System Management and Access on IBM i

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Business Architect
System Management
Before we get started.....

• A little background/history on IBM i Access family

• A Discussion on Strategy
What is System Access & Management

User Accessing the IBM i

Managing IBM i System

DB Engineer playing with the DB2 on i
Strategy

Windows Install Only

Any Device
Why?

Core issues
• No support for Linux & Mac
• No support for Mobile
• Difficult to deploy for many users
• Difficult to update
• Development is costly
• Existing support is OLD – The world has changed!
Answers

Solution themes
• Device & OS Neutral
• Flexible
• Easy to install and maintain
• Simple for a single user or 1000’s
• Improved administrator situation
• Cost effective to create
iAccess for Windows

Navigator

iAccess Mobile

Access Client Solutions

Application Runtime Expert

DB2 SQL

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IBM i Access Family

• The r7.2 / r7.1 IBM i Access Family of Products
  – IBM i Access for Windows (5770XE1)
    • Client Access
    • Most mature and widely used product
      - System i Navigator
      - 5250 Display and Printer Emulation
      - Data Transfer
      - Operations Console & Virtual Control Panel
  – IBM i Access for Web (5770XH2)
    • IBM i System Hosted HTML based web product
    • Very robust capability that has been well received
      - 5250 Display
      - Print Access
      - Database Access
  – IBM i Access for Linux (5770XL1)
    • Lightly embraced product specifically for Linux RPM Operating Systems
      - ODBC provider
      - 5250 Display
      - Remote Command

Gone Mobile
Just Gone!
Access Client Solutions (ACS)

- **Core offering (platform independent)**
  - 5250 display and printer emulator
  - Data transfer
  - Printer Output
  - Console consolidation
  - Other misc features

- **Windows Application Package (Available at G.A.)**
  - Windows Installer MSI Package
  - Data drivers (ODBC, OLEDB, .Net)
  - Printer drivers

- **Linux Application Package (Available at G.A.)**
  - RPM and Debian Install Packages
  - ODBC driver
Product Availability

• IBM i Access Client Solutions is identified as LPP 5733-XJ1
  – Not an IBM i OS installable LPP – Client Device only!
  – http://www-03.ibm.com/systems/power/software/i/access/solutions.html

• Product distributed in zip files
  – Platform Independent Core Java product
    • IBM_i_Access_Client_Solutions_LCD#_*.zip
    • Contains product jar and other supporting files
  – Windows Application Package
    • IBM_i_Access_Client_Solutions_-_Win_AP_LCD#_*.zip
    • Contains 32bit and 64bit Windows installers
  – Linux Application Package
    • IBM_i_Access_Client_Solutions_-_Linux_AP_LCD#_*.zip
    • Contains Linux RPM and Debian installers
Frequently-asked Questions

• Supported connecting to IBM i OS r7.2, r7.1 and r6.1 (5.4, 5.3, 5.2,...)

• Exact Same Connectivity
  – Same 57xxXW1 Licenses for 5250 and Data Transfer
  – Connects to the same IBM i Access Host Servers
  – Connects to the same Ports
NOW!! Let's talk about the emulator

• Show of hands:
  – Who has tried the Access Client Solutions emulator?
  – Who has made the new emulator their own "go to"?
  – Who has made this emulator the organization standard?
Let's Compare...

iAccess for Windows – PC5250

VS

ACS – 5250 Emulator
Can your emulator do this?
My emulator (and all its settings/profiles) can live here...
Or here...
Or here!

\texttt{w32users (\textbackslash rchfs\textbackslash group) (U:)}

253 GB free of 807 GB

\texttt{afsrch (\textbackslash smb1.rchland.ibm.com) (Z:)}

68.6 GB free of 68.6 GB
Central System Deployment
Or here!

How about yours?

afsrd://smb1.rchland.ibm.com (Z:)

68.6 GB free of 68.6 GB
How do you get it???

ESS?

EASY WEB DOWN LOAD!
NEW in the Past 3 Months!!!

