

# The Next Generation iAccess .... .... with Mobile!

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# Agenda

- IBM i Access Family
- Configuration
- Console
- Data Transfer
- 5250 Emulation
- Printer Output
- Deployment
  
- iAccess Mobile

# IBM i Access Family



# IBM i Access Family

- IBM i Access Family of Products

- IBM i Access for Windows (5770-XE1)

7.1 was the last release

- Client Access
- Most mature and widely used product
  - System i Navigator
  - 5250 Display and Printer Emulation
  - Data Transfer
  - Operations Console & Virtual Control Panel
  - Data Access Providers
  - Remote Command
  - Print Drivers

- IBM i Access for Web (5770-XH2)

- IBM i System Hosted HTML based web product
- Very robust capability that has been well received
  - 5250 Display
  - Print Access
  - Database Access
  - Integrated File System Access
  - Commands
  - Jobs

We'll talk about this in a bit....

- IBM i Access for Linux (5770-XL1)

- Lightly embraced product specifically for Linux RPM Operating Systems
  - ODBC provider
  - 5250 Display
  - Remote Command

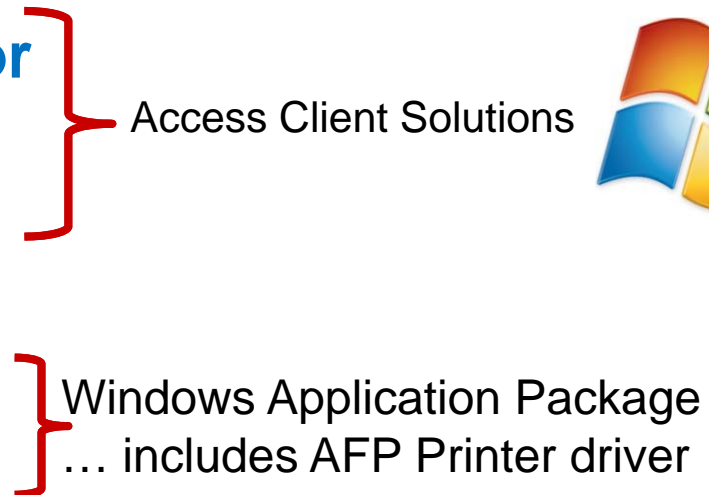
7.1 was the last release

# IBM i Access Client Solutions – 5733-XJ1

Key features from existing desktop products are included with the IBM i Access Client Solutions core offering

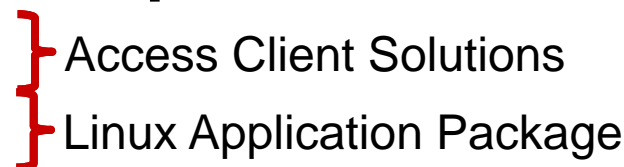
## □ Access for Windows – Desktop

- **5250 display and printer emulator**
- **Data transfer**
- **Operations Console**
- System i Navigator
- **Data drivers (ODBC, OLEDB, .Net)**
- **Printer drivers**



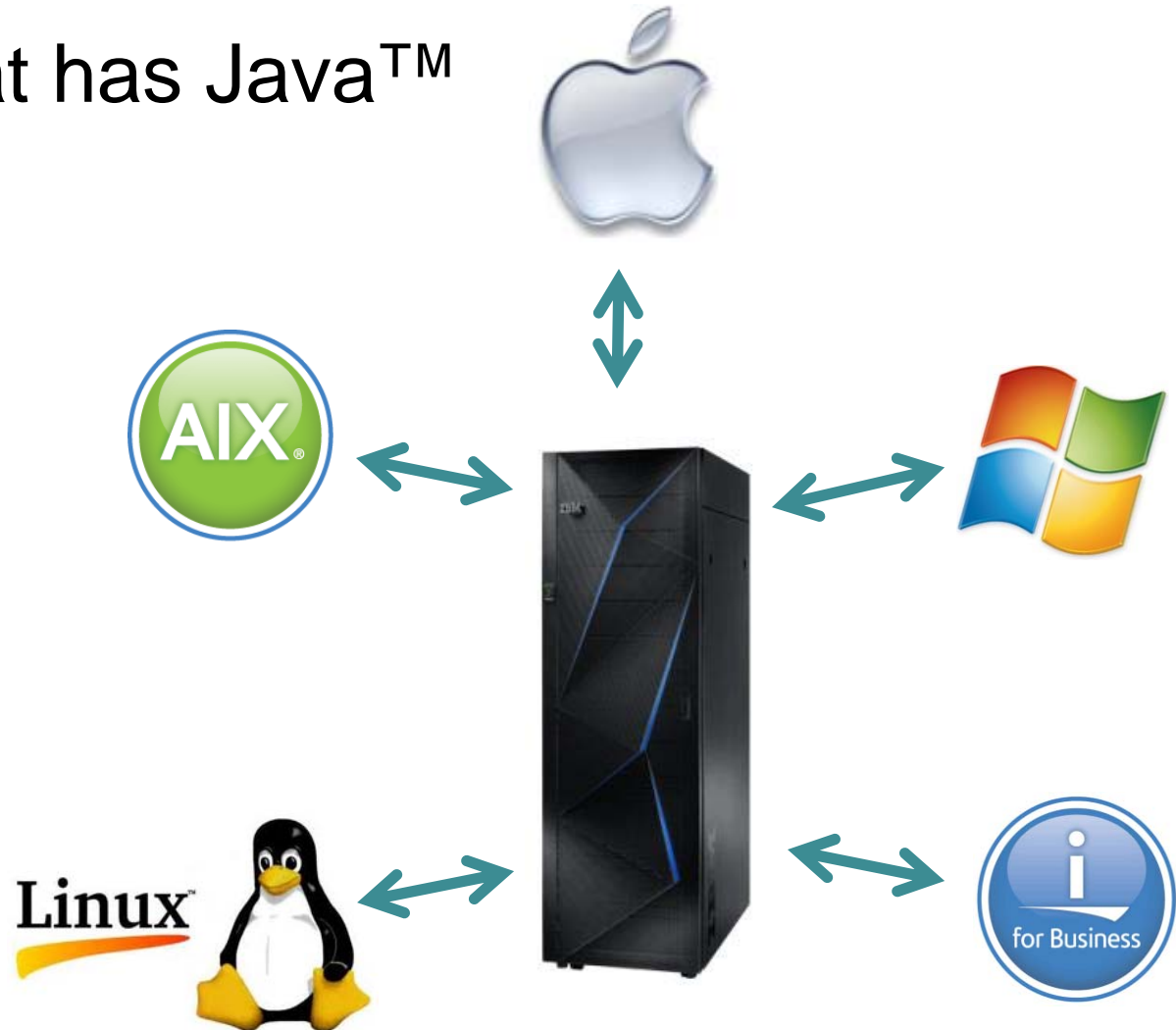
## □ Access for Linux – Desktop

- **5250 emulator**
- **ODBC driver**
- A small subset of the IBM i Access components



# Platform Independent

- Runs anywhere that has Java™
  - Java 6.0 or later
- This includes:
  - Windows
  - Mac
  - Linux
  - AIX
  - IBM i



# Simplicity

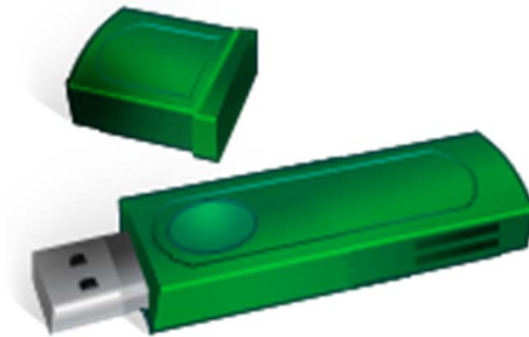
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- No more PC installations
- Updates are easy
- Go from “out of the box” to “connected” in a snap!



# Flexibility

- Can be run from any media
- Configuration can be stored on any media
  - Same exact configuration files regardless of client workstation OS
- Examples include:
  - Thumb drives
  - Network shares
  - Local disk
  - Web deployments



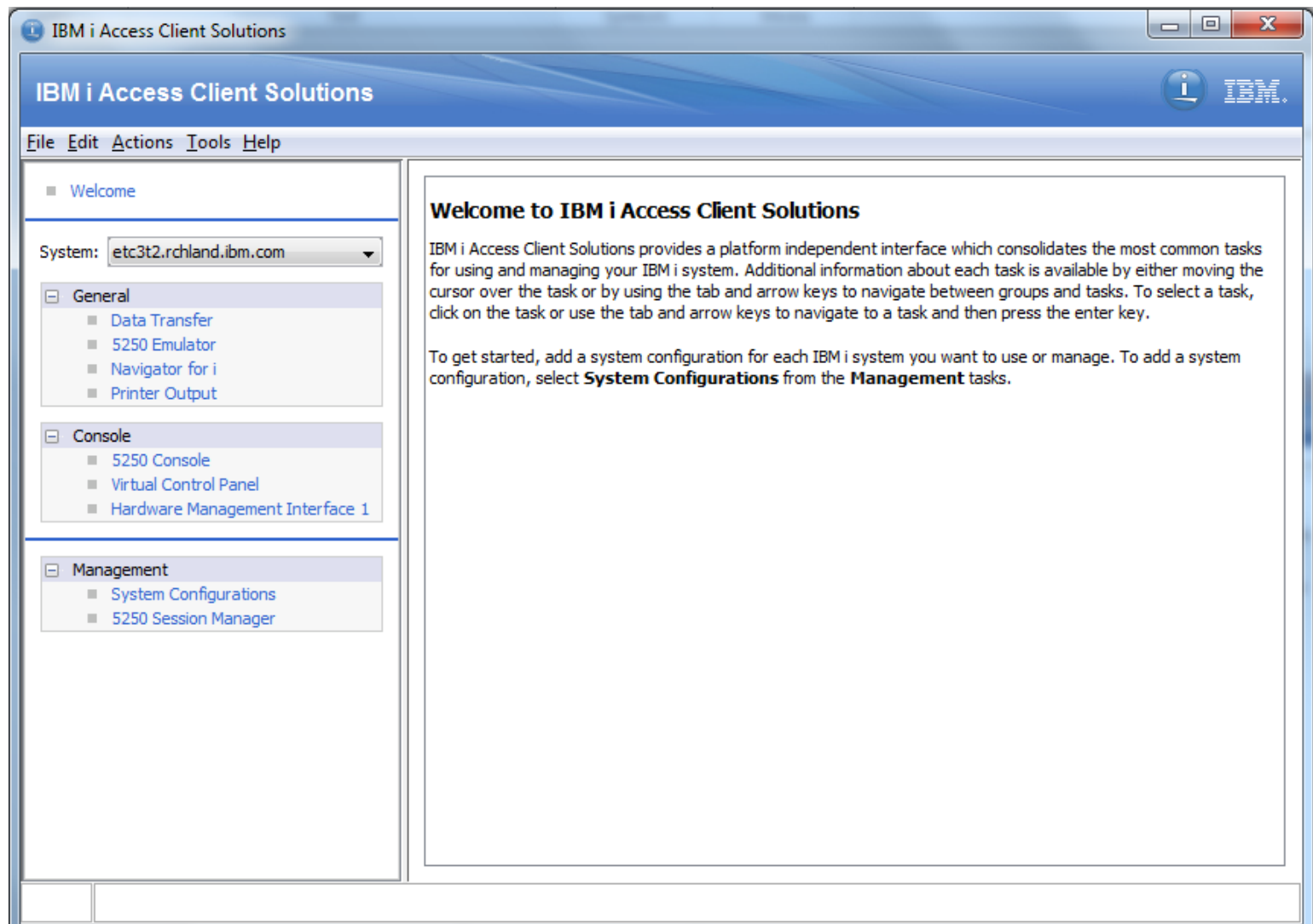


# Configuration



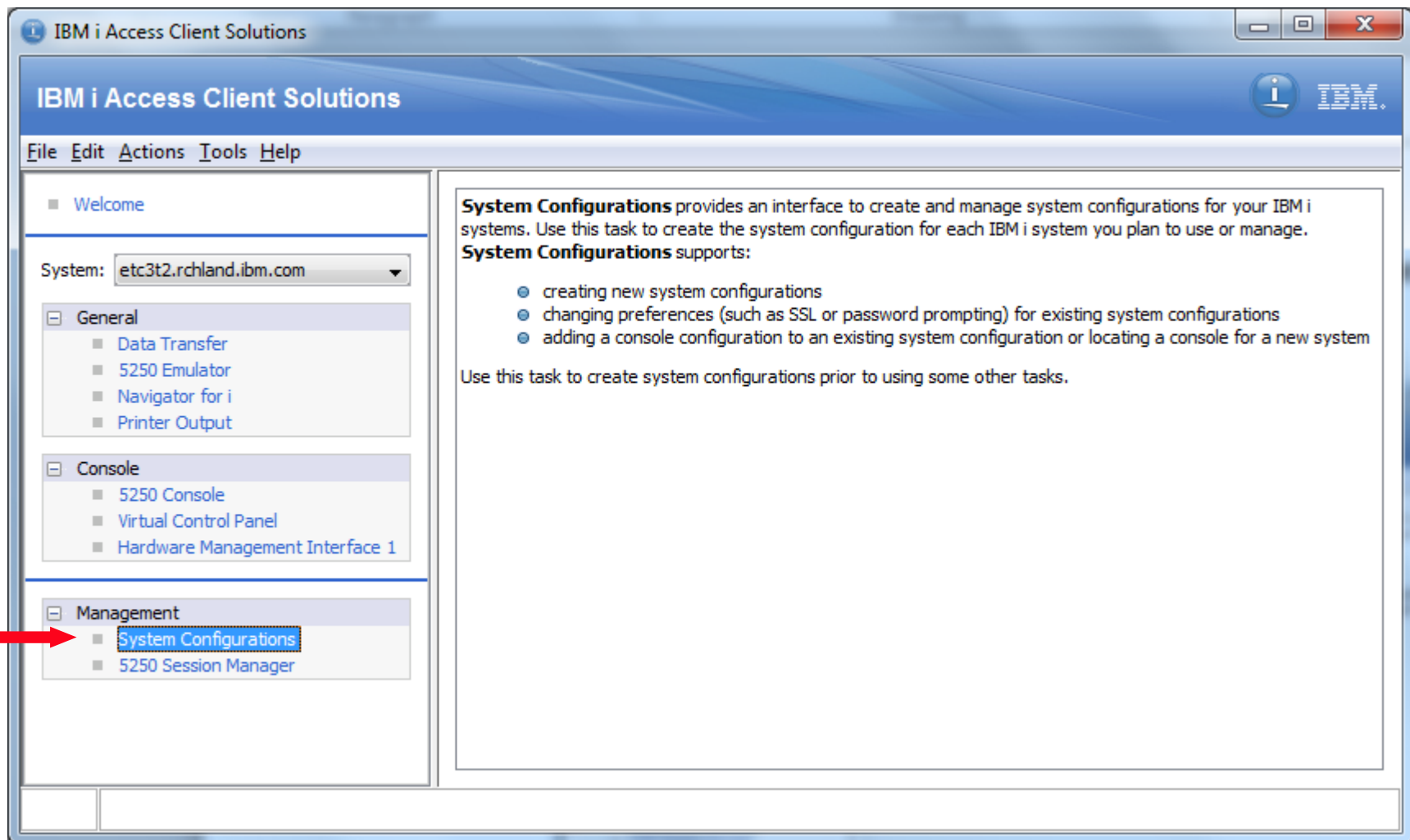
# Main User Interface

- Provide an easy to use launch point for features
- Build an infrastructure that is extensible for the future



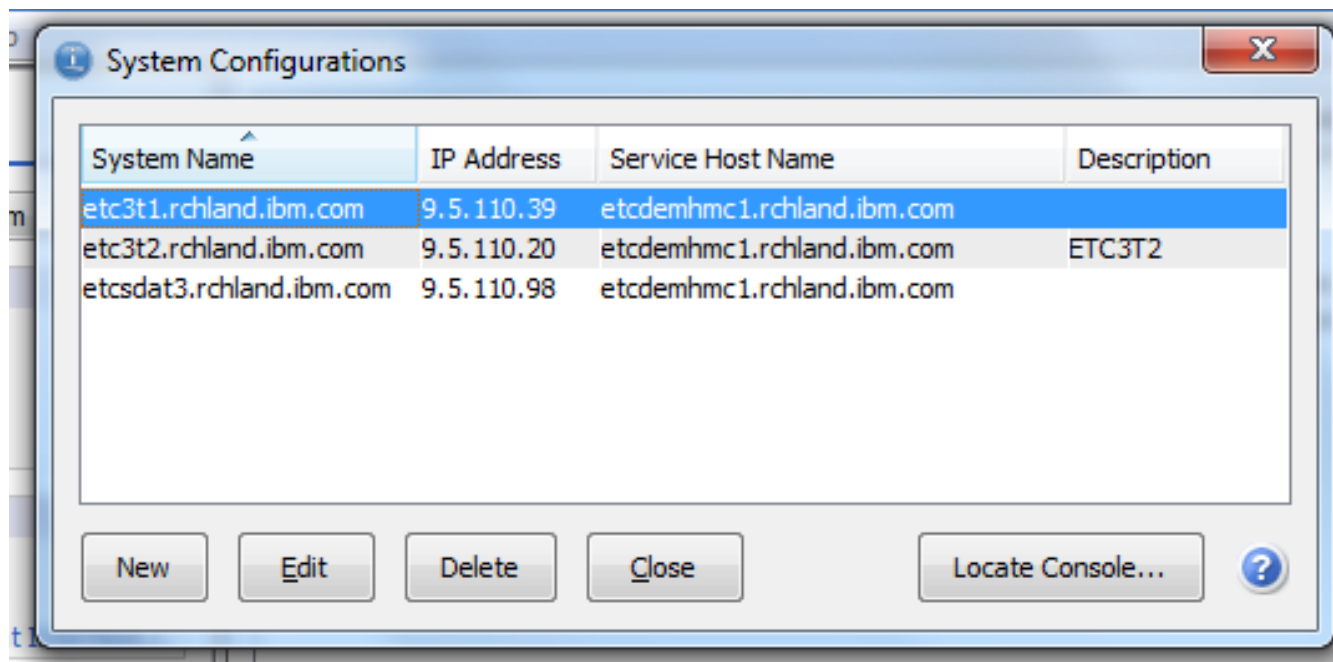
# System Configurations

- Use the System Configurations panel to store connection information for the IBM i partitions that will be used

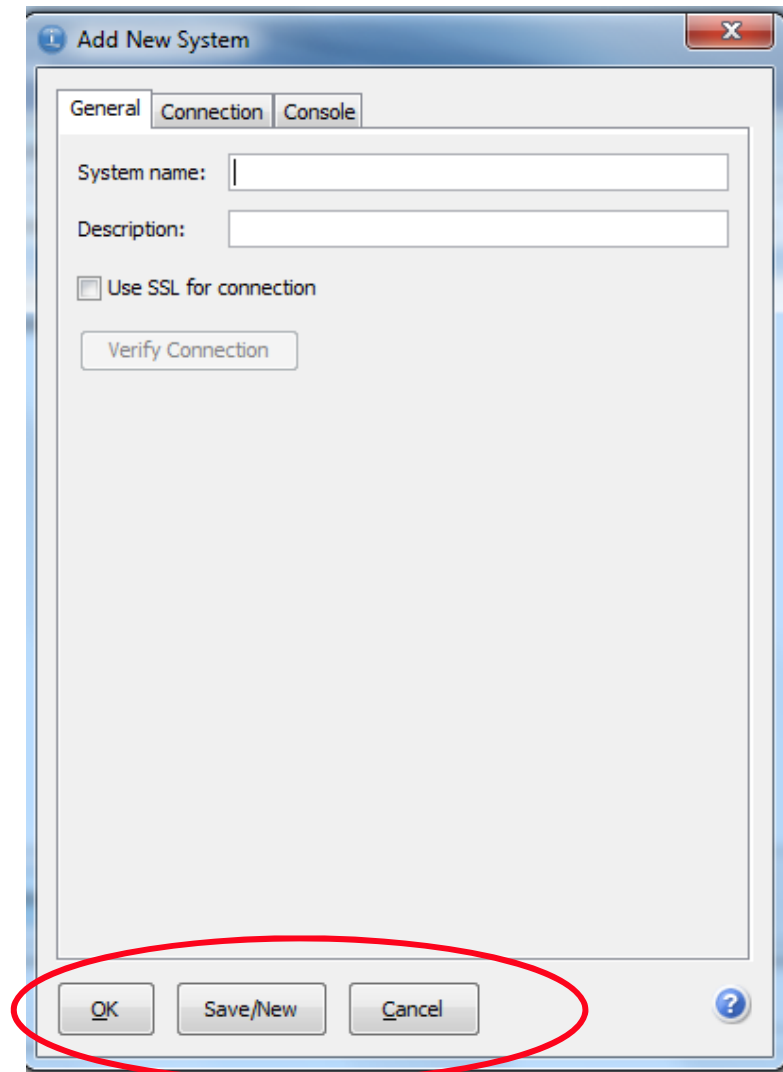


# System Configurations

- Create, Edit or Delete connection information for IBM i partitions that are managed
  - **System Name:** What is entered by the user to connect to this host
  - **IP Address:** What the PC's DNS environment last returned when connecting to the System Name
  - **Service Host Name:** The System's Console host name or IP address as configured
  - **Description:** Defined by the user when created



