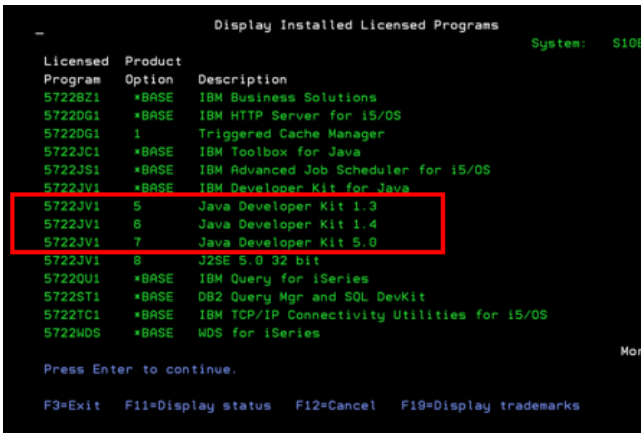
4. **Press *F11* (Display Release) to see version details. Our version shows *V6R1M0*. This is the minimum version you will need to have installed.**

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



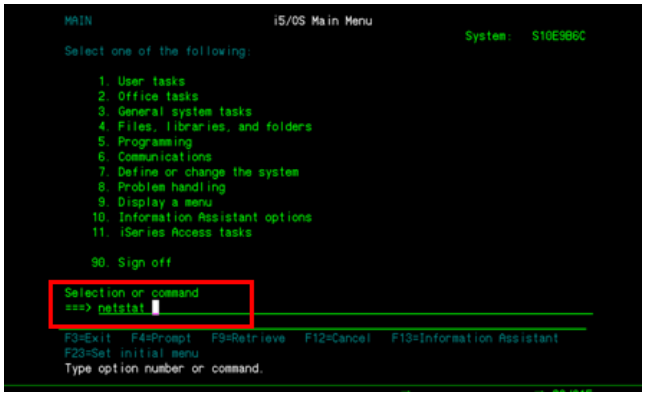
How to Find: JAVA Product Options 6, 7 & 8 needs to be installed as shown below (5722JV1-6 5722JV1-7 5722JV1-8)

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

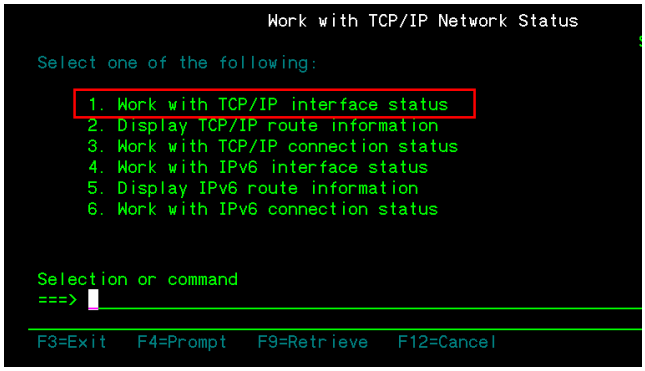


How to Find: What is your admin console IP address (the IP address of your iSeries – machine where WASE is installed)?

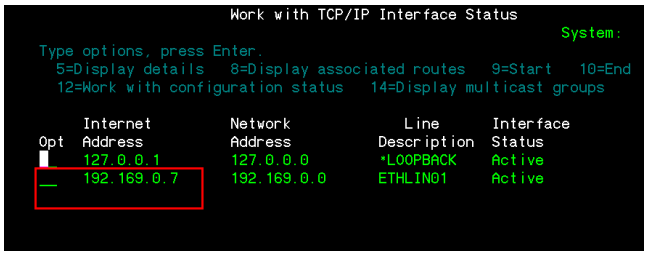
1. **Type *netstat* on a command line and enter. The following screen will be presented. (You need to use the ADMIN user id/password e.g., QSECOFR)**