IBM i Access

IBM i Access Client Solutions is the newest member of the IBM i Access family. It provides a Java based, platform-independent interface that runs on most operating systems that support Java, including Linux, Mac, and Windows™.

IBM i Access Client Solutions consolidates the most commonly used tasks for managing your IBM i into one simplified location. The latest version of IBM i Access Client Solutions is available to customers with an IBM i software maintenance contract.

→ Download IBM i Access Client Solutions base package
→ QuickStartGuide
→ GettingStarted
→ Updates
IBM i Access Client Solutions

Returning visitors
IBM ID: (usually e-mail address)*
timmr@us.ibm.com
→ Forgot your IBM ID?
→ Get an IBM ID
Password*

Not registered?
If you do not have a universal IBM user ID, please register here, then return to sign in for this offering.

To find out more about the benefits of having an IBM Registration ID, visit the IBM ID Help and FAQ.

→ Forgot your password?
Sign in

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→ View license

By checking "I agree" box below you agree that (1) you have had the opportunity to review the license and (2) you agree to be bound by its terms. If you disagree, click "I cancel" below.

I agree*

☐ I agree

By clicking the "I confirm" button below, I confirm my Privacy selection and acceptance of the license. By clicking the "I cancel" button, I cancel my Privacy selection and acceptance of the license.

I confirm  I cancel
IBM i Access Client Solutions

Downloads

IBM i Access Client Solutions
English
2015-10-05

To download using Download Director, select the files you want below and click on 'Download now'. Learn more.

You can also download the files using http.

- Download using Download Director
- Download using http

- Select all files

  - IBM i Access Client Solutions
    IBMiAccess_v1r1.zip (64 MB)

  - Getting Started
    GettingStarted_en.html (89 KB)
Improved ACS User Deployment – Single & Multi User

New Deployment Wizard to Simplify and Improve ACS Deploy

- Administrator Options for Multi User Deployment
- Create Desktop Shortcut to Runtime location
  - Local or Network location
- Create File Associations
  - Old .ws files
  - New .hod files
  - Data Transfer
- Customization of Available Function
  - Control what functions display
How about deployment time?
• go from "just downloaded" to "deployed and running" in…

**Less than a minute!**
Really?

Yes, really!

1. Extract the downloaded .zip file
2. browse into the Start_Programs directory
3. Find the appropriate launcher and double-click!
Auto-push configuration

• Not only that, but product settings can be automatically pushed out to all users!

• This includes emulator stuff!
  – 5250 session profiles
  – Color mappings
  – Key mappings
  – Stuff we're going to talk about
  – etc.

• See product documentation for 'com.ibm.iaccess.autoimport' and 'com.ibm.iaccess.autoimport.version' properties for more info

• Article on deployment!!!
How about new features?

Mouse wheel recognition!
How about new features?

Also works with other scrolling devices, like your laptop touchpad!
Mouse wheel default options

- Edit->Preferences->Mouse Wheel
Watermark Support??
Image watermarks

Center, tile, or stretch!

Watermark Options

- Watermark type: Text or Image
- Display text: [Field]
- Display text color: White
- Font: Times New Roman
- Image location: [Field] (Browse...)
- Position: Center
- Vertical padding: 5
- Horizontal padding: 5
- Opacity: 40%

IBM Logo Image
Text watermarks

**Watermark Options**

- **Watermark type**: Text or Image
- **Display text**: "&ID - &HOST"
- **Display text color**: White
- **Font**: Meryo
- **Image location**: Content/ uploads/sites/6/2013/06/IBM-logo.jpg
- **Position**: Tile
- **Vertical padding**: 11
- **Horizontal padding**: 17
- **Opacity**: 40%

[Image of the Watermark Options dialog box]
Command Entry

Previous commands and messages:

(No previous commands or messages)

Type command, press Enter.