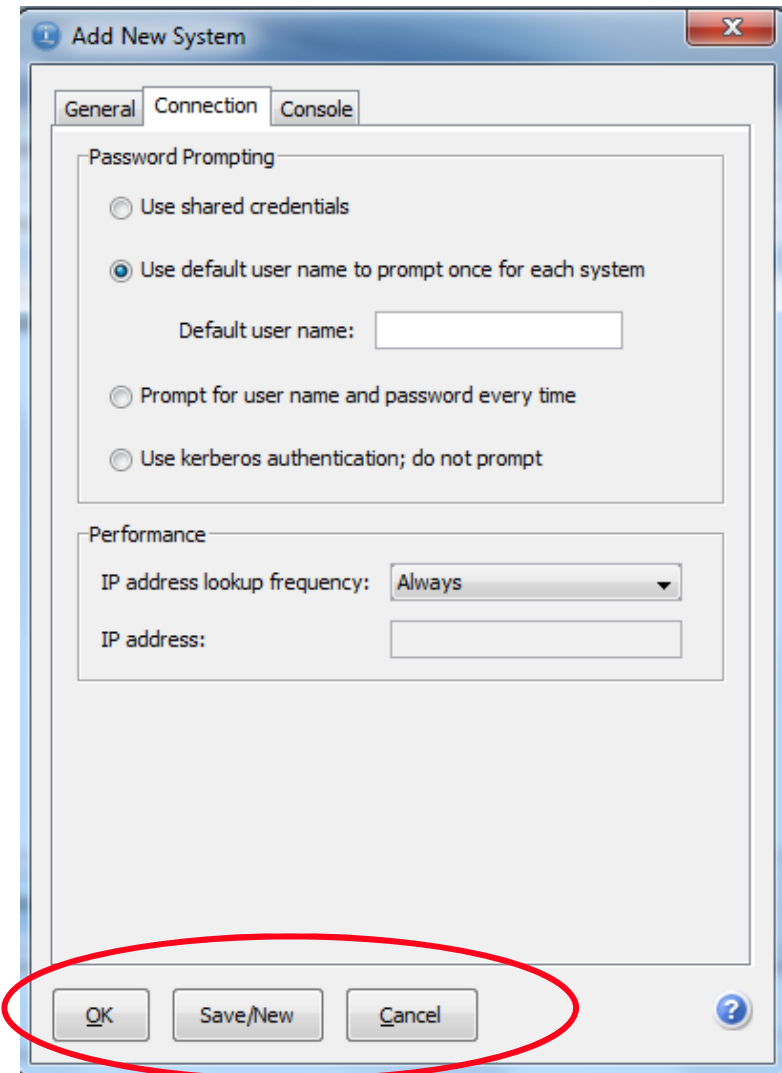
# New System Configuration



The screenshot shows the 'Add New System' dialog box with the 'General' tab selected. The dialog has three tabs: 'General', 'Connection', and 'Console'. The 'General' tab contains the following elements:

- 'System name:' text box
- 'Description:' text box
- 'Use SSL for connection' checkbox (unchecked)
- 'Verify Connection' button

At the bottom of the dialog, the 'OK', 'Save/New', and 'Cancel' buttons are circled in red.



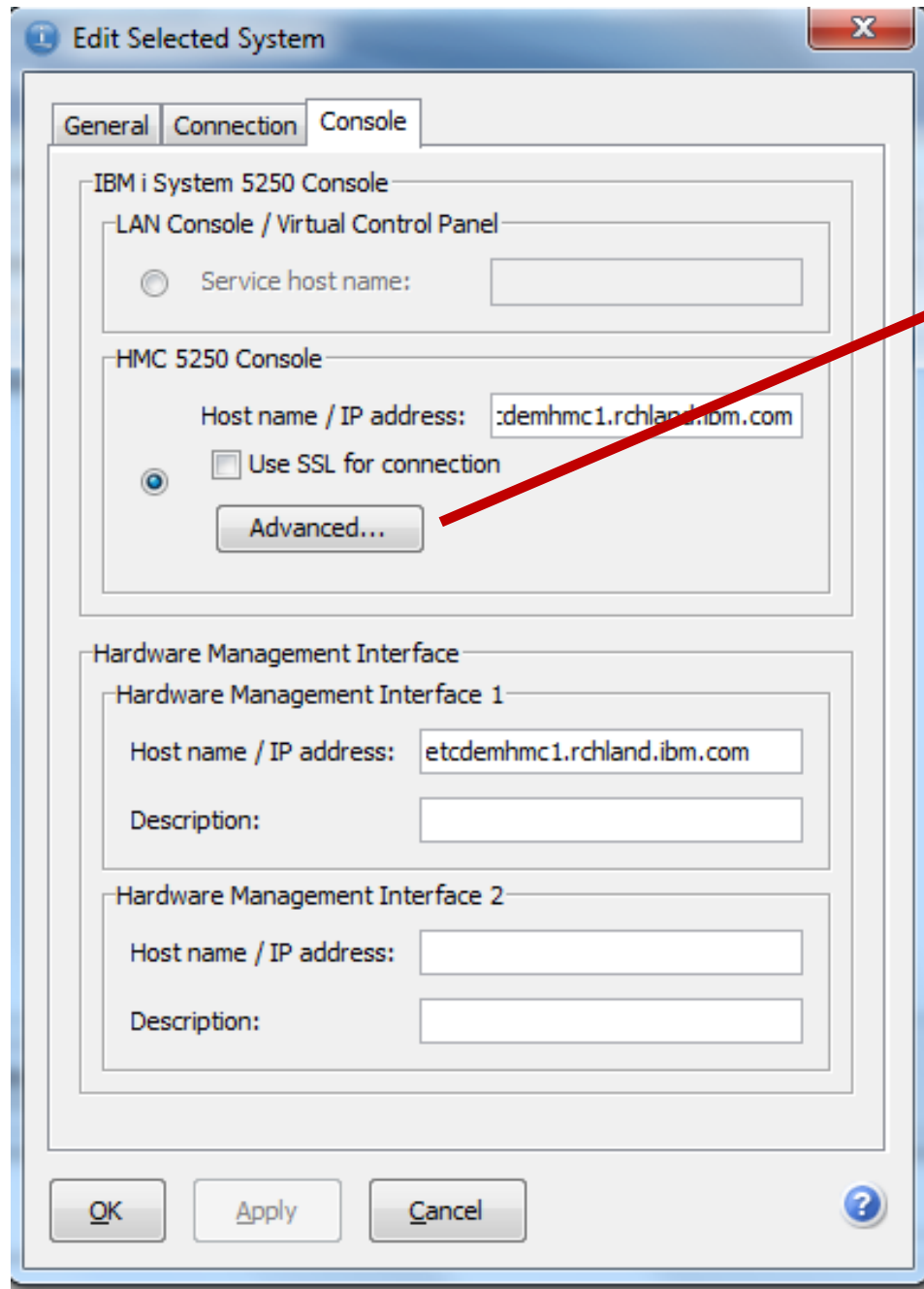
The screenshot shows the 'Add New System' dialog box with the 'Connection' tab selected. The dialog has three tabs: 'General', 'Connection', and 'Console'. The 'Connection' tab contains the following elements:

- 'Password Prompting' section with four radio button options:
  - Use shared credentials
  - Use default user name to prompt once for each system (selected)
  - Prompt for user name and password every time
  - Use kerberos authentication; do not prompt
- 'Default user name:' text box
- 'Performance' section with a dropdown menu for 'IP address lookup frequency' (set to 'Always') and an 'IP address:' text box.

At the bottom of the dialog, the 'OK', 'Save/New', and 'Cancel' buttons are circled in red.

- OK - Saves the information entered and closes the panel
- Save/New - Saves the information entered and clears the panel
- Cancel - Closes the panel without saving anything

# New System Configuration - Console



**Edit Selected System**

General | Connection | **Console**

IBM i System 5250 Console

LAN Console / Virtual Control Panel

Service host name:

HMC 5250 Console

Host name / IP address:

Use SSL for connection

Hardware Management Interface

Hardware Management Interface 1

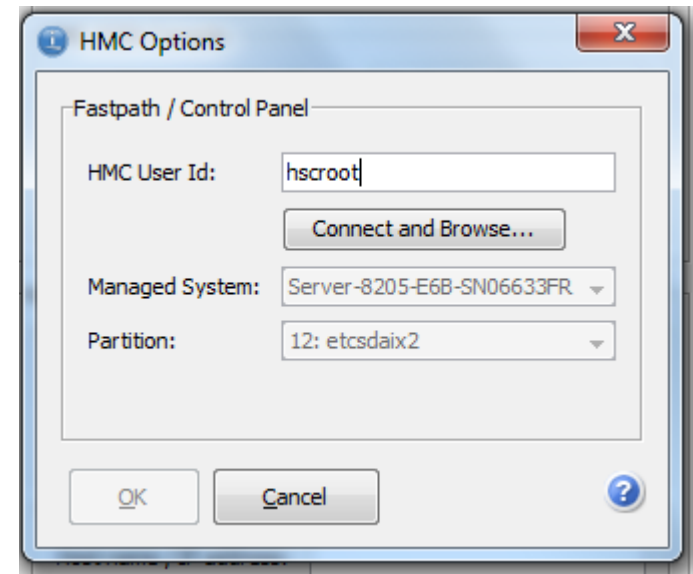
Host name / IP address:

Description:

Hardware Management Interface 2

Host name / IP address:

Description:



**HMC Options**

Fastpath / Control Panel

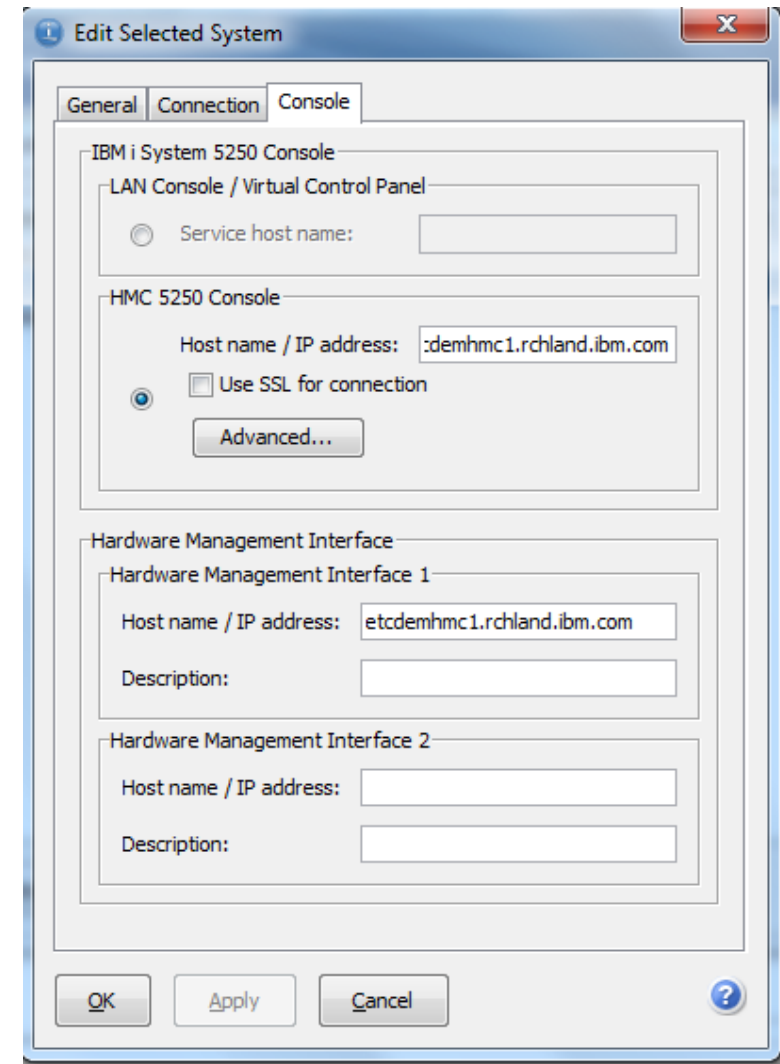
HMC User Id:

Managed System:

Partition:

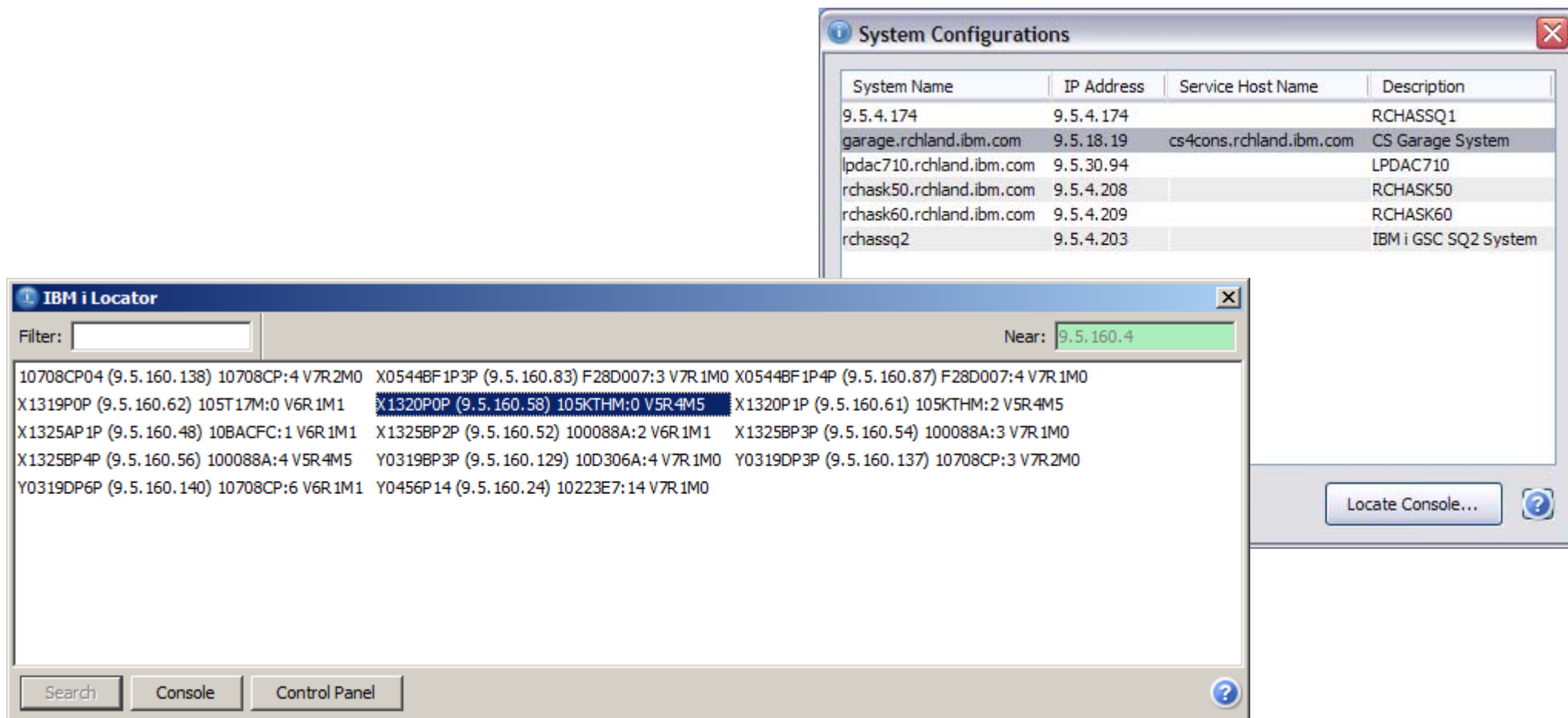
# Console Configuration

- Console information is configured in the System Configuration panel
  - Lan Console / Virtual Control Panel
    - Service Host Name
  - HMC 5250 Console
    - Host Name or IP Address to the HMC 5250 Proxy interface
    - Supports SSL
  - Hardware Management Interfaces
    - Host name or IP address
      - Can append a port to the name or address
      - x.x.x.x:port
    - Description
    - Examples of management interfaces
      - Advanced System Management Interface (ASMI)
      - Integrated Virtualization Manager (IVM)
      - Hardware Management Console (HMC)



# Locate Console

- Listens on your LAN for discovery data packets from systems with LAN Console configured
- Once a system is found a System Configuration can be created for it



The screenshot displays two windows from the IBM i Locator application. The 'System Configurations' window shows a table of discovered systems, and the 'IBM i Locator' window shows a list of systems with one selected.

System Name	IP Address	Service Host Name	Description
9.5.4.174	9.5.4.174		RCHASSQ1
garage.rchland.ibm.com	9.5.18.19	cs4cons.rchland.ibm.com	CS Garage System
lpdac710.rchland.ibm.com	9.5.30.94		LPDAC710
rchask50.rchland.ibm.com	9.5.4.208		RCHASK50
rchask60.rchland.ibm.com	9.5.4.209		RCHASK60
rchassq2	9.5.4.203		IBM i GSC SQ2 System

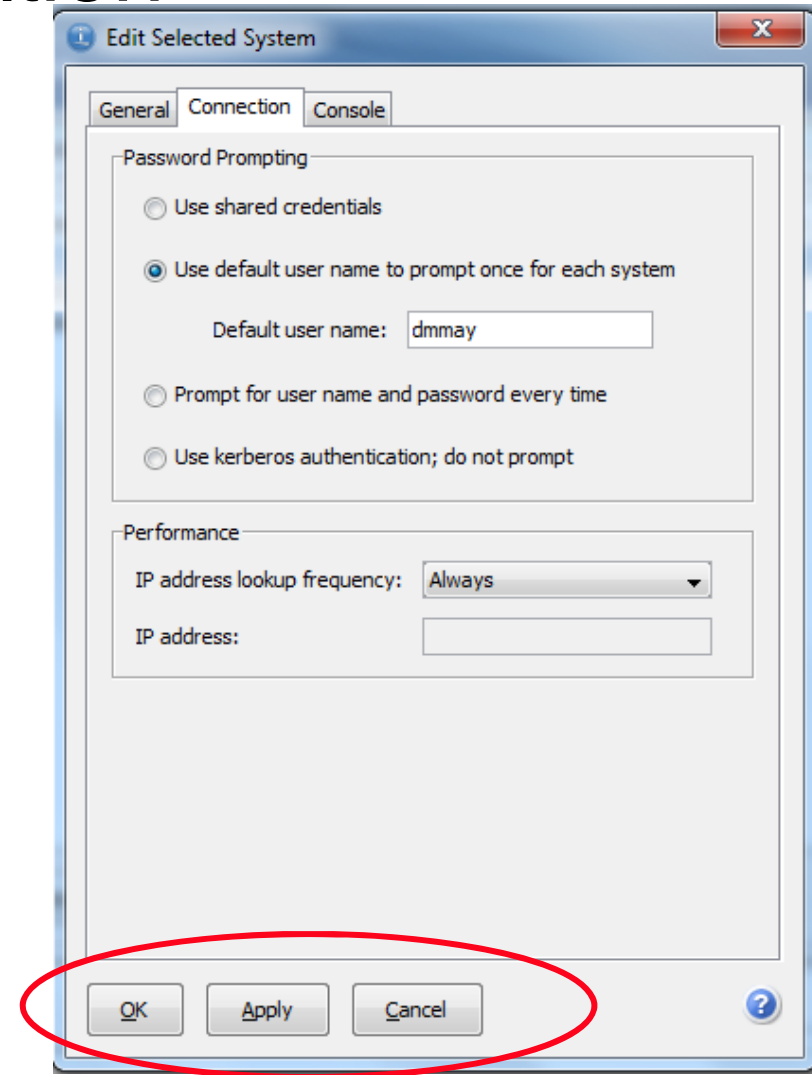
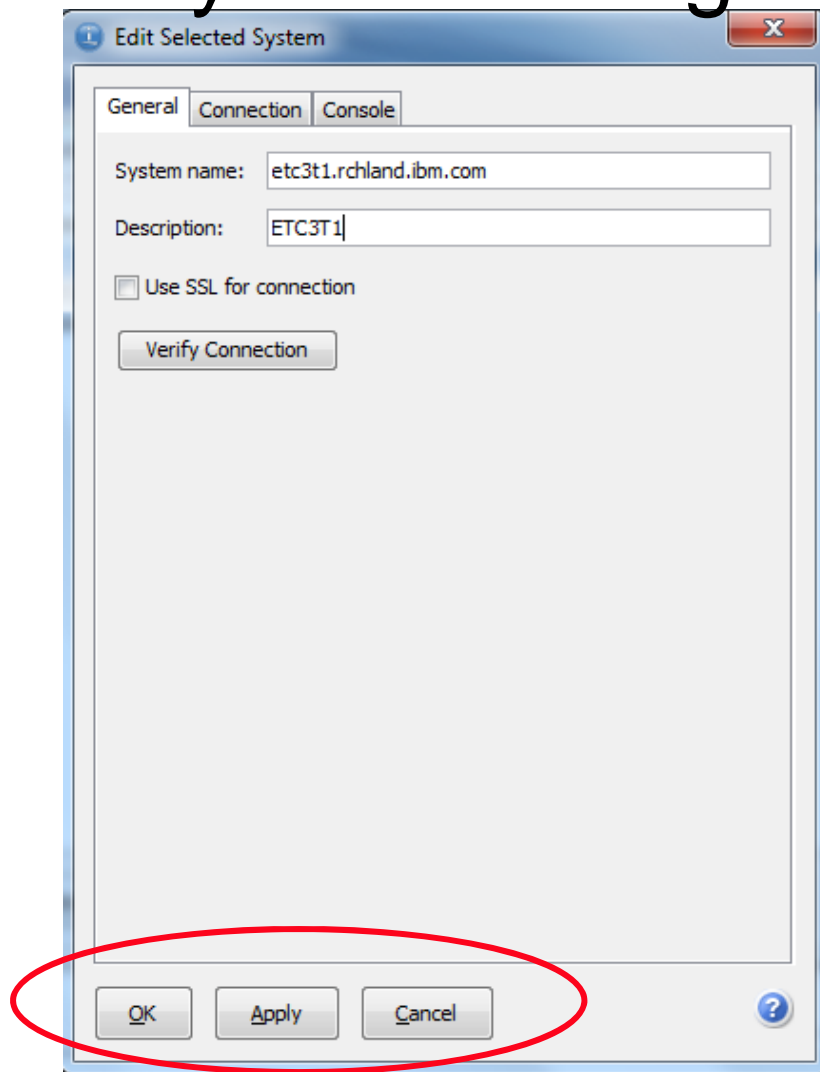
The 'IBM i Locator' window has a 'Near: 9.5.160.4' filter. The list of systems includes:

- 10708CP04 (9.5.160.138) 10708CP:4 V7R2M0
- X0544BF1P3P (9.5.160.83) F28D007:3 V7R1M0
- X0544BF1P4P (9.5.160.87) F28D007:4 V7R1M0
- X1319POP (9.5.160.62) 105T17M:0 V6R1M1
- X1320POP (9.5.160.58) 105KTHM:0 V5R4M5**
- X1320P1P (9.5.160.61) 105KTHM:2 V5R4M5
- X1325AP1P (9.5.160.48) 10BACFC:1 V6R1M1
- X1325BP2P (9.5.160.52) 100088A:2 V6R1M1
- X1325BP3P (9.5.160.54) 100088A:3 V7R1M0
- X1325BP4P (9.5.160.56) 100088A:4 V5R4M5
- Y0319BP3P (9.5.160.129) 10D306A:4 V7R1M0
- Y0319DP3P (9.5.160.137) 10708CP:3 V7R2M0
- Y0319DP6P (9.5.160.140) 10708CP:6 V6R1M1
- Y0456P14 (9.5.160.24) 10223E7:14 V7R1M0

Buttons at the bottom of the 'IBM i Locator' window include 'Search', 'Console', 'Control Panel', and a help icon.

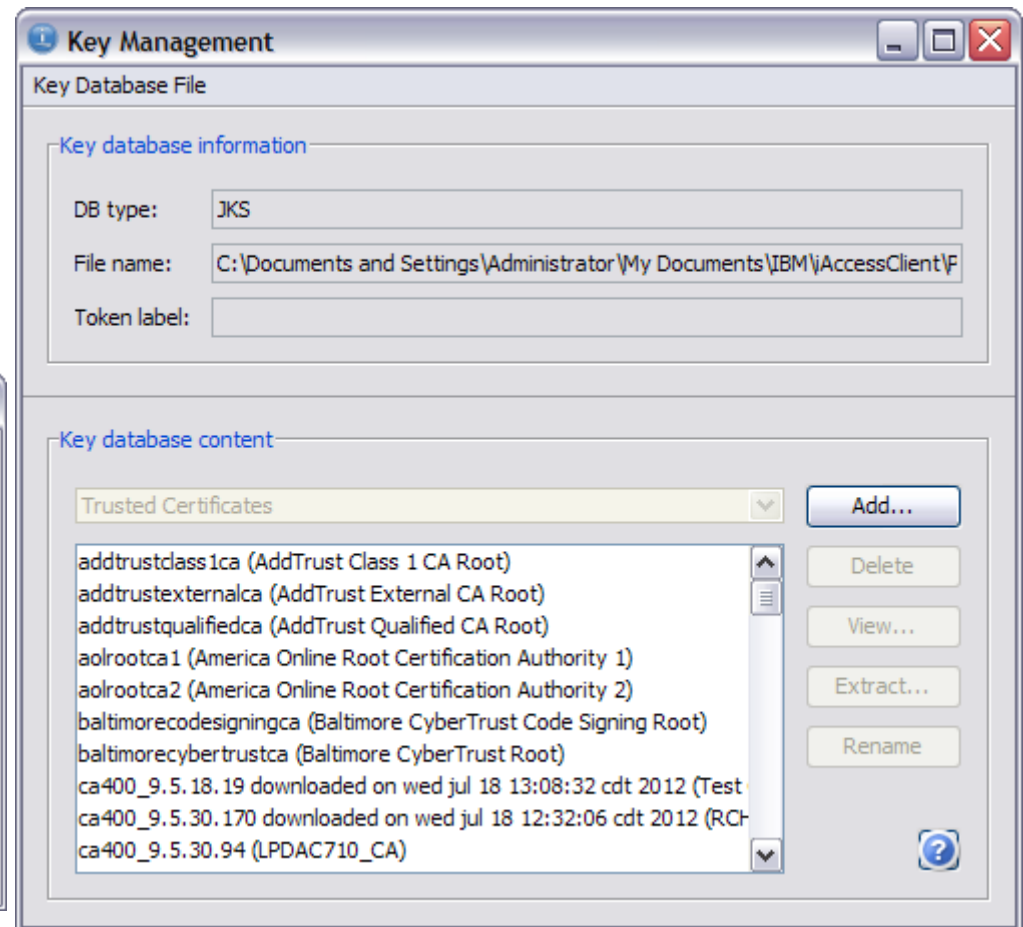
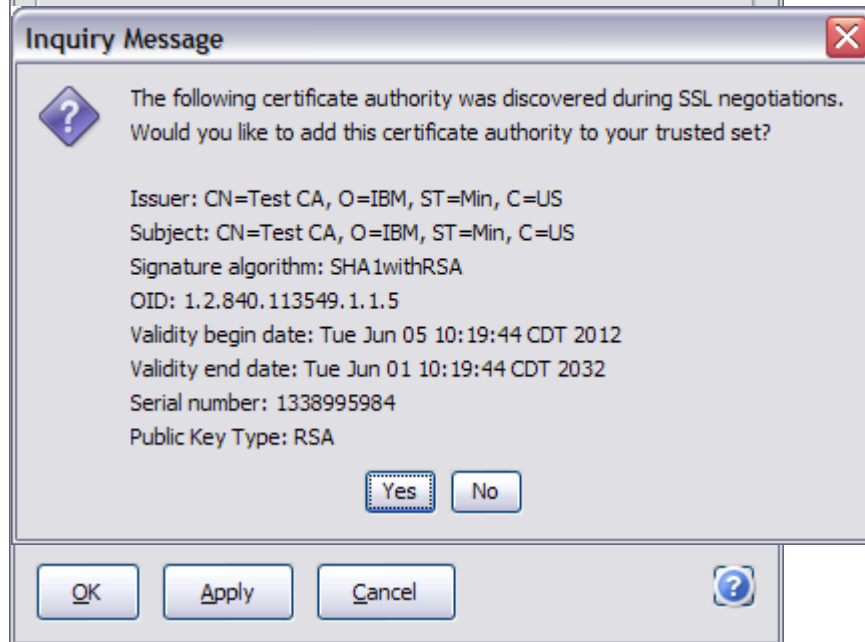
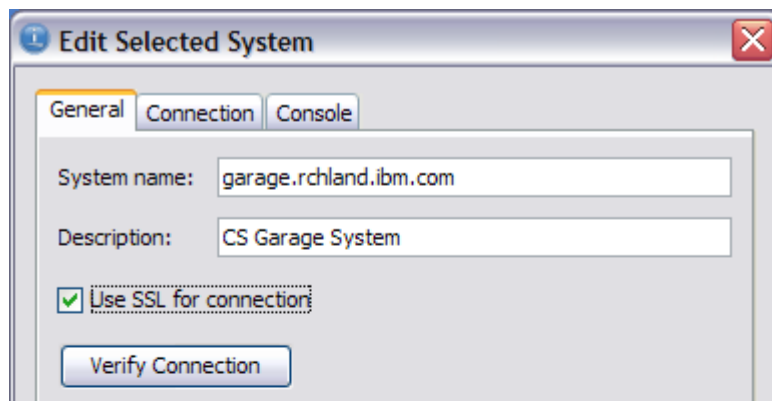


# Edit System Configuration



- **OK** - Saves the information changed and closes the panel
- **Apply** - Saves the information entered and the panel remains
- **Cancel** - Closes the panel without saving anything not saved

# Use SSL



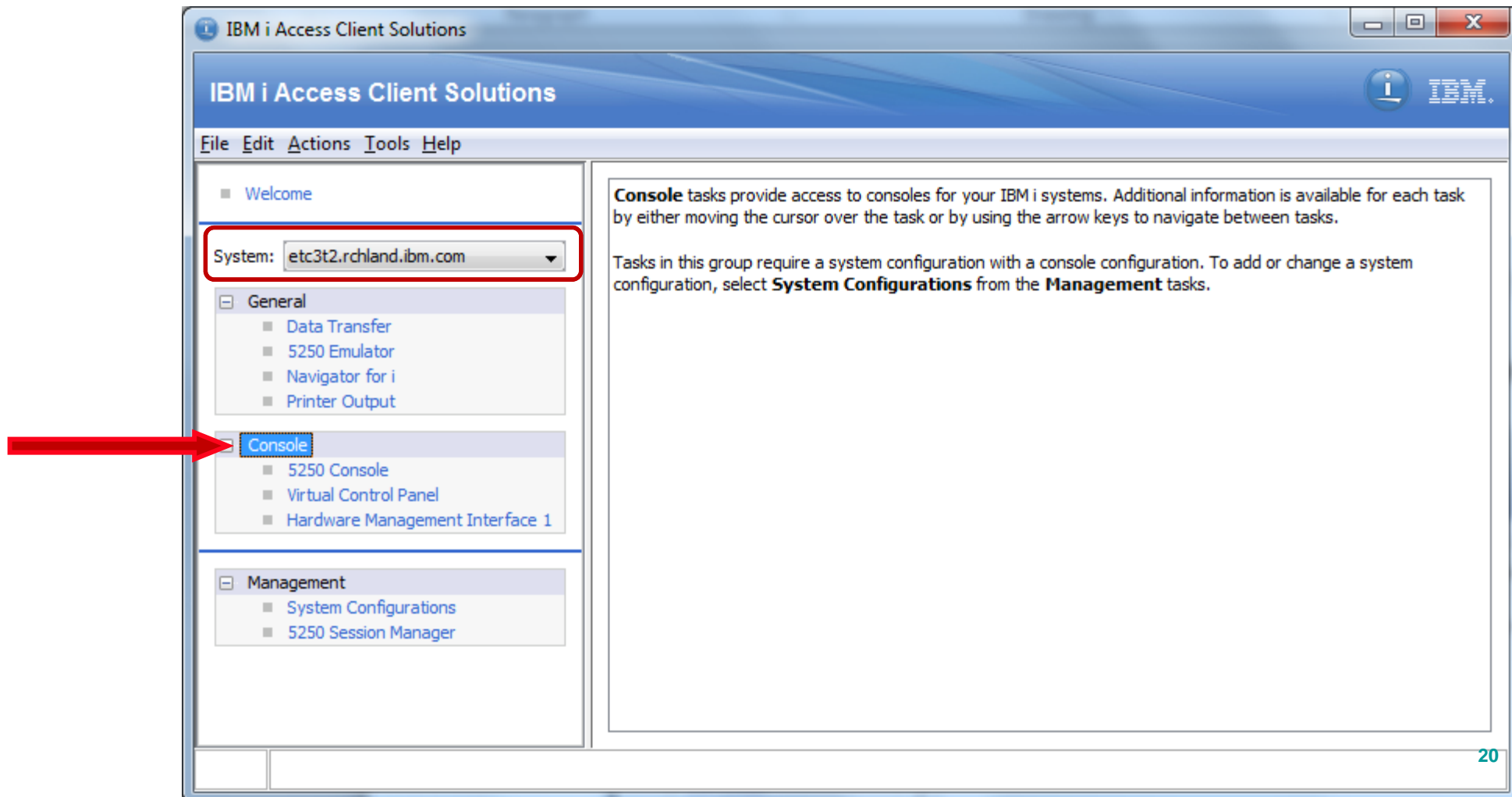
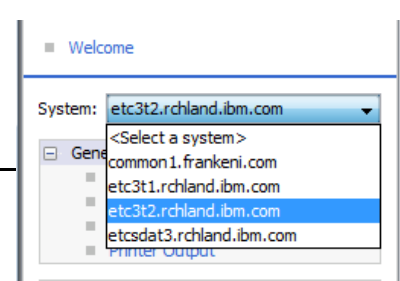
- Use SSL specifies that the connection will be secured
- If the Certificate Authority negotiated is not trusted, the user will be prompted to add to trusted list
- There still is a Key Management utility if needed

# Console



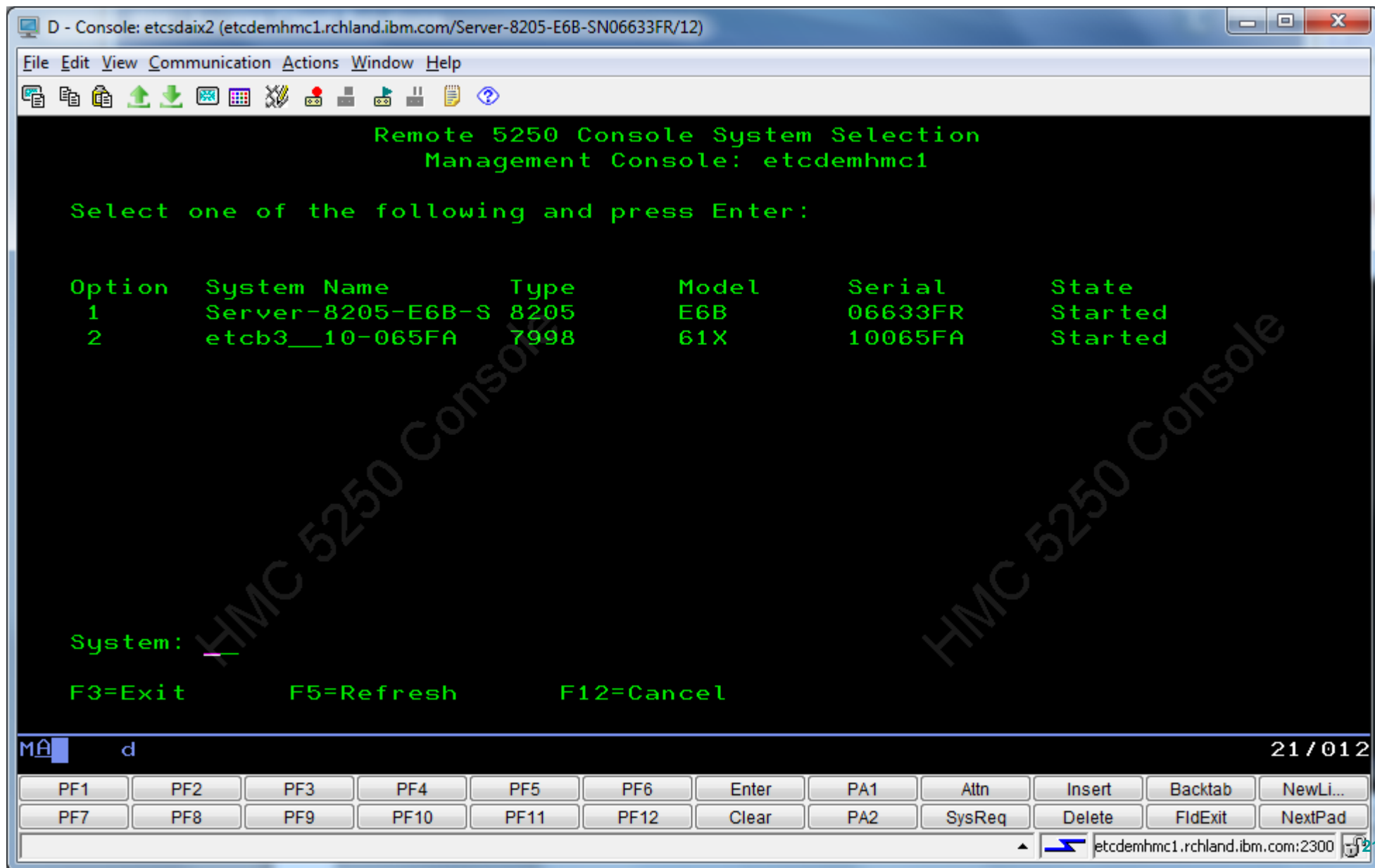
# Console

- **5250 Console** – Opens a interactive console to the current system
- **Virtual Control Panel** – Opens a Virtual Control Panel if LAN Console is used for the current System
- **Hardware Management Interface 1** – Opens a web browser to the management console specified for the current System



# 5250 Console

## 5250 HMC Console



D - Console: etcsdaix2 (etcdemhmc1.rchland.ibm.com/Server-8205-E6B-SN06633FR/12)

File Edit View Communication Actions Window Help

Remote 5250 Console System Selection  
Management Console: etcdemhmc1

Select one of the following and press Enter:

Option	System Name	Type	Model	Serial	State
1	Server-8205-E6B-S	8205	E6B	06633FR	Started
2	etcb3__10-065FA	7998	61X	10065FA	Started

System:   

F3=Exit      F5=Refresh      F12=Cancel

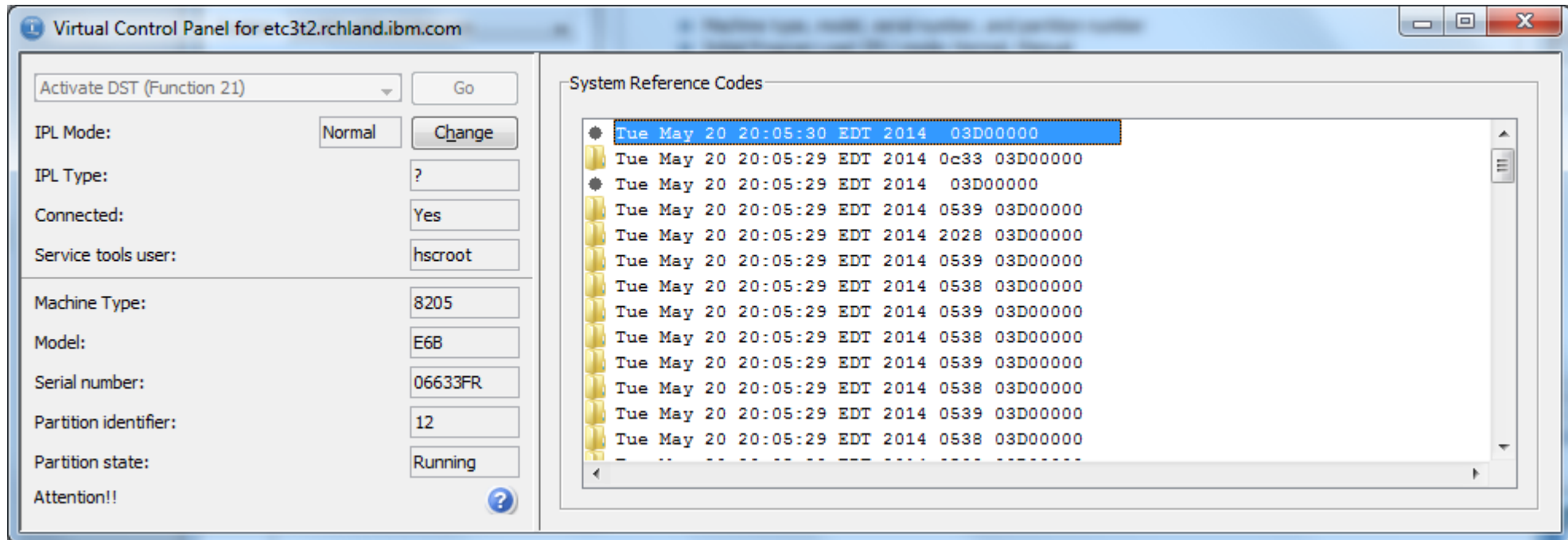
MA d 21 / 012

PF1	PF2	PF3	PF4	PF5	PF6	Enter	PA1	Attn	Insert	Backtab	NewLi...
PF7	PF8	PF9	PF10	PF11	PF12	Clear	PA2	SysReq	Delete	FldExit	NextPad