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

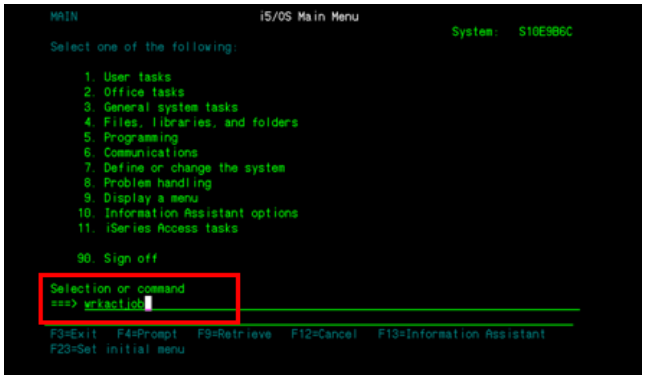


3. Now you will see the IP address of the iSeries where you installed the WASE.

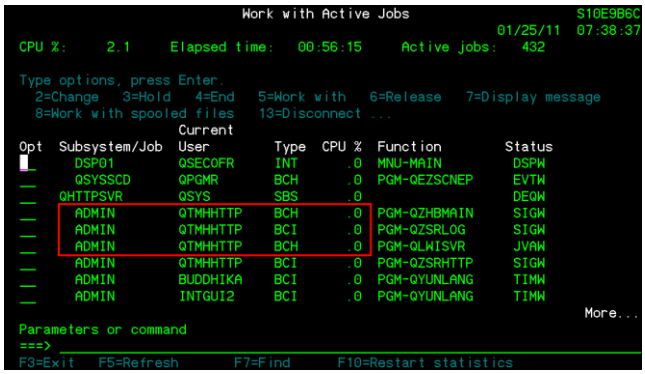


How to Find: Verify that the HTTP server for WASE is running

1. **Type *WRKACTJOB* on command line.**

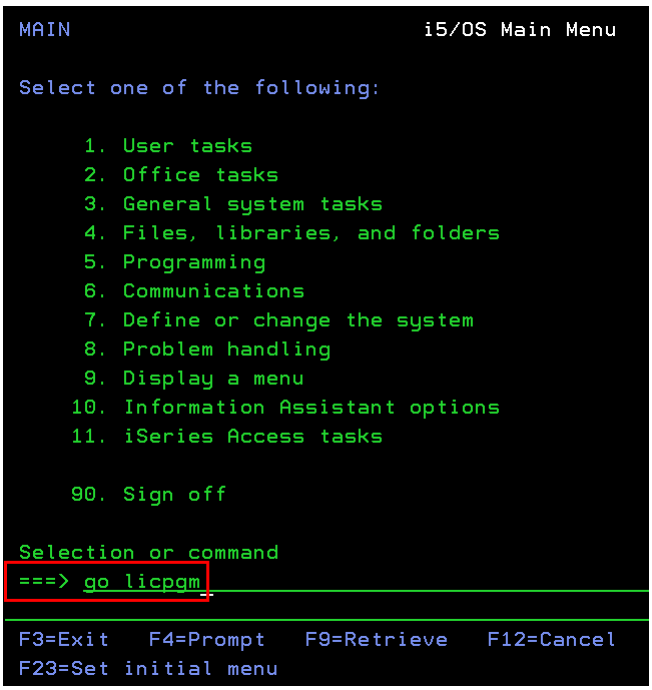


2. **The status of the HTTP server under *QHTTPSVR* sub system will display as shown below if active. Once these steps are answered/verified we can configure the WASE server and proceed.**

