

Power Systems Agenda IEM

- · IBM i Access Family
- Product Positioning
- Configuration
- 5250 Emulation
- · Data Transfer
- Console
- · Printer Output
- · Shell Commands
- Break
- Deployment
- · Database Enhancements
- · Demonstration and Questions