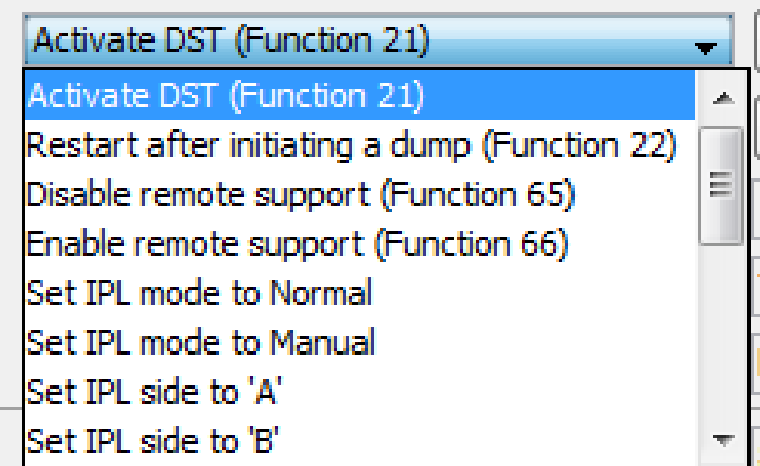
etcdemhmc1.rchland.ibm.com:2300

# Virtual Control Panel

- Virtual Control Panel

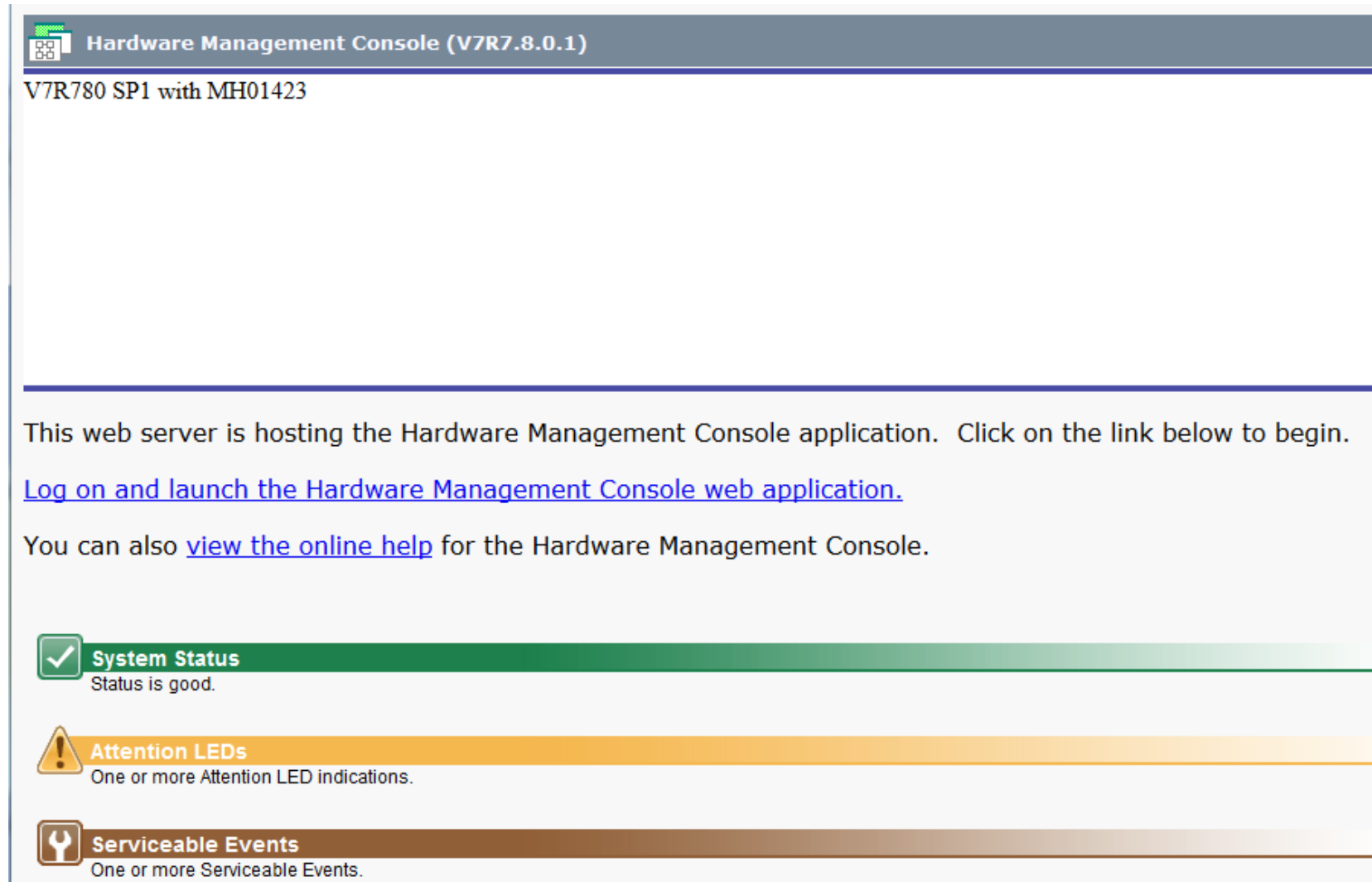


- Service Functions
  - Options for service commands
    - instead of providing the up and down arrows and enter



# Hardware Management Console Interface




- Quickly launch a browser to the HMC for the selected system configuration



**Hardware Management Console (V7R7.8.0.1)**  
V7R780 SP1 with MH01423

This web server is hosting the Hardware Management Console application. Click on the link below to begin.  
[Log on and launch the Hardware Management Console web application.](#)

You can also [view the online help](#) for the Hardware Management Console.

-  **System Status**  
Status is good.
-  **Attention LEDs**  
One or more Attention LED indications.
-  **Serviceable Events**  
One or more Serviceable Events.



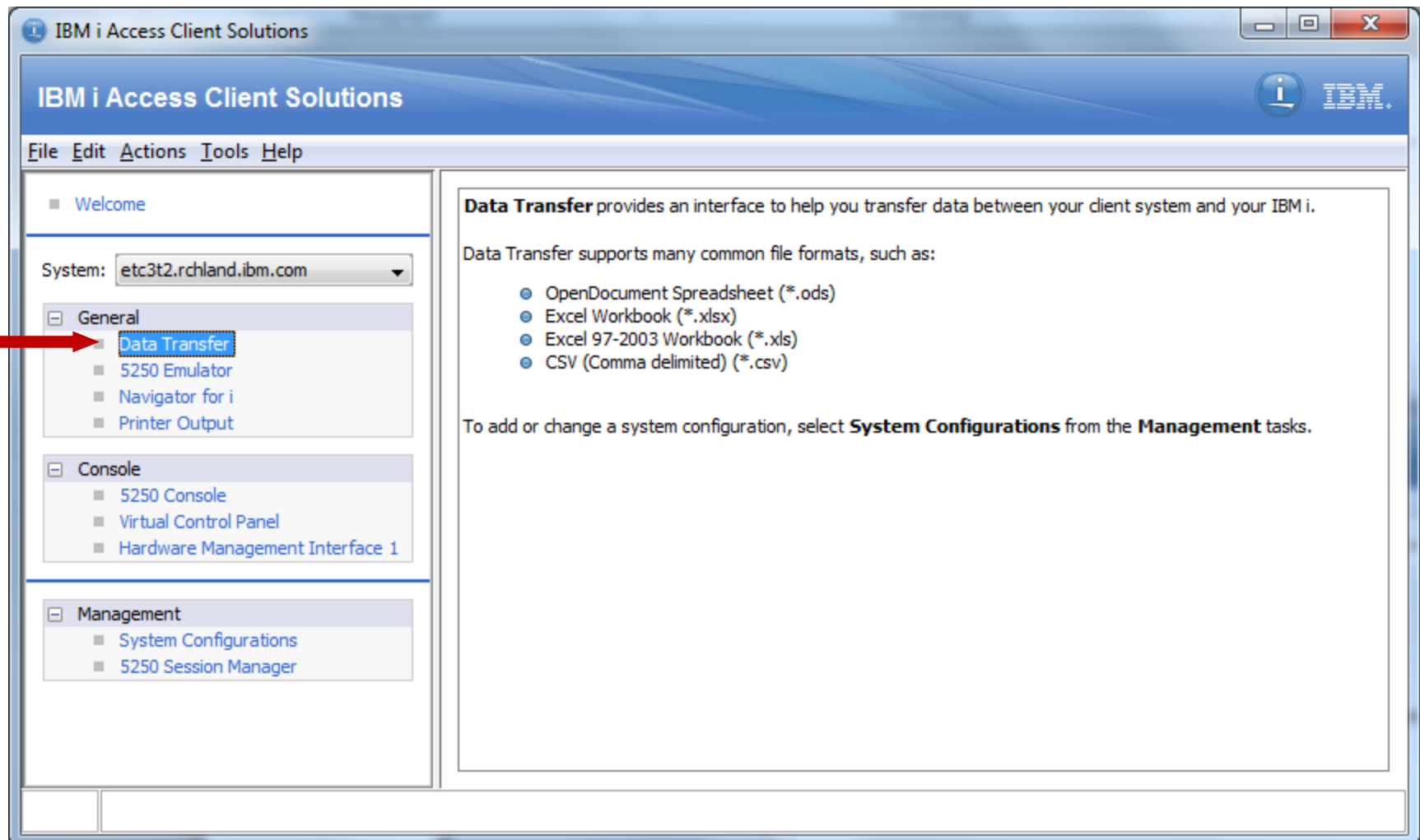
# Data Transfer





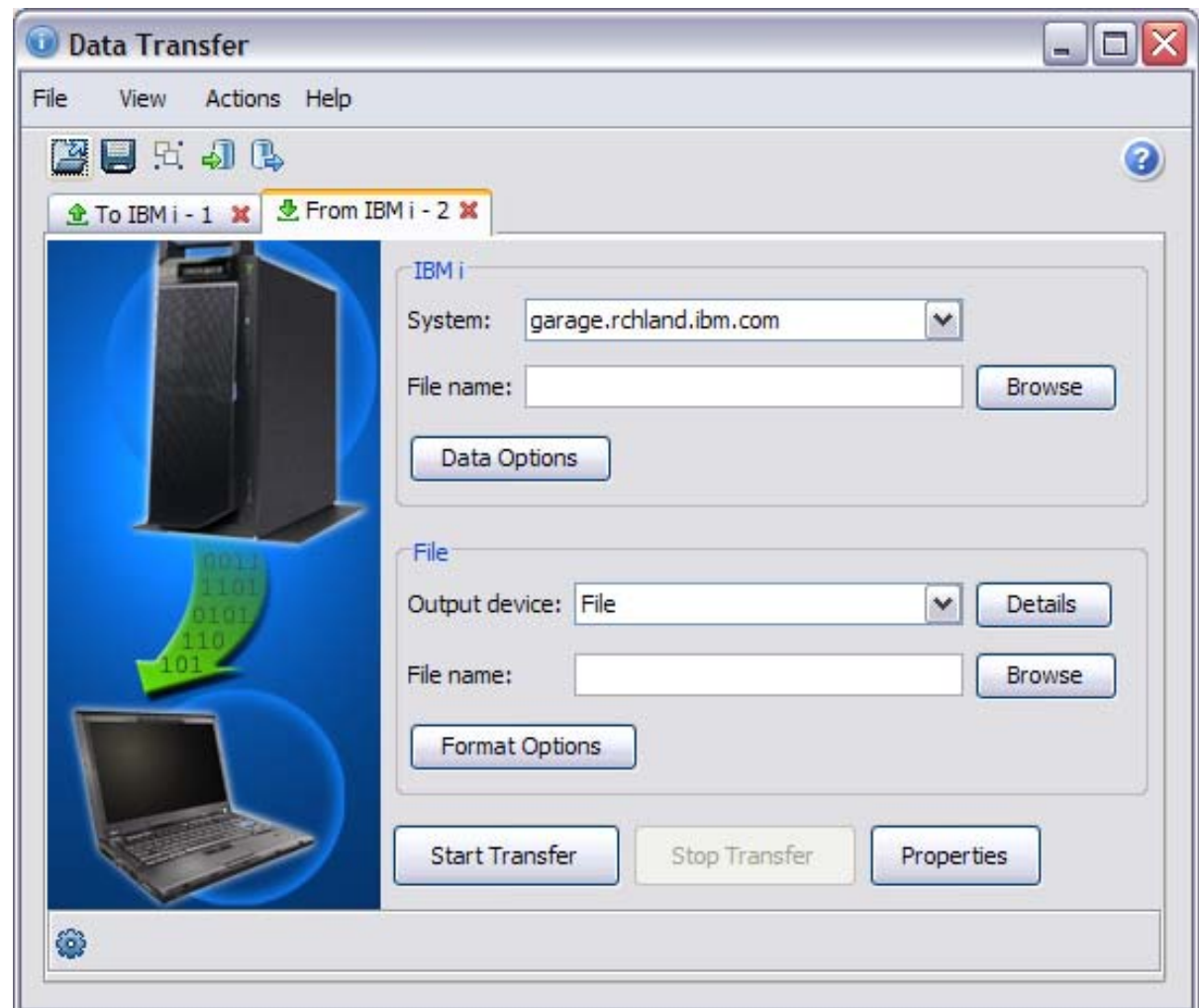
# Data Transfer

- Select the Data Transfer option
  - Will default to the current System



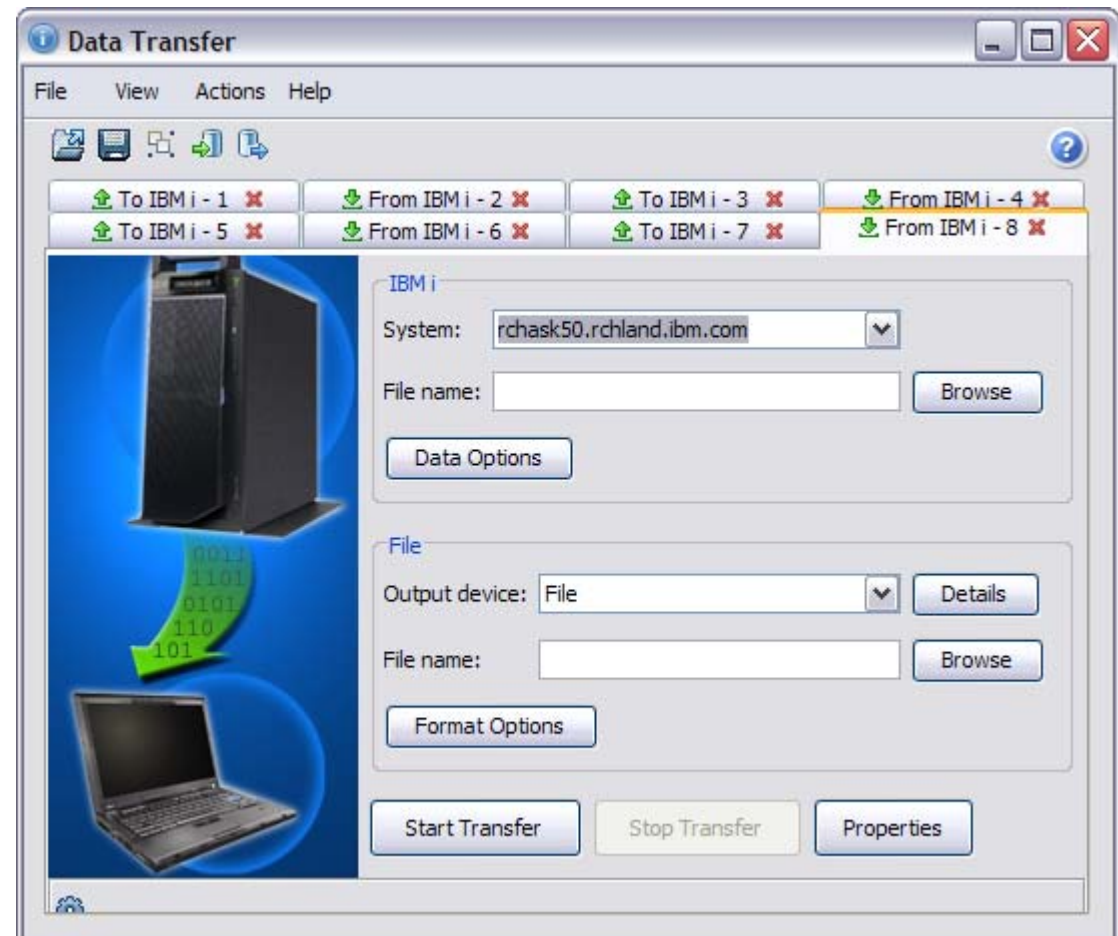
# Data Transfer

- Displays the Data Transfer interaction panel
  - Starts out with a Data Transfer to IBM i and Data Transfer from IBM i tab to the current System on the main panel



# Data Transfer

- Data Transfer interaction panel
  - All active Data Transfer requests are displayed in a tab on this panel
  - Open Saved Requests
  - Save Requests
  - Create IBM i Files
  - Data Transfer Migration