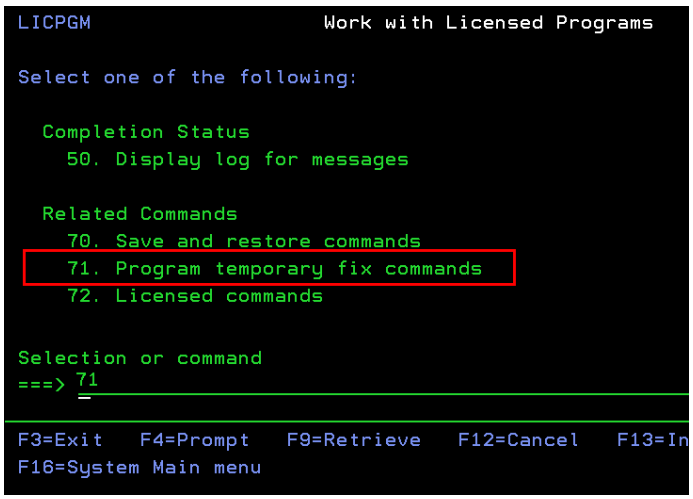


How to Find: Verify that the current PTFs are installed on AS400

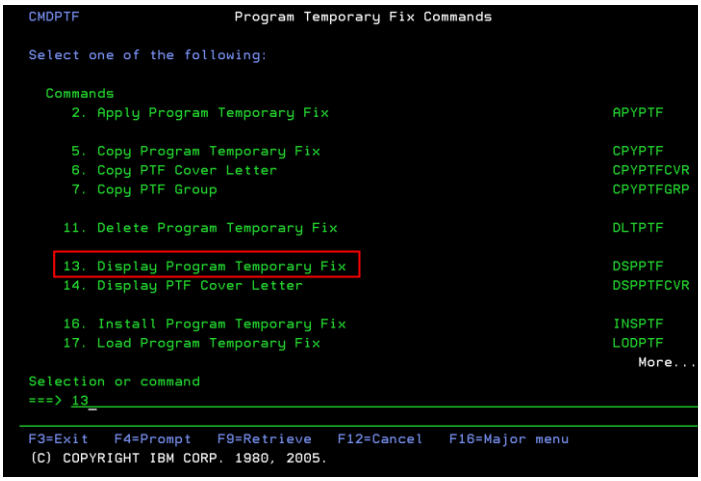
1. **On Command Line type *go licpgm***



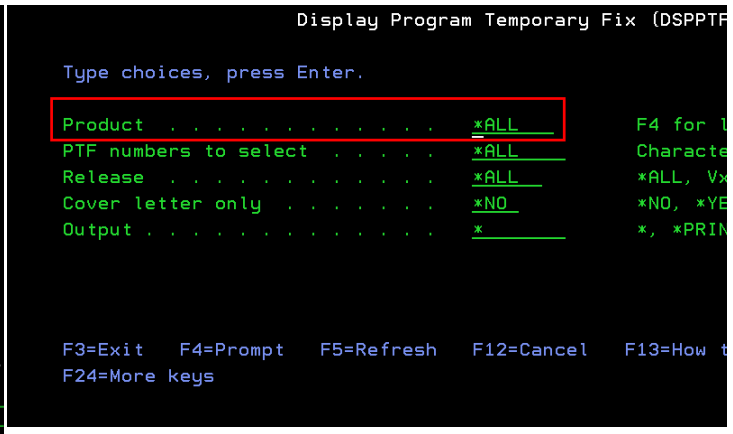
2. ***Page Down* to Related Commands menu and select *option 71*-Program temporary fix commands**



3. **Select option 13-Display Program Temporary Fix**



4. **Press *Enter* key to see all PTF's**



Once the RMEx GUI is installed you will need to know how to

Troubleshooting

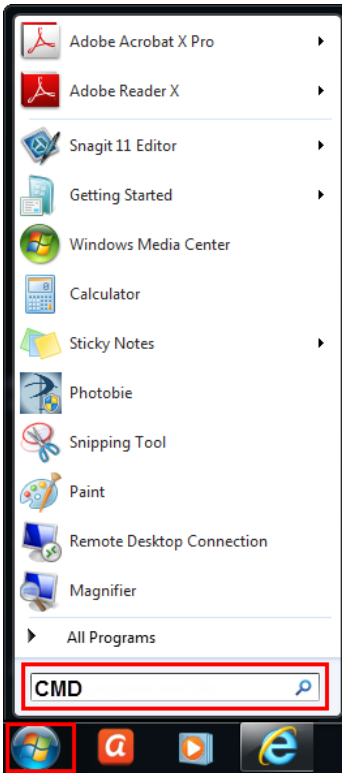
Each desktop must have the ability to reach the AS400 and QServer.

- ☐ 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

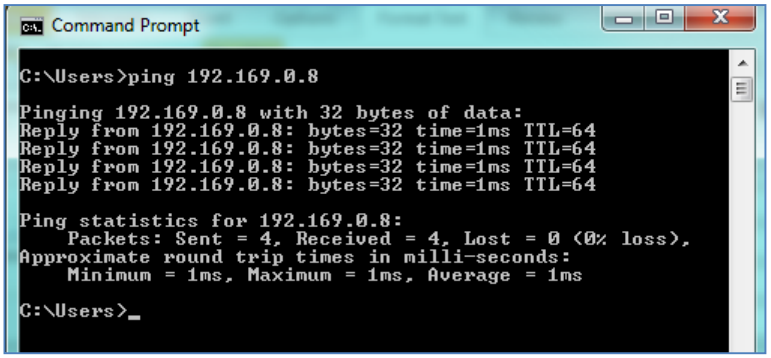
To *ping* the AS400 or the PC Server to make sure the PC can reach them:

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