F3=Exit   F4=Prompt   F9=Retrieve   F10=Include detailed messages
F11=Display full   F12=Cancel   F13=Information Assistant   F24=More keys

MA   A

LP89UT27
Request level:  1

18/007
Text Watermark – Special keywords

- **&COMPN**
  Computer name

- **&HOST**
  Host name defined within the emulator session

- **&ID**
  Current session ID

- **&NAME**
  Current session name

- **&USERN**
  User name that started the JVM *NOT IBM i user profile*
Oh, yeah, and my emulator has TABS!
How does that make you feel?
And you can do a bunch with them!

• You can drag them around (even between windows)
• You can detach them to their own window

• you can even choose where to place them on the screen
And you can do a bunch with them!

• Not enough room on the screen? NO PROBLEM!
Yes, you can switch between tabs with the keyboard

- `<alt>+<tab>` switches between windows
- `<ctrl>+<tab>` switches between tabs within a window (you can customize)

- You can also define a key sequence for "Jump Next" and "Jump Previous", which will traverse all 5250 sessions (different tabs and windows)
Enhanced batch files
Enhanced batch files
Enhanced batch files

• "Multiple sessions" types shows up in my 5250 session manager (just like with PC5250)
Anyone keeping score?

Don't worry… We're not done yet!
How about SSL?

• Show of hands:
  – Who uses SSL more often than unsecured connections?
  – Whose company enforces an SSL-only policy for IBM i?
Configuring SSL CA trust – The PC5250 way!

1. Open System i Navigator.
2. Right-click the name of your system.
4. Select the Secure Sockets tab.
5. Click Download. This downloads the i5/OS certificate authority certificate automatically into the certificate key database.
6. You are prompted for your key database password. Unless you have previously changed the password from the default, enter ca400. A confirmation message displays. Click OK.

Relies on
- Non-SSL connection to IBM i IFS
- Certificate authority file in IFS matching what the server offers
- Not assigning multiple certificates on the server (new function in 7.2)
Configuring SSL CA trust – The ACS way!

Still only needed for self-signed certificates

Relies on:
- Clicking "Yes"
Screen History
### Work with Output Queue

**Queue:** QPRINT  
**Library:** QGPL  
**Status:** RLS

Type options, press Enter.  
1=Send  2=Change  3=Hold  4=Delete  5=Display  6=Release  7=Messages  
8=Attributes  9=Work with printing status

<table>
<thead>
<tr>
<th>Opt</th>
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<th>User</th>
<th>User Data</th>
<th>Sts</th>
<th>Pages</th>
<th>Copies</th>
<th>Form</th>
<th>Type</th>
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</tbody>
</table>

Parameters for options 1, 2, 3 or command  
---
F3=Exit  F11=View 2  F12=Cancel  F20= Writers  F22=Printers  F24=More keys
### Work with Output Queue

**Queue:** QPRINT  **Library:** QGPL  **Status:** RLS

Type options, press Enter.
- 1=Send  2=Change  3=Hold  4=Delete  5=Display  6=Release  7=Messages  8=Attributes  9=Work with printing status

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<td>*STD</td>
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<td>*STD</td>
<td>5</td>
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</table>

Parameters for options 1, 2, 3 or command

```plaintext
F3=Exit  F11=View 2  F12=Cancel  F20= Writers  F22= Printers
F24=More keys
```

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**History Screen**

- When clicked on a thumbnail, a new window would pop-up showing the contents of the navigated screen (history screen).
- One can also navigate the other history screens (if any) from a history screen, by using the next and previous button on it.
Default Profile

A screenshot shows a window with options for communication actions: Connect, Disconnect, Configure..., Set As Default Profile, and Security.... Below this window is a pop-up with the title "Set As Default Profile". The text in the pop-up reads: "The default profile is always used when configuring new session profiles. Are you sure you wish to overwrite the default profile to match the current emulator session properties? Yes  No".
Default Profile

• Your current preferences will now be set as the default settings for all new 5250 sessions you create!