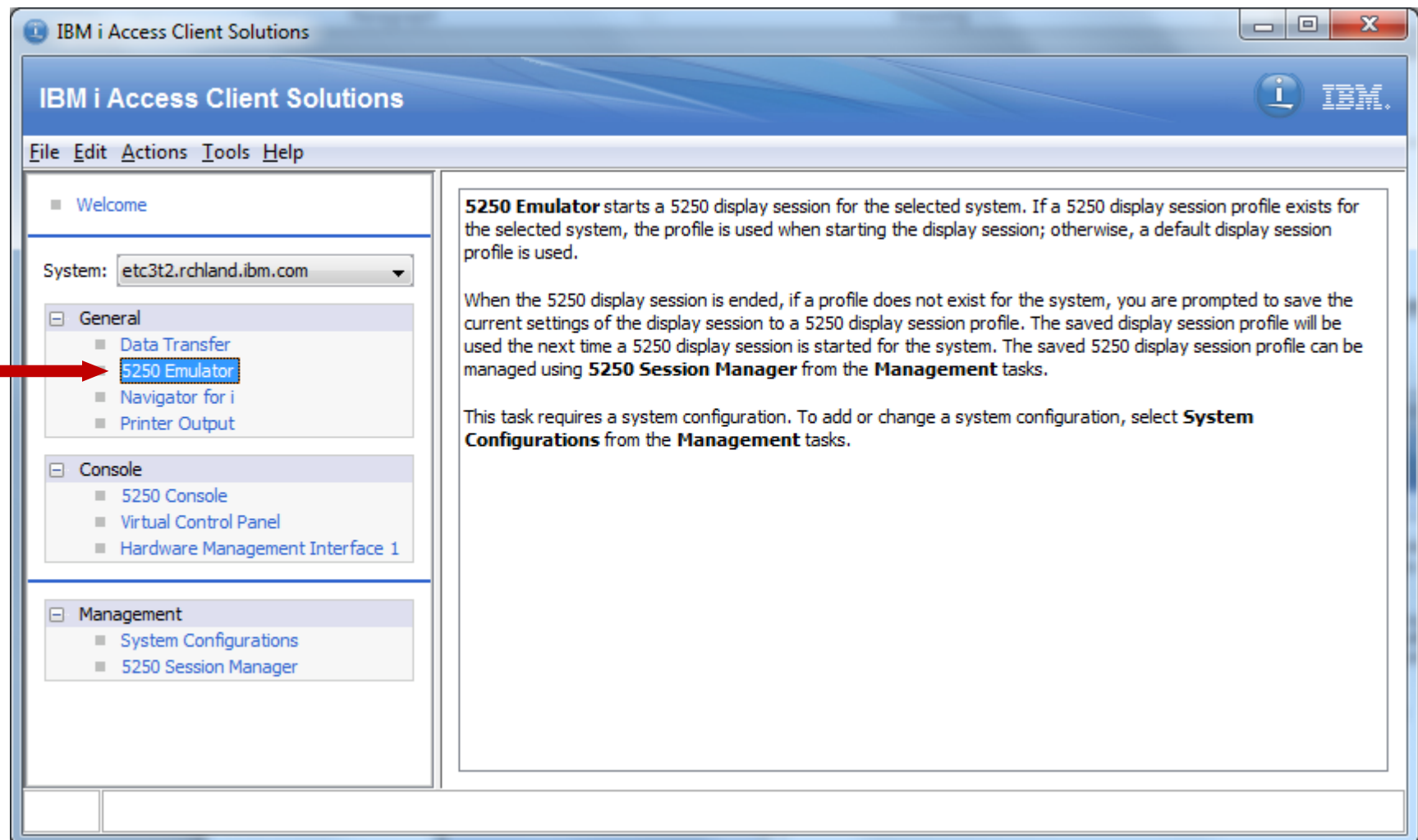


# 5250 Emulation



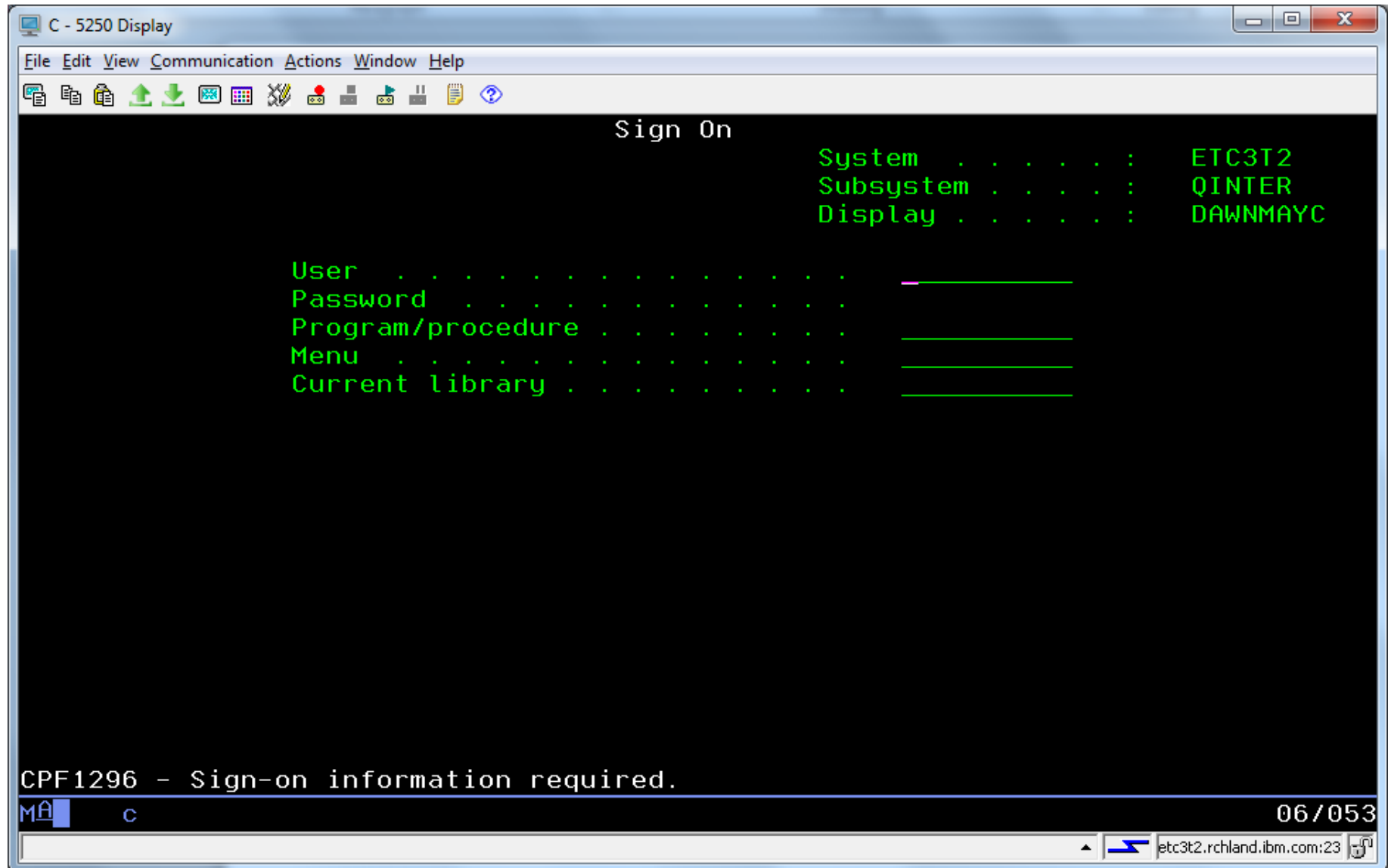
# 5250 Emulation

- Opens an IBM Rational Host On Demand 5250 Telnet session to the current System

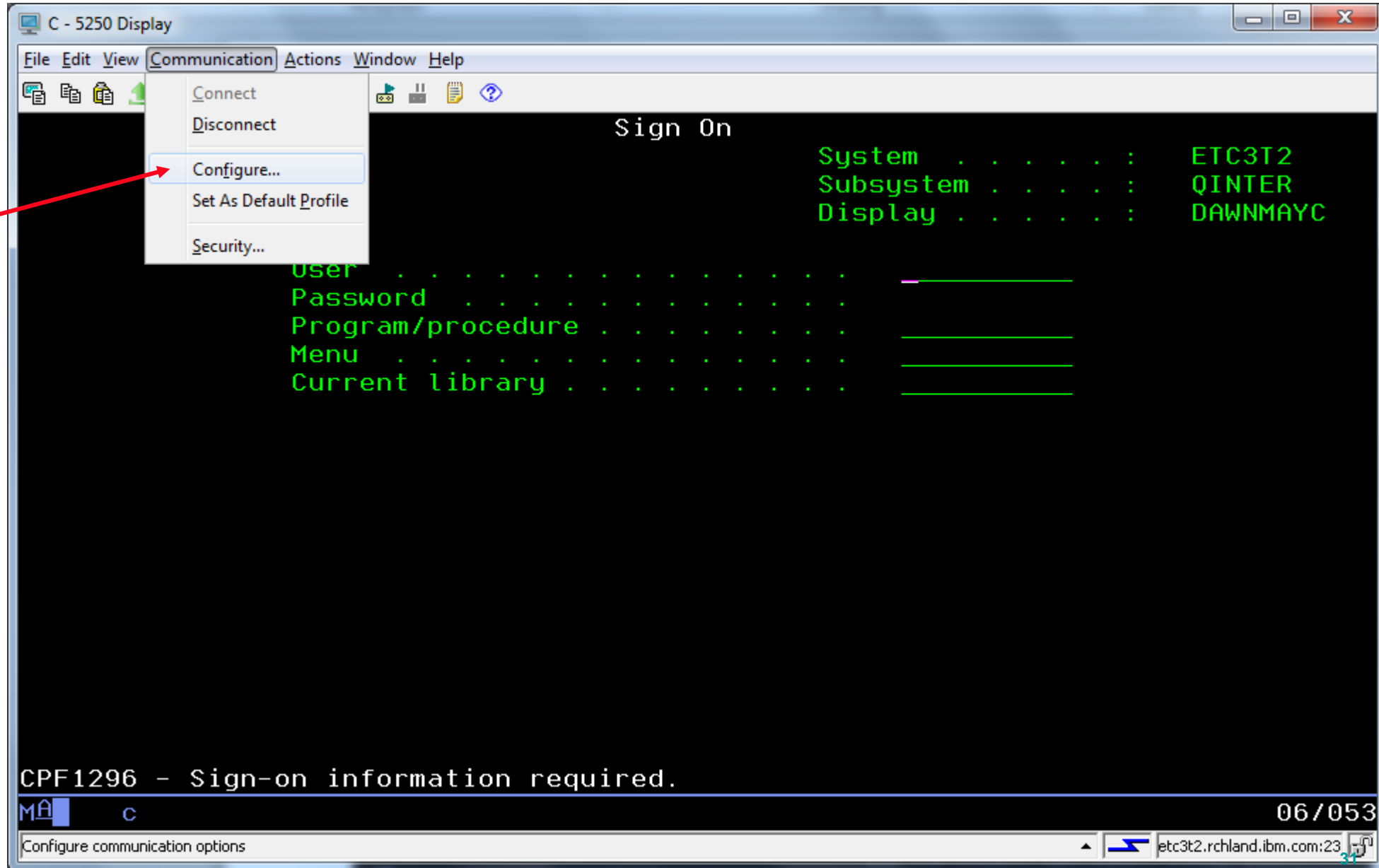


# 5250 Emulation

Provides nearly identical interaction, look and feel to the Access for Windows PC5250 emulator



# 5250 Emulation - Configuration



The screenshot shows a window titled "C - 5250 Display" with a menu bar (File, Edit, View, Communication, Actions, Window, Help) and a toolbar. The "Communication" menu is open, showing options: Connect, Disconnect, **Configure...** (highlighted with a red arrow), Set As Default Profile, and Security... The main display area shows a green-on-black "Sign On" screen with the following text:

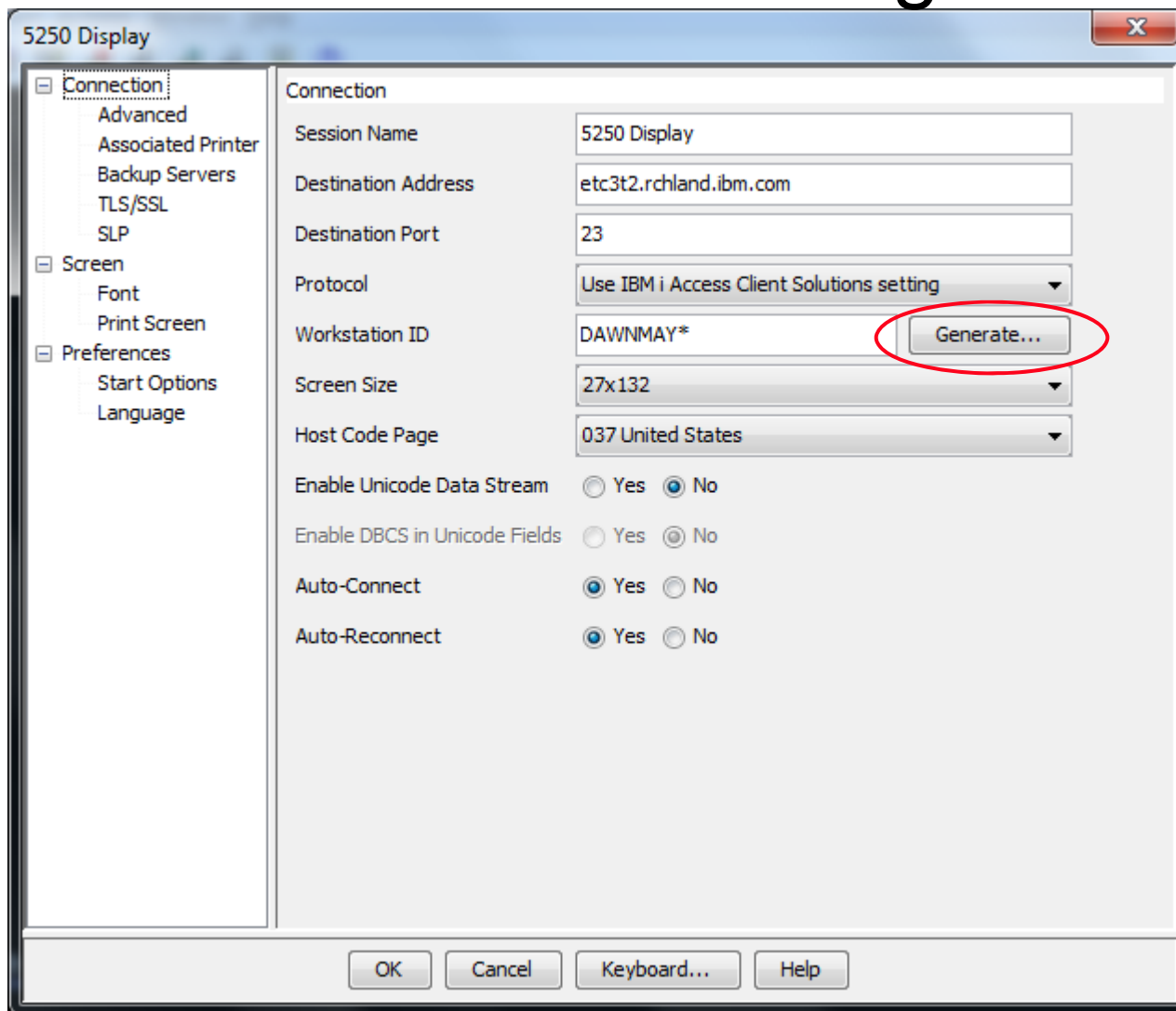
```

Sign On
System . . . . . : ETC3T2
Subsystem . . . . . : QINTER
Display . . . . . : DAWNMAYC

User . . . . . : _____
Password . . . . . : _____
Program/procedure . . . . . : _____
Menu . . . . . : _____
Current library . . . . . : _____
    
```

At the bottom of the screen, the message "CPF1296 - Sign-on information required." is displayed. The status bar at the bottom shows "Configure communication options" and a connection address "etc3t2.rchland.ibm.com:23".

# 5250 Emulation - Configuration



**5250 Display**

**Connection**

Session Name: 5250 Display

Destination Address: etc3t2.rchland.ibm.com

Destination Port: 23

Protocol: Use IBM i Access Client Solutions setting

Workstation ID: DAWNMAY\* **Generate...**

Screen Size: 27x132

Host Code Page: 037 United States

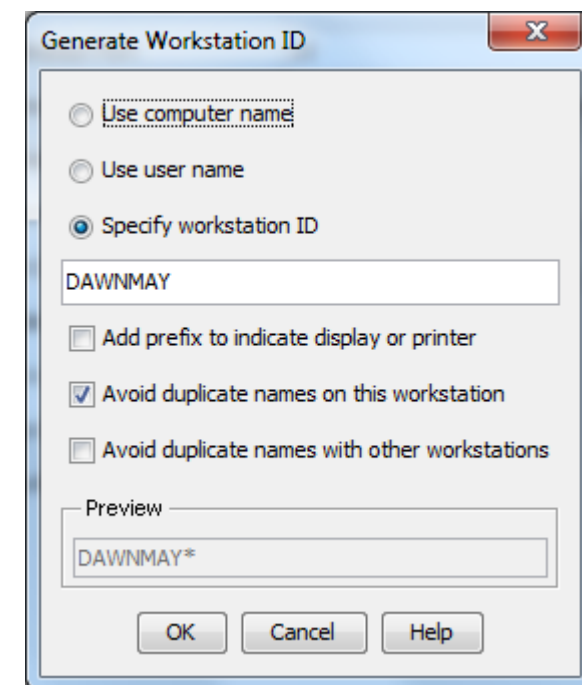
Enable Unicode Data Stream:  Yes  No

Enable DBCS in Unicode Fields:  Yes  No

Auto-Connect:  Yes  No

Auto-Reconnect:  Yes  No

OK Cancel Keyboard... Help



**Generate Workstation ID**

Use computer name

Use user name

Specify workstation ID

DAWNMAY

Add prefix to indicate display or printer

Avoid duplicate names on this workstation

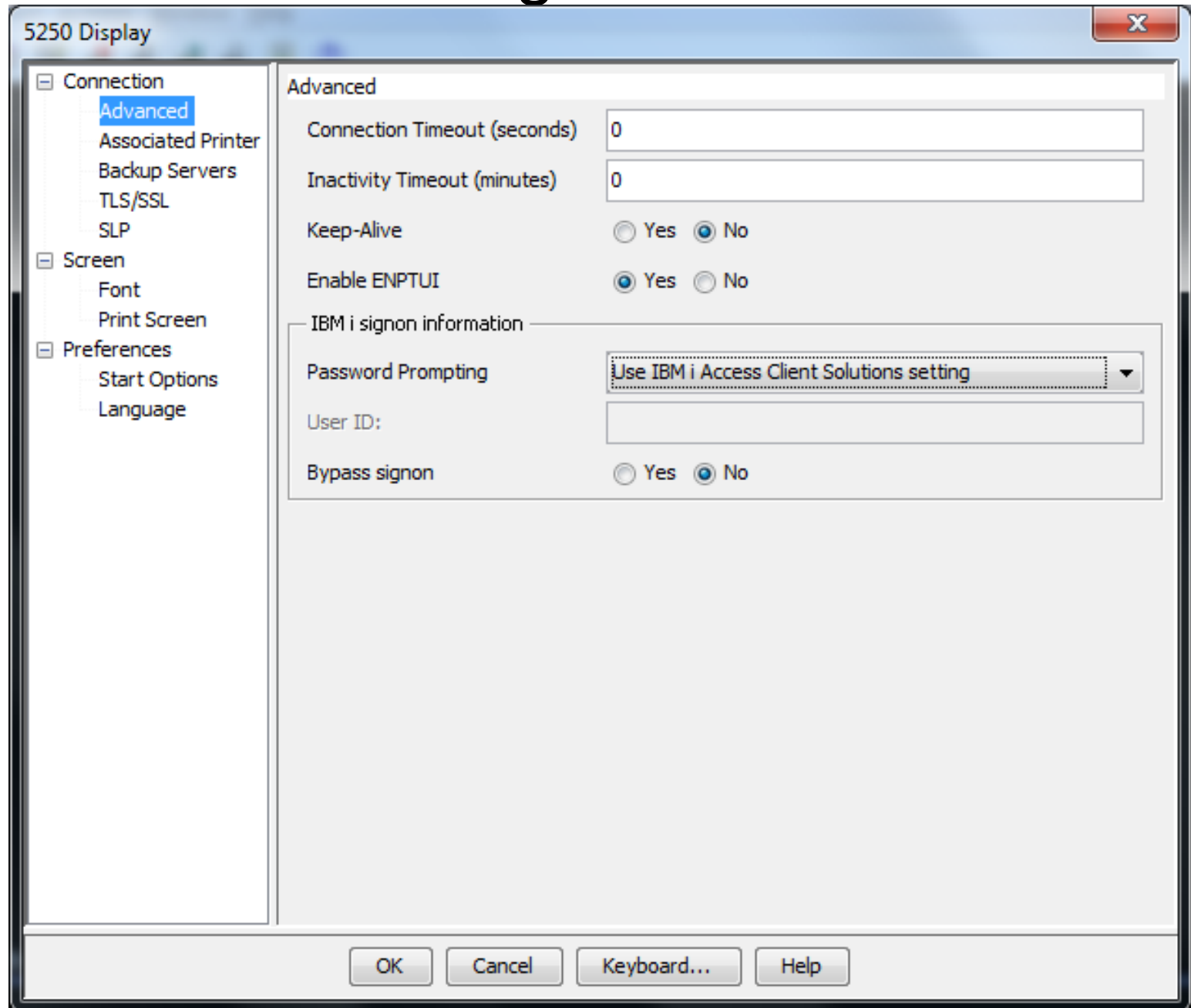
Avoid duplicate names with other workstations

Preview: DAWNMA\*

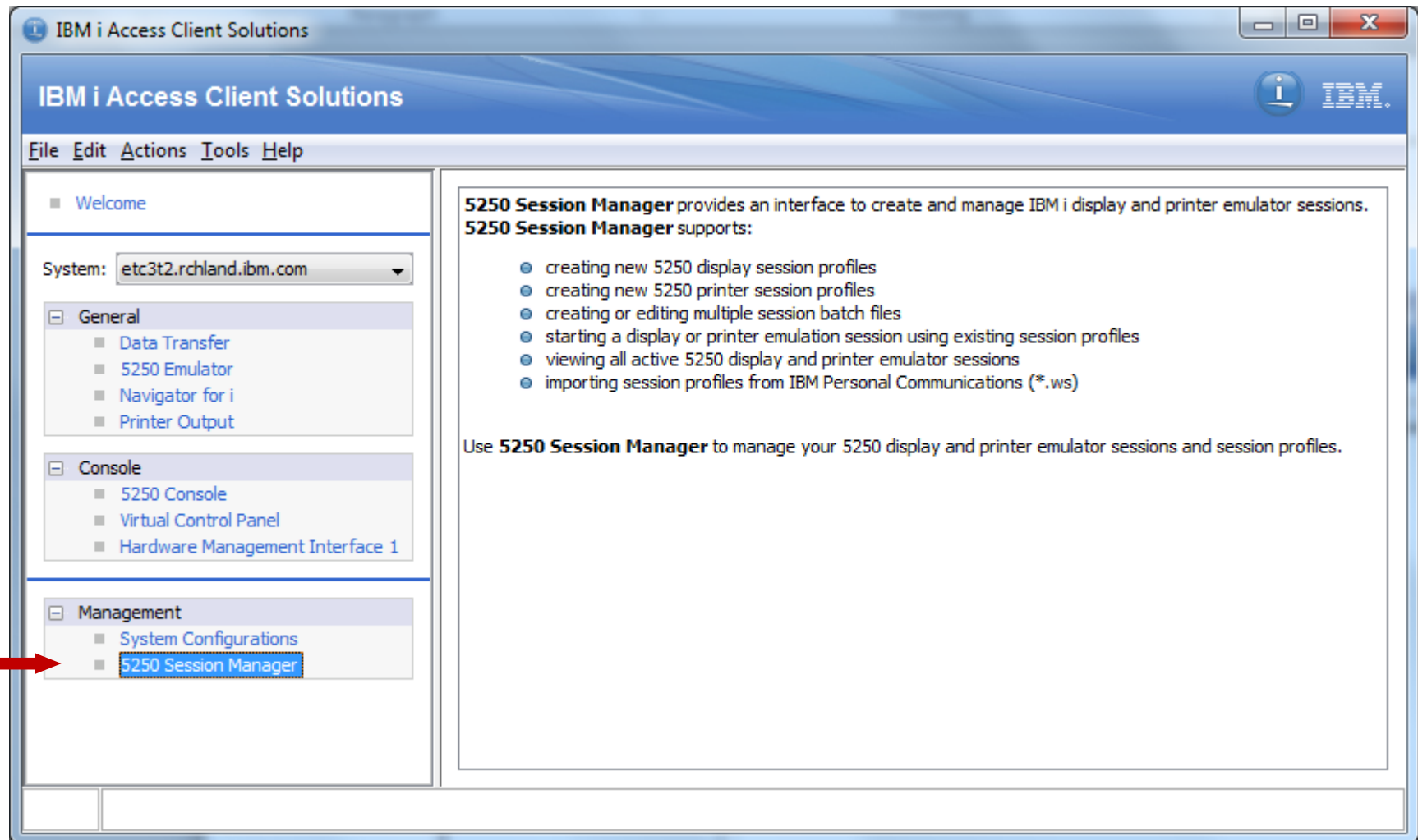
OK Cancel Help



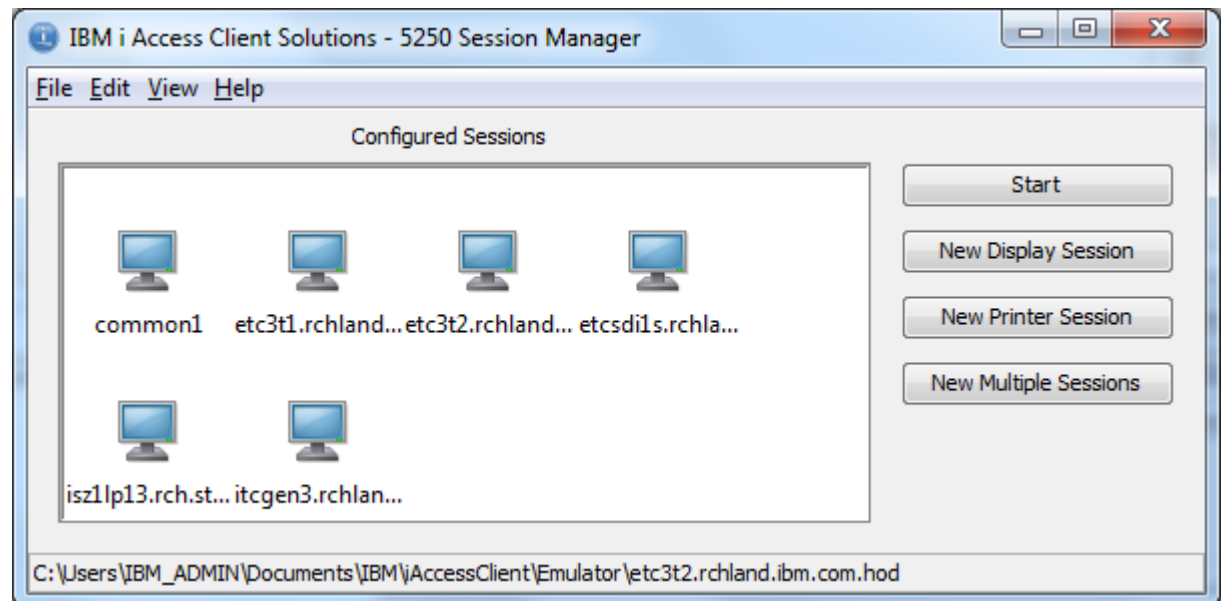
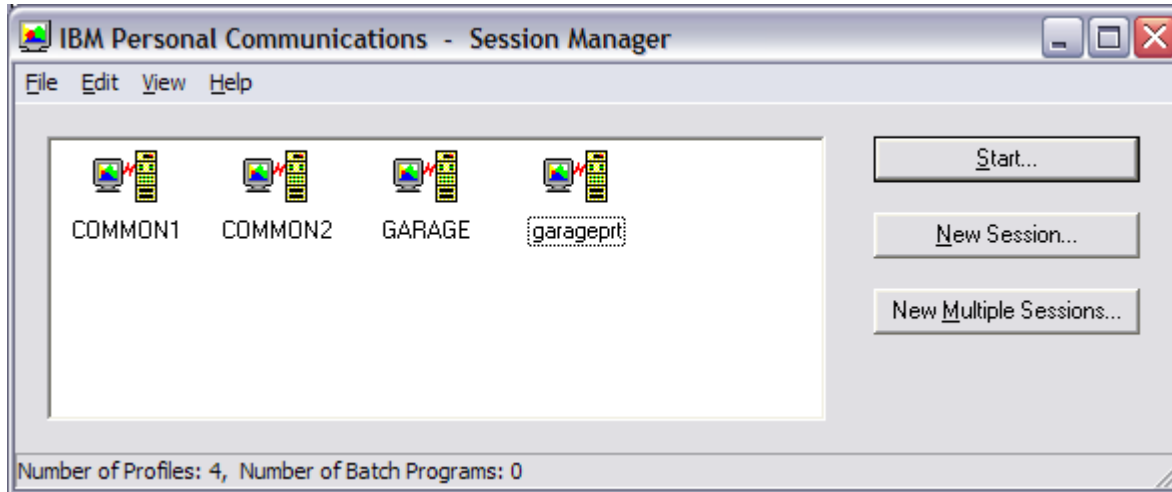
# 5250 Emulation - Configuration



# 5250 Emulation - Session Manager

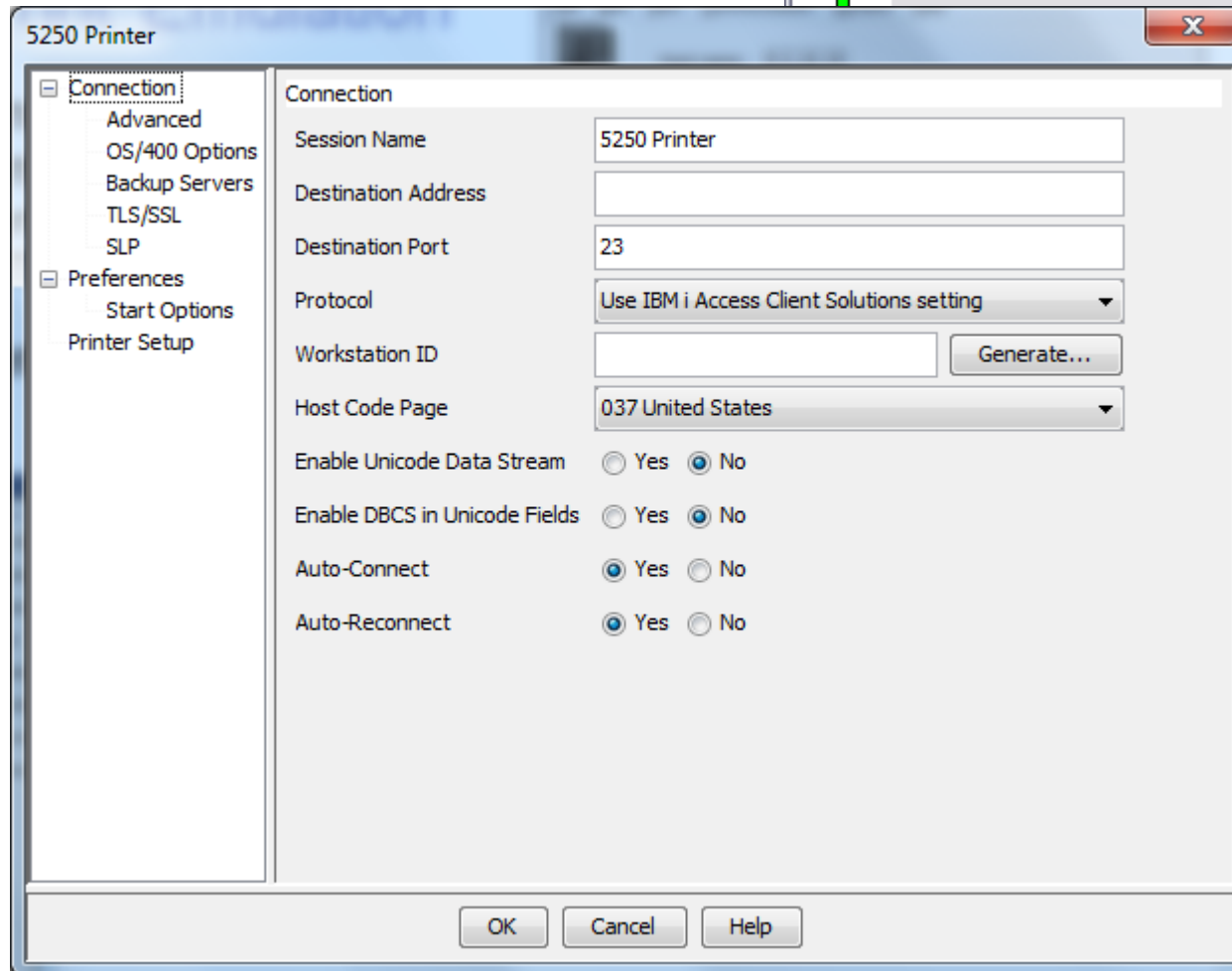
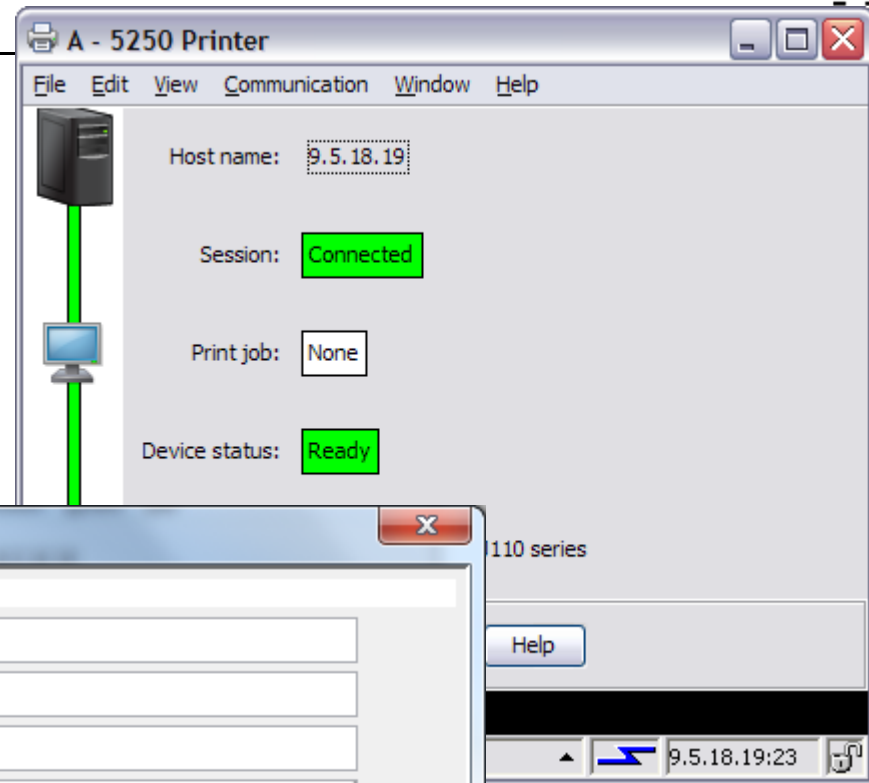


# 5250 Emulation - Session Manager



# 5250 Print Emulation

- Printer emulation is currently basic

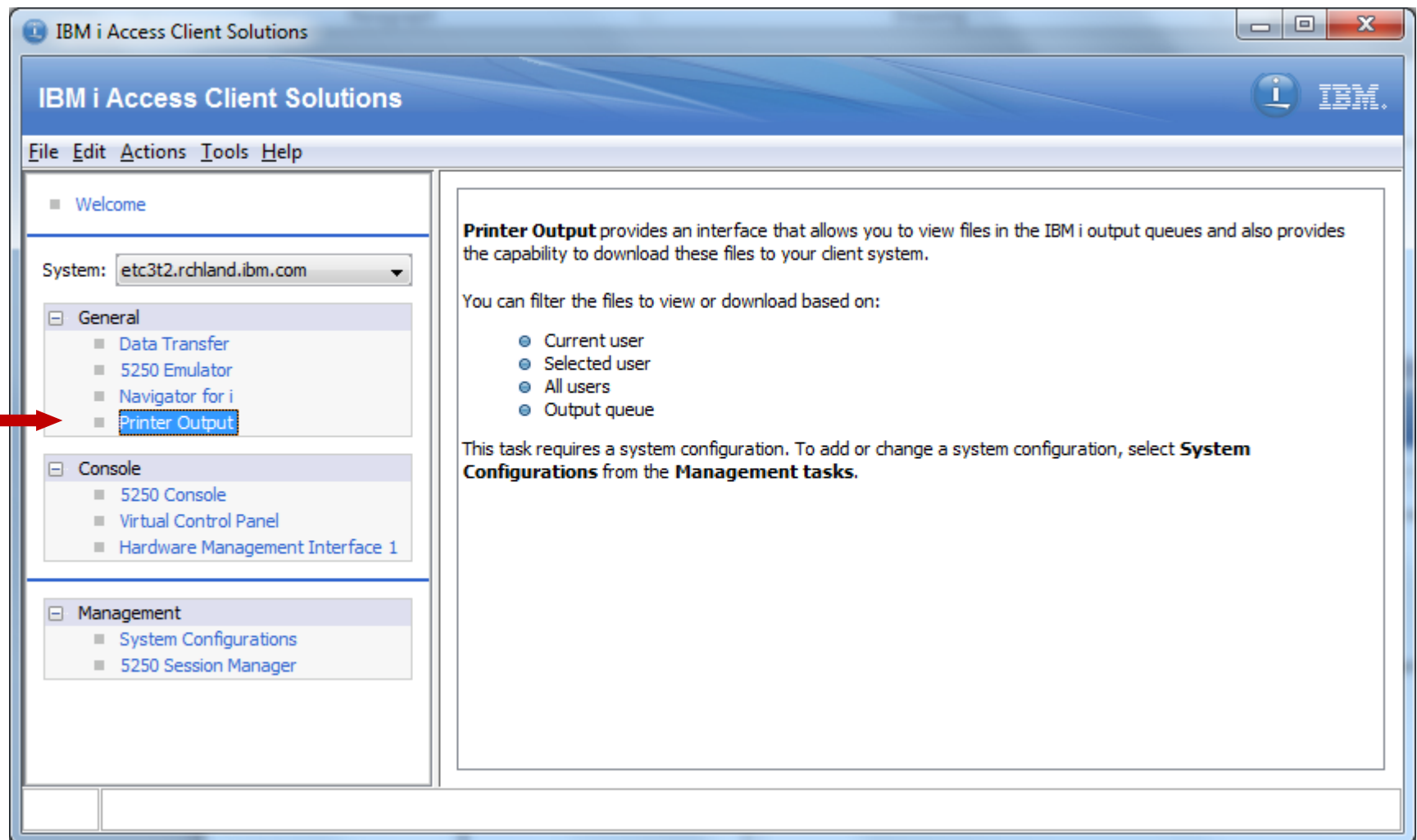


# Printer Output



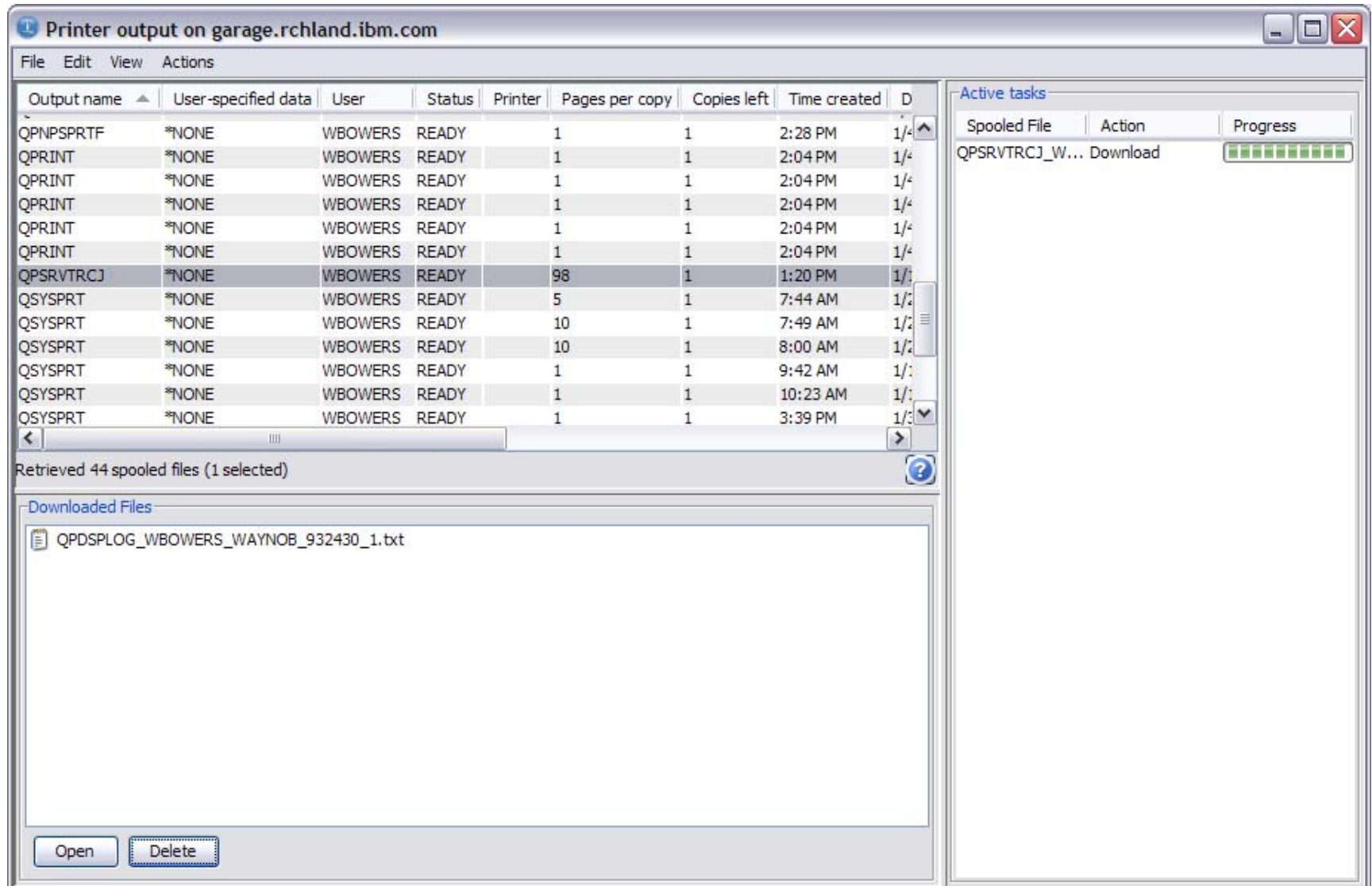
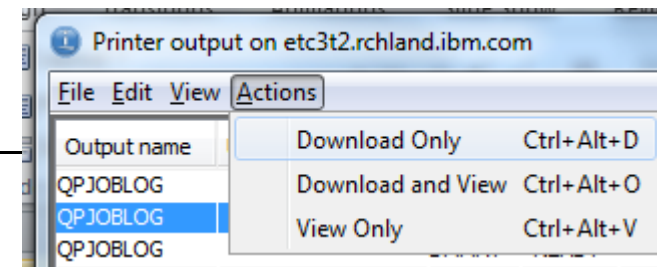
# Printer Output

Lists and allows interaction with the printer output on the IBM i partition.