• This includes (but is not limited to)
  – Key mappings
  – Color mappings
  – Watermark settings
  – Screen history
  – SSL setting
  – Bypass signon
  – Screen Size (27x132)
Print Support

• ACS supports Host Print Transform (HPT)
Print Support

- ACS supports Printer Definition Tables (PDT)
New Java printing option

NOTE: Only works with plain text *SCS spool files

NOTE: Doesn't require HPT/PDT configuration!

NOTE: Works with any installed printer!
Session Manager "active sessions"
Better globalization support

Just choose your codepage!

What would PC5250 require?
Beyond the emulator
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
### Remote 5250 Console Partition Selection

Management Console: cs4hmc    System: SN106159F

Type option, press Enter.
1=Connect dedicated
2=Connect shared
3=Show Details

<table>
<thead>
<tr>
<th>Option</th>
<th>Partition</th>
<th>Partition State</th>
<th>Code</th>
<th>Count Console</th>
<th>Status</th>
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<td>-</td>
<td>1: rchm199a</td>
<td>Started</td>
<td>00000000</td>
<td>0</td>
<td>Unknown</td>
</tr>
<tr>
<td>-</td>
<td>2: rchm199b</td>
<td>Started</td>
<td>00000000</td>
<td>0</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

F3=Exit    F5=Refresh    F12=Cancel
HMC Console Probe
Printer Output

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

  ![Printer Output Interface]

  - Convert to .pdf
  - Easily move to your desktop
ACS & Navigator

No extra sign-on!!

IBM® Navigator for i

Welcome

Search Task

IBM i Management

- Target Systems and Groups
- Favorites
- System
- Monitors
- Basic Operations
- Work Management
- Configuration and Service
- Network
- Integrated Server Administrator
- Security
- Users and Groups
- Database
- Journal Management
- Performance
- File Systems

Welcome to the IBM Navigator for i

IBM Navigator for i provides an easy-to-use interface for the web-enabled IBM i management tasks, including all previous IBM i Navigator tasks on the web, and 2001 port tasks.

Expand IBM i Management in the left-hand navigation area to get started.

To see the previous version of the 2001 port tasks and where they are located now, click below.

IBM i Tasks Page
Work with Your Data

Run SQL Scripts
- Faster Startup Time
- Line Numbers
- Highlighting
- Color Coding
- Improved Usability
- Status Bar
- Stop Runaway Queries
- Find (supports Regex)
- Lots of Editor features
- Save Results .xlsx

Works on Windows, Mac & Linux!!!
How do you get the product…. 

• Product Web Site

• Used to have to go to ESS

• No longer, down load from Product Web Page.
Summary

The ACS emulator is better than PC5250!!

Any Questions?
IBM, the IBM logo, ibm.com AIX, AIX (logo), AIX 6 (logo), AS/400, BladeCenter, Blue Gene, ClusterProven, DB2, ESCON, i5/OS, i5/OS (logo), IBM Business Partner (logo), IntelliStation, LoadLeveler, Lotus, Lotus Notes, Notes, Operating System/400, OS/400, PartnerLink, PartnerWorld, PowerPC, pSeries, Rational, RISC System/6000, RS/6000, THINK, Tivoli, Tivoli (logo), Tivoli Management Environment, WebSphere, xSeries, z/OS, zSeries, AIX 5L, Chipopper, Chipkill, Cloudscape, DB2 Universal Database, DS4000, DS6000, DS8000, EnergyScale, Enterprise Workload Manager, General Purpose File System, GPFS, HACMP, HACMP/6000, HASM, IBM Systems Director Active Energy Manager, iSeries, Micro-Partitioning, POWER, PowerExecutive, PowerVM, PowerVM (logo), PowerHA, Power Architecture, Power Everywhere, Power Family, POWER Hypervisor, Power Systems, Power Systems (logo), Power Systems Software, Power Systems Software (logo), POWER2, POWER3, POWER4, POWER4+, POWER5, POWER5+, POWER6, POWER6+, System i, System p, System p5, System Storage, System z, Tivoli Enterprise, TME 10, Workload Partitions Manager and X-Architecture are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml

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