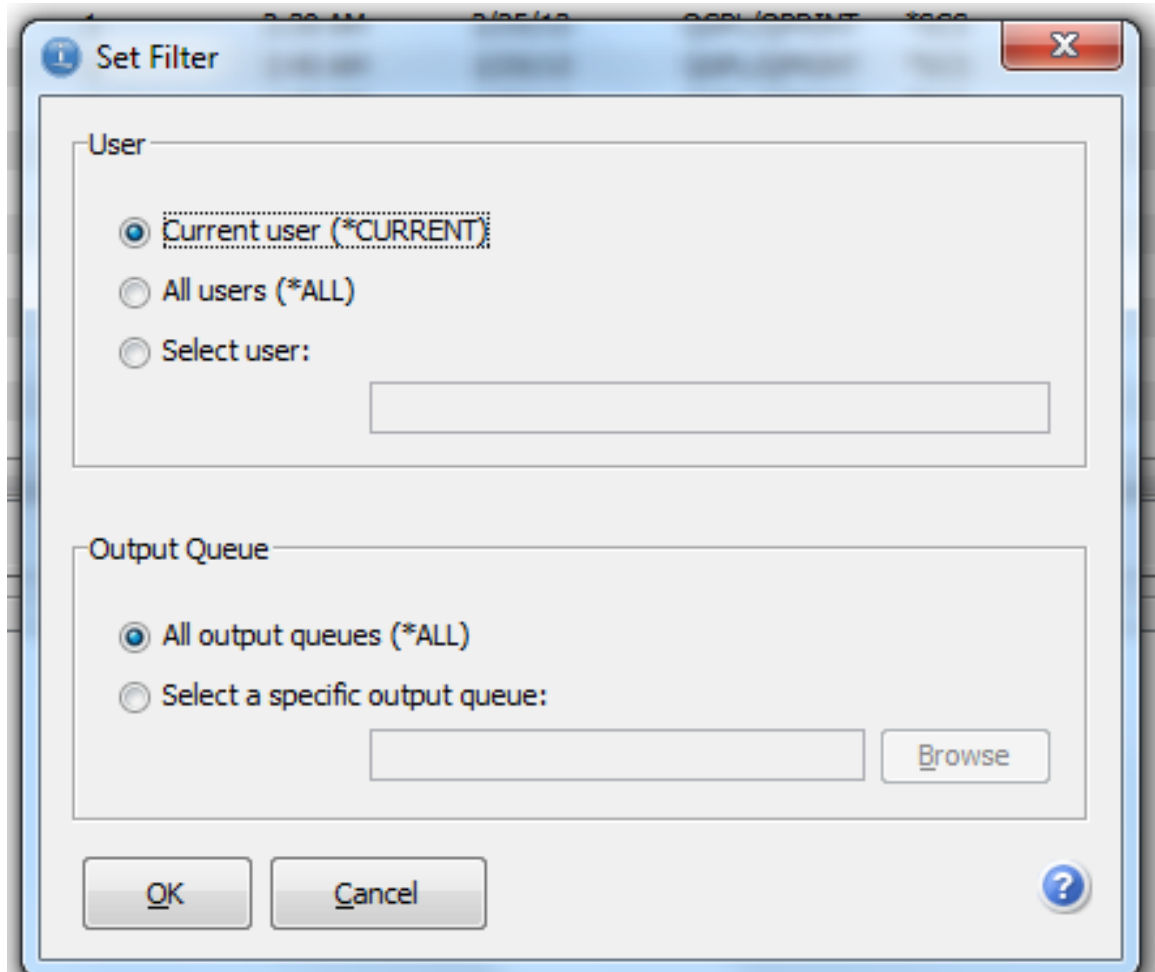
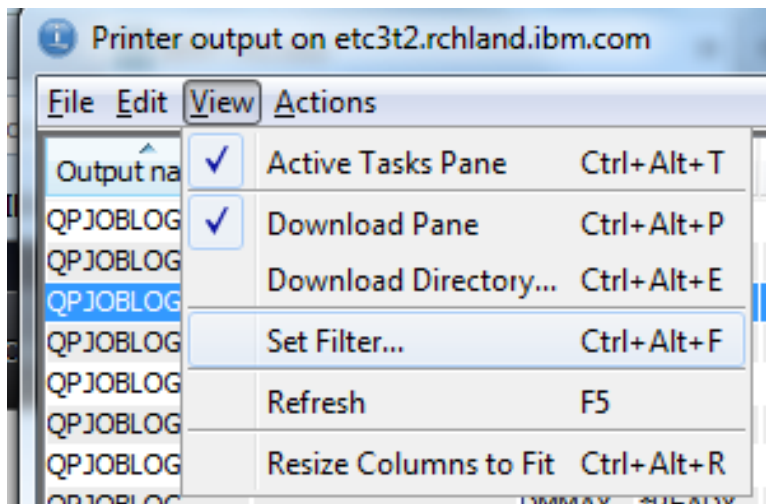


# Printer Output

- Printer Output user interface
  - Allows the user to view, and download spooled files.

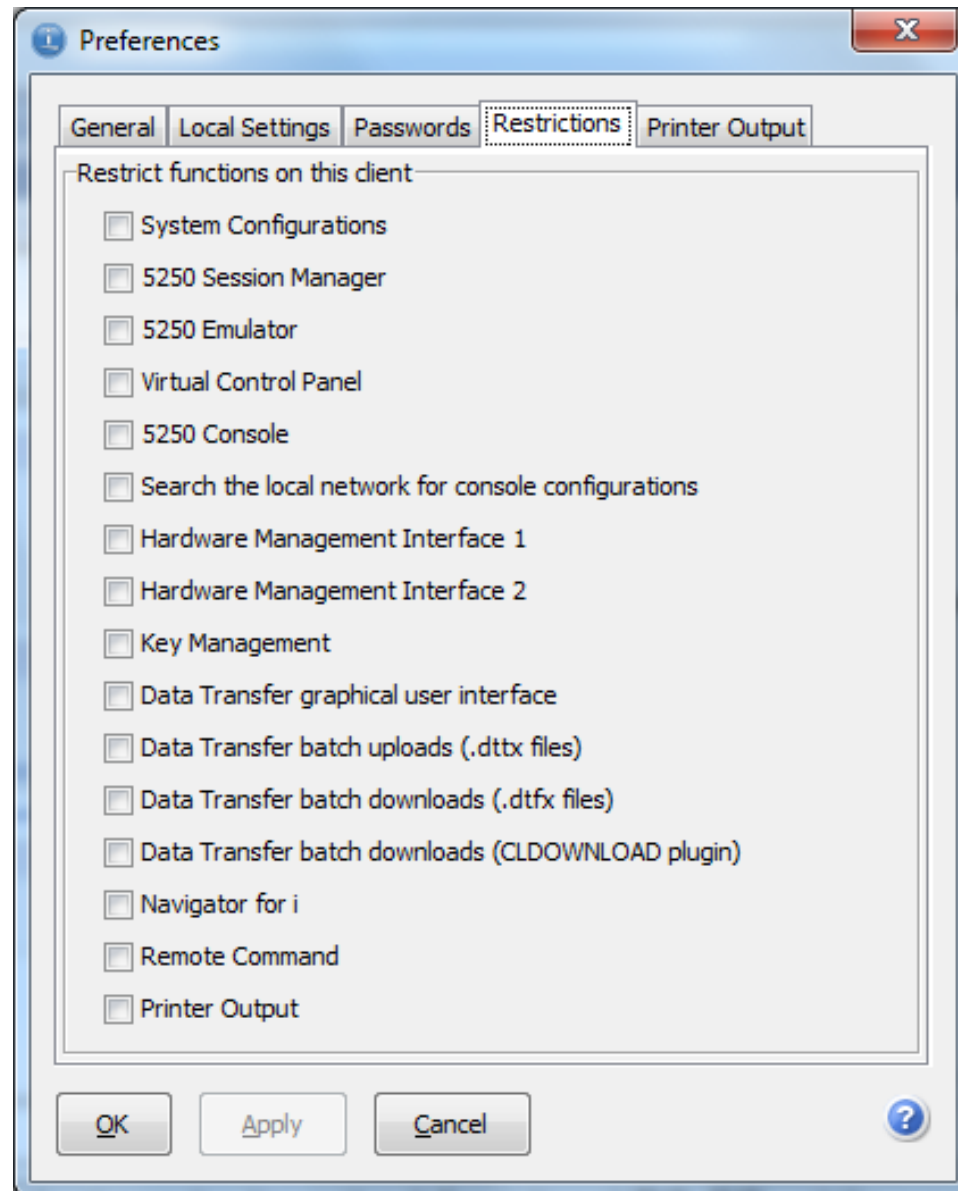
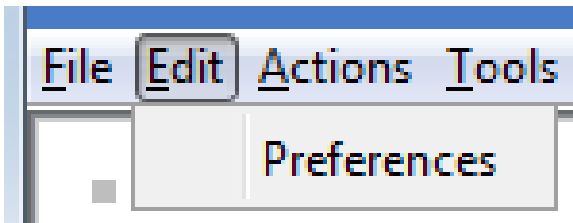


# Printer Output – Set Filter



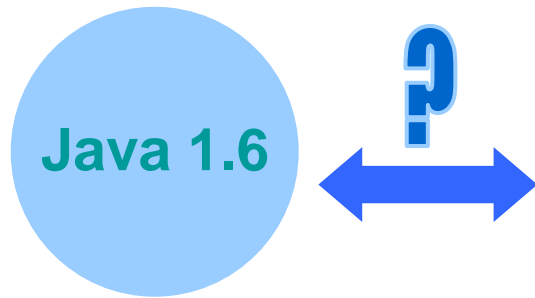


# Preferences - Restrictions



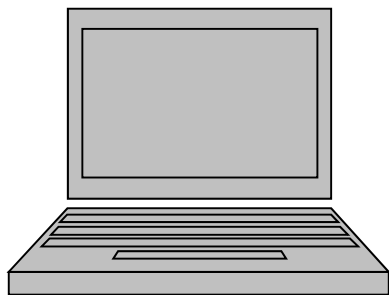
# Deployment





The product can be deployed in a variety of ways.

- With Java, without
- Config with product or on local PC
- Remove components as needed



**Product on Network  
Config & systems**



# Deployment

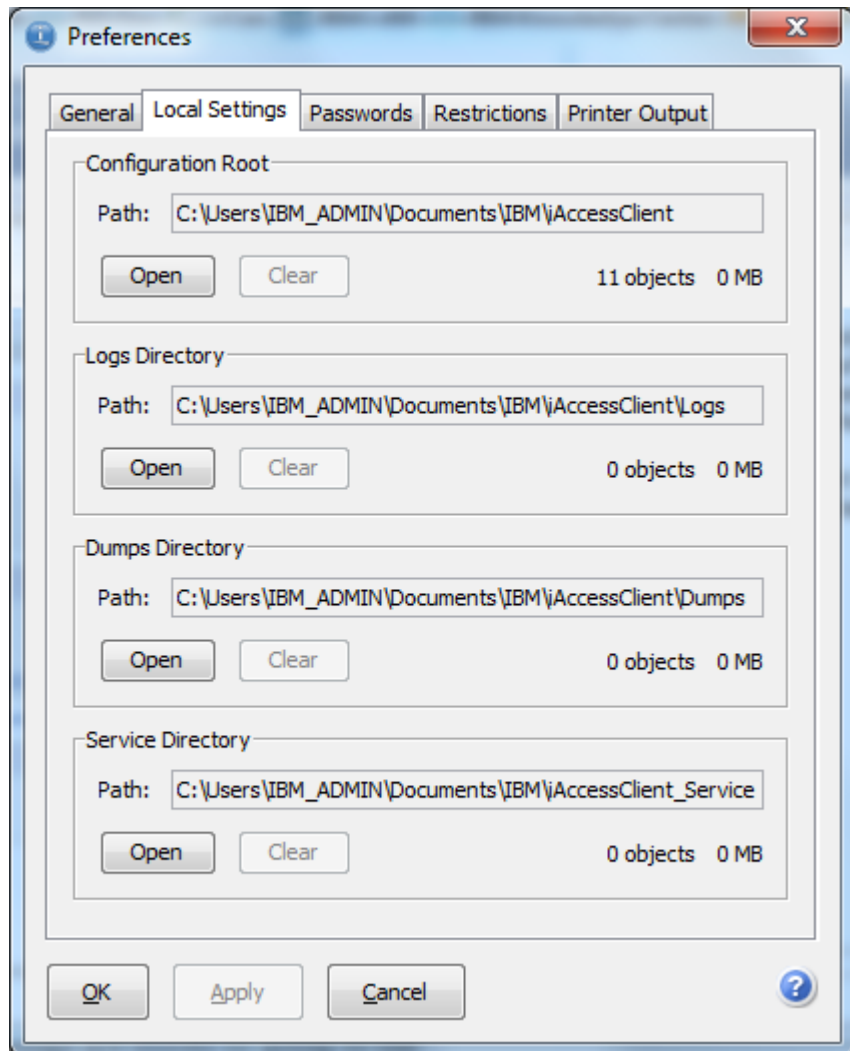
- IBM i Access Client Solutions is not installed to the client operating system, it is *deployed*.
  - There is no installation program for the core of the product.
- Access Client Solutions Deployment
  - The deployment involves the client bundle being placed wherever it is desired to be executed from, and determining where the product settings are going to be stored.
- Client Bundle
  - Contains the Java executable Jar, properties file, platform specific start executables and javascript start samples, product documentation, and licensing notices.
  - All that is required to be deployed is the Java executable Jar
  - The rest is optional
- No JRE distributed
  - IBM i Access Client Solutions does not deploy a specific JRE
  - Relies on a Java 1.6 or higher JRE to be accessible on the client OS

# Deployment

- There are 2 main things that can be controlled with the IBM i Access Client Solutions deployment
  - Where the product is launched from
  - Where the user's configuration is stored
- Both of these locations can basically be anywhere desired
  - Local PC Operating System
  - Network Share File System
  - Portable Media or Thumb Drive
- They can be located in different places
  - Product can be launched from local PC OS, while configuration is stored on a Network file system
- Or in the same location
  - Product can be launched with configuration files all stored on a USB Thumb Drive

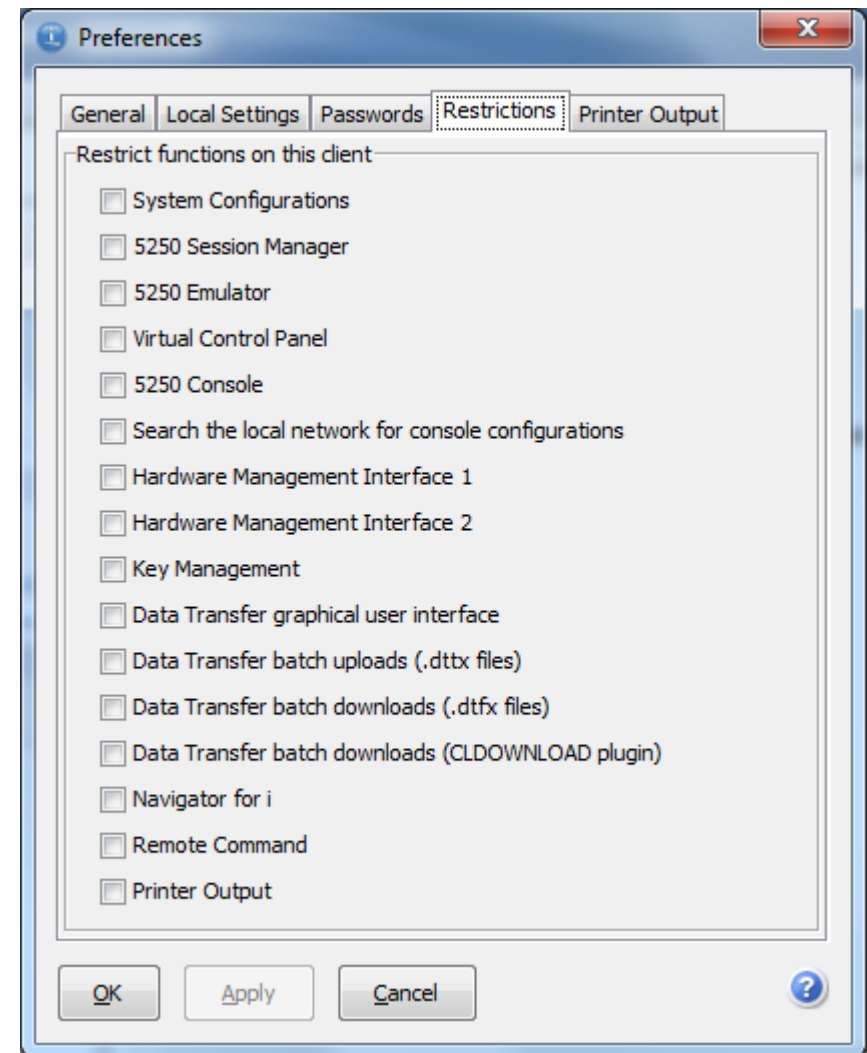
# Deployment – User Configuration: Default

- By default, user configurations are stored in a local directory



# Restrictions












- You can restrict the function available via the GUI
- You can also edit the properties files to configure restrictions





# Deployment – User Configuration ...

- Edit the AcsConfig.properties file to specify where the user configuration file is stored.
- Review this file for other interesting configuration

 Documentation	File folder
 Icons	File folder
 License	File folder
 Linux_Application	File folder
 Mac_Application	File folder
 Notices	File folder
 properties	File folder
 Start_Programs	File folder
 Start_Scripts	File folder
 acsbundle.jar	Executable Jar File
 AcsConfig.properties	PROPERTIES File

```

AcsConfig.properties - Notepad
File Edit Format View Help
# com.ibm.iaccess.AcsBaseDirectory determines the configuration location.
#
# Special keywords are provided which can be used when defining the configuration
# path. When the keywords are used in the specified path, the keywords will be
# substituted with the text or path they define. Only one keyword can be used
# in the configuration path. The special keywords and their meanings are:
# {USER} - The current user id. This keyword can be anywhere in the path
# The following keywords can only be at the beginning of the specified path:
# {PRODUCTDIR} - the path to the same directory as acsbundle.jar
# {TEMPDIR} - the path to a platform specific temporary directory
# {ROOT} - the path to the root of the file system
# {HOME} - the path to the user's home directory
# {DEFAULT} - the default path the product would normally use
#
# Technical Note:
# We do not recommend sharing a configuration between multiple users.
# For example, if X were a shared network drive, the following setting may
# cause unpredictable results:
# com.ibm.iaccess.AcsBaseDirectory=X:/Shared_Network_drive/config_directory
# There are several problems with multiple users sharing this configuration path:
# 1. Unpredictable results will occur if multiple users simultaneously use the
# configuration.
# 2. This example assumes each user has the X drive mapped to the same location.
# 3. Using a network drive in the configuration would not work from a Linux or
# Mac Client. Using the provided keywords, as in the examples below,
# will work on Windows, Linux and Mac.
#
# When sharing a configuration path between multiple users, the {USER}
# keyword should be used to avoid collisions with other users. It will
# be substituted with the user id of the current user.
#
# When setting the configuration path, use a forward slash ('/') instead of a
# backward slash ('\') as the directory separator. This will work on all
# operating systems including windows.
#
# Here are some recommended sample configurations:
#
# Example 1 - local configuration for current user (default):
# com.ibm.iaccess.AcsBaseDirectory=
# When AcsBaseDirectory is not set, the configuration defaults to a platform
# dependent path for the user.
# This is the default setting for IBM i Access Client Solutions.
#
# Example 2 - remote (or local) configuration unique for each user:
# com.ibm.iaccess.AcsBaseDirectory={ROOT}/config_directory/{USER}/
# The configuration will be remote or local based on the location of {ROOT}.
#
# Example 3 - remote (or local) configuration unique for each user:
# com.ibm.iaccess.AcsBaseDirectory={PRODUCTDIR}/config_directory/{USER}/
# The configuration will be remote or local based on the location of {PRODUCTDIR}.
#
# Example 4 - local configuration on portable media (like USB drive):
# com.ibm.iaccess.AcsBaseDirectory={PRODUCTDIR}/config_directory
# Since the path to the portable media will vary depending on the system where
# it is being used, this setting allows the configuration to be relative to
# the product files. In this example, the {USER} keyword was intentionally not
# specified so the configuration on the USB drive would be used by the user of
# the USB drive, regardless of the user ID.
#
com.ibm.iaccess.AcsBaseDirectory=
#
# The following properties may be used to automatically set up a configuration
# for new users or to update a configuration for existing users:
# com.ibm.iaccess.autoimport=<path-to-configuration-file>
# com.ibm.iaccess.autoimport.version=<version>
# See the GettingStarted document for more details.
#
# com.ibm.iaccess.ExcludeComps may be used to restrict the usage of specific functions.
# This gives system administrators the ability to prevent specific functions from
# being available to their users. Setting this property will remove the specified
# functions from the main GUI and will disable their usage from the command line.

```



# IBM i Mobile Access

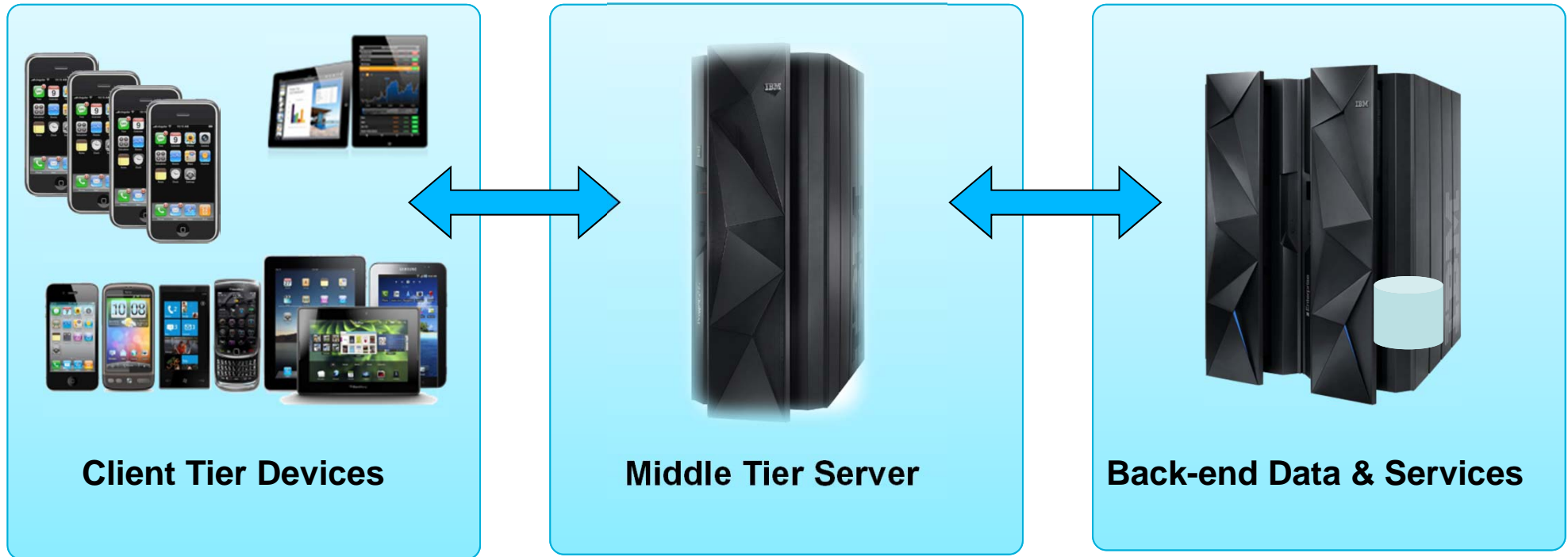


**There are 7.1 billion people on the planet  
6 billion of them have access to mobile phones,  
only 3.5 billion of them use a toothbrush**

# Typical mobile environment

Systems of Engagement

Systems of Record



**Client Tier Devices**

**Middle Tier Server**

**Back-end Data & Services**

- OS Device Variety
- Screen size variety
- Various Smartphones
- Tablets

- Web Application Server
- Mobile Application Runtime Server
- Security components
- Back-end access services
- Caching to back-end services

- Databases and Data sources
- Transactional services

# IBM i Mobile Access Overview



## IBM i Mobile Access

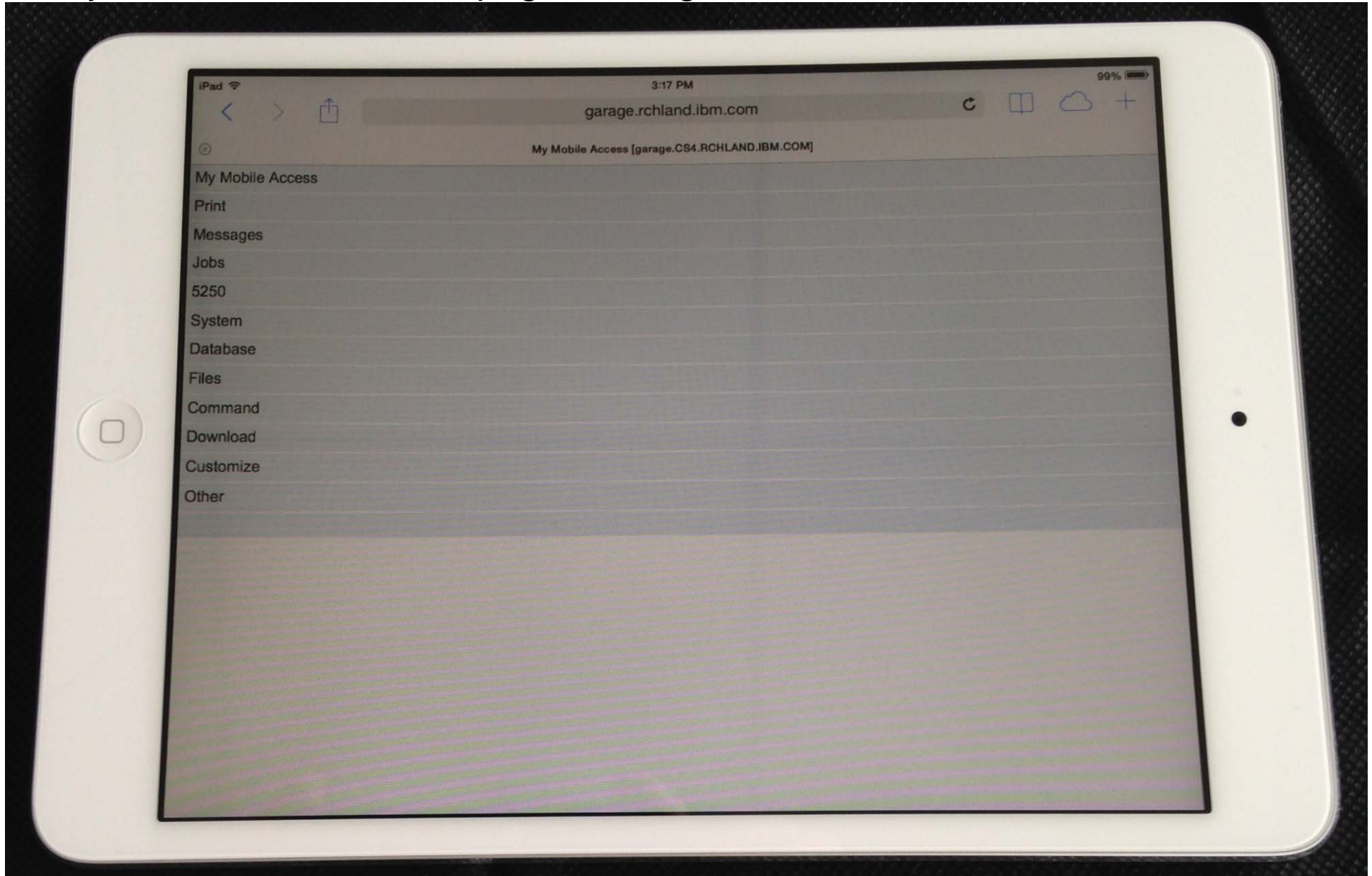
- We have been hearing the need for an IBM i OS management and usage tool that is optimized for a mobile device environment.
  - The IBM Navigator for i interface is optimized for full screen desktop web browsers
  - IBM i Access for Web is also optimized for full screen desktop browsers and has lacked some key management views
  - The last reduced screen footprint solution that IBM i OS had was IBM i Access for Wireless, or Management Cent
- On April 28th, 2014, IBM announced the Technology Preview of the IBM i Mobile Access solution to begin addressing the need in this environment.





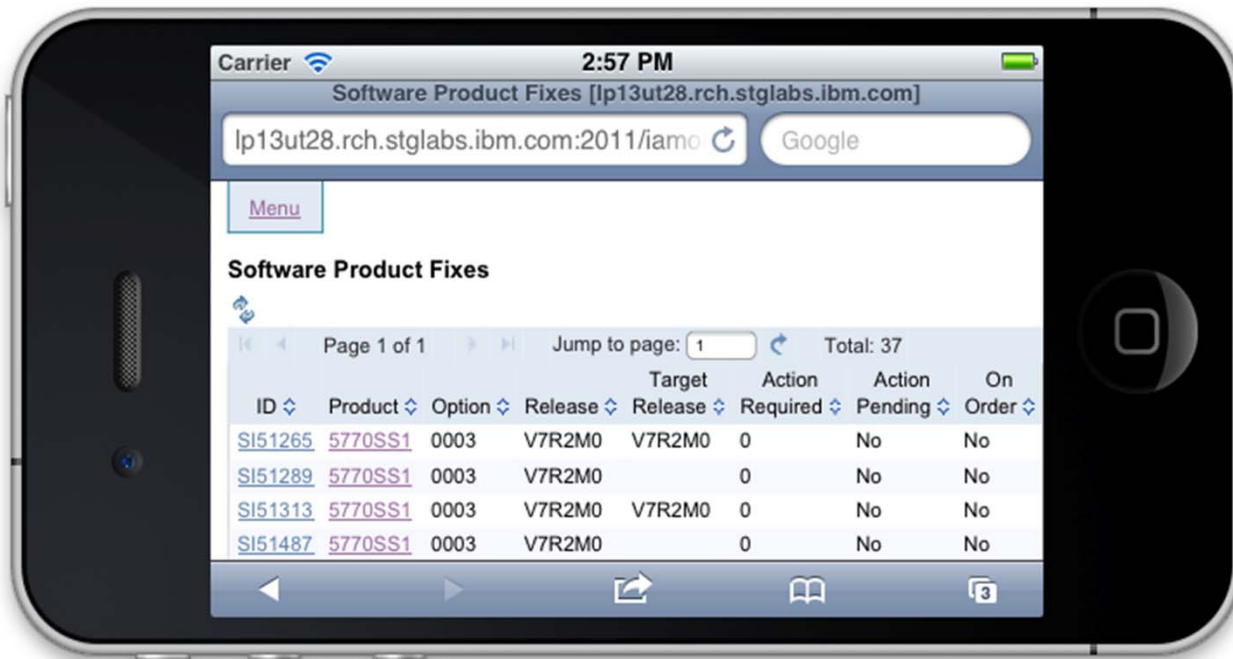
# IBM i Mobile Access

- My Mobile Access home page running on an iPad Mini

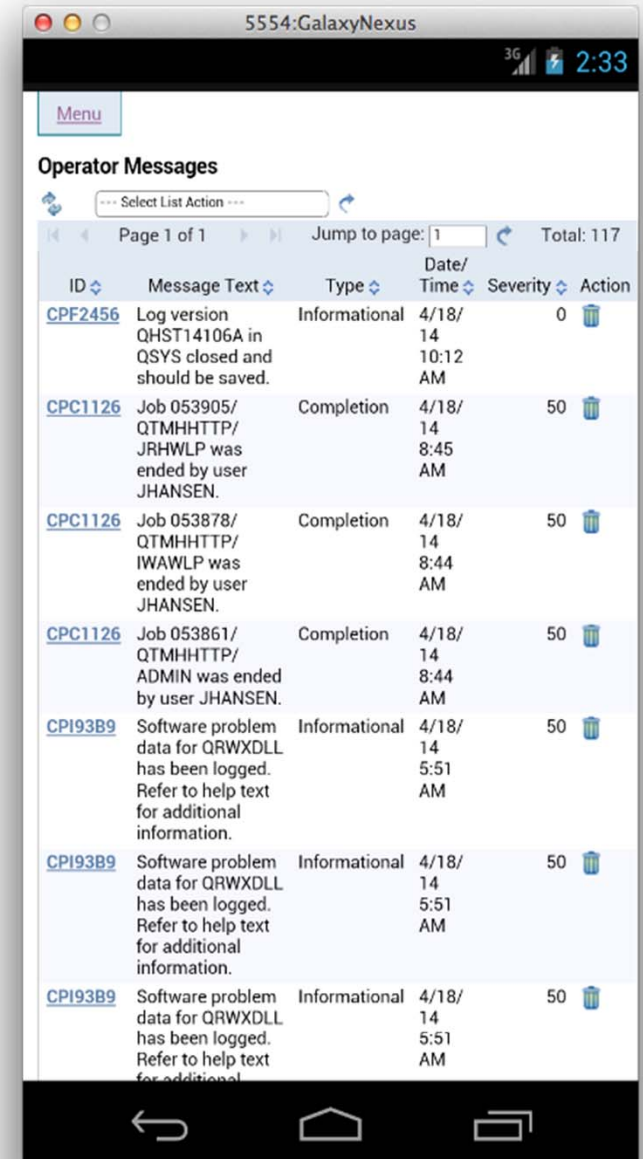
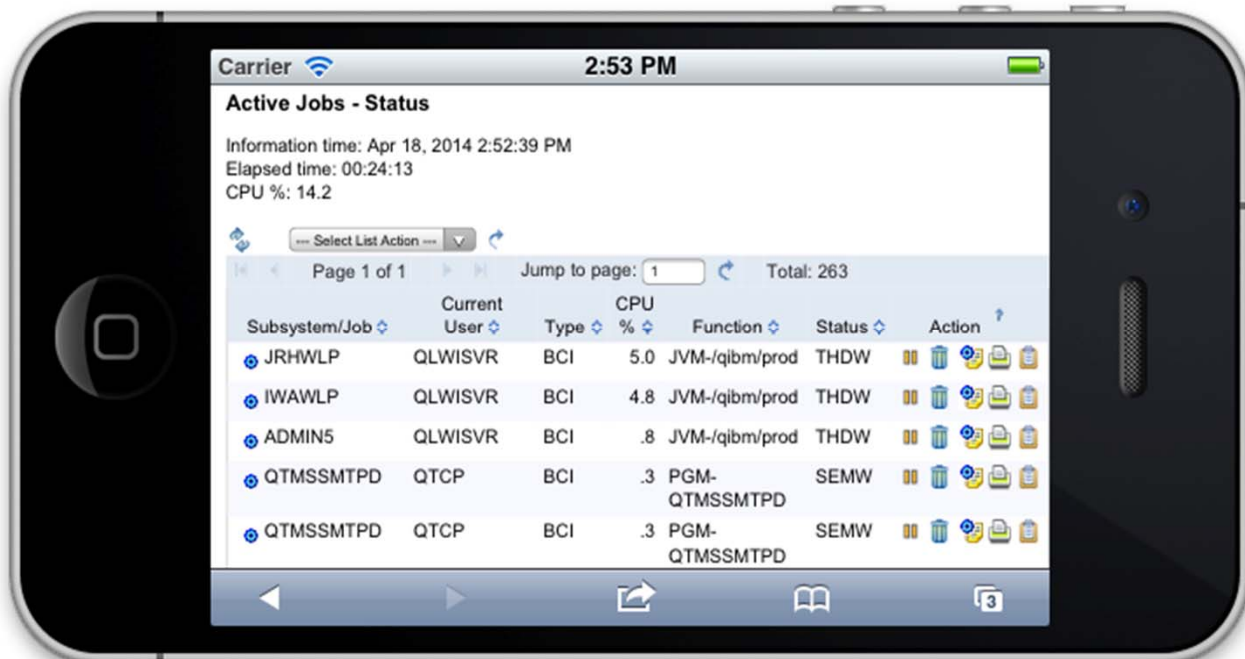


# IBM i Mobile Access Screens

POWER SYSTEMS



iPhone 4



Galaxy Nexus

# IBM i Mobile Access

- This IBM i Mobile Access Solution is a web browser based solution that has been optimized for reduced screen footprint environments.
- Easy to deploy and get running
- Simple URL to connect to
- Robust IBM i OS system interaction
  - System Management Views
  - Printing, Database, IFS, Commands, Messages
  - 5250 Interface
- Highly Customizable
  - What the user has access to can be simply set based on IBM i OS User or Group Profile





# IBM i Mobile Access: Getting Started



## Getting Started

- The IBM i Mobile Access Solution Technology Preview will be distributed as part of the 7.2 IBM i Access for Web (5770XH2) product
  - Customers at IBM i OS 7.1 or 6.1 can obtain and run 7.2 IBM i Access for Web
    - For 6.1 order refresh feature 6289 of 5761SS1
    - For 7.1 order refresh feature 6289 of 5770SS1
    - Install 7.2 5770XH2 LPP
      - If already running 6.1 or 7.1 of Access for Web, need to re-run the CFGACCWEB command for those instances
  - The IBM i Mobile Access Technology Preview will be updated via PTFs to Access for Web
    - SI53292 for 5770XH2 (latest as of July 2014)

## Getting Started

- The IBM i Mobile Access Solution is designed to be integrated into the IBM i OS \*ADMIN HTTP Server environment
  - Requires latest IBM i OS HTTP Server Group PTF to deploy new ADMIN5 job specifically for this solution
    - 7.2 5770DG1 Group SF99713 Level 1
    - 7.1 5770DG1 Group SF99368 Level 27
    - 6.1 5761DG1 Group SF99115 Level 38
  - Started and stopped automatically with the \*ADMIN HTTP Server
    - Can be started and stopped individually (7.1 IBM i OS and later)
      - STRTCPSVR SERVER(\*IAS) INSTANCE(ADMIN5)
      - ENDTCPSPVR SERVER(\*IAS) INSTANCE(ADMIN5)
    - ADMIN5 runs on port 2011

## Getting Started

- Deployed with a simple 2 parameter CL or QShell command
  - CL command
    - `CFGACCWEB APPSVRTYPE(*INTAPPSVR) INSTANCE(*MOBILE)`
  - QShell command in `/QIBM/ProdData/Access/Web2/install`
    - `cfgaccweb -appsvrtype *INTAPPSVR -instance *MOBILE`
    - It can be deployed on other IBM Integrated Application Server instances or other Web Application Server types like WebSphere Application Server, though additional customization is required

# Getting Started

- Connected to via a simple URL from HTTP \*ADMIN port 2001
  - <http://system:2001/iamobile>
- ADMIN5 runs on port 2011
  - 2001/iamobile redirects
  - Can also use
    - <http://system:2011/iamobile/iWAHome>

# IBM i Mobile Access

## More Information:

<http://www.ibm.com/systems/power/software/i/access/mobile.html>

Will include information when update PTFs are made available

IBM Systems > Power Systems > Software > IBM i >

## IBM i Access

Overview Client Solutions Windows Linux Web **Mobile**

A mobile solution for accessing IBM i is now available as a technology preview. Powered by IBM i Access for Web (5770XH2), you can now access IBM i resources from any mobile device that supports a browser.


Features include the ability to:


- view and manage jobs, messages, output queues, files, printers
- view PTFs and PTF Groups
- view, add, insert and update database records
- build, run, save SQL statements with an SQL wizard
- start one or more 5250 emulation sessions with the ability to reconnect even after a device power down
- extract data from a variety of IBM i resources into a table using optional column selection
- distribute and manage files to other users from a common download location


This capability is provided as part of 7.2 IBM i Access for Web (5770XH2) which can be installed on IBM i release 7.2, 7.1 and 6.1. If you are using IBM i release 6.1 or 7.1, it is available on the [Entitlement Software Support \(ESS\)](#) website as feature 6289 under SS1.

→ [Additional information on ordering](#)







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# IBM i Mobile Access



# IBM i Mobile Access Demo





# Demonstration Systems Provided By:



IBM i Personal development  
in the cloud.



IBM i, AIX, Linux on Power  
commercial hosting in the cloud.

**“What applications have you brought to IBM i today?”**

**Larry Bolhuis**  
**lbolhuis@ilnthecloud.com**  
**Pete Massiello**  
**pmassiello@ilnthecloud.com**



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## References

- IBM i Access Web Site

<http://www-03.ibm.com/systems/power/software/i/access/index.html>

The **Resources** page has a lot of additional references and articles

<http://www-03.ibm.com/systems/power/software/i/access/resources.html>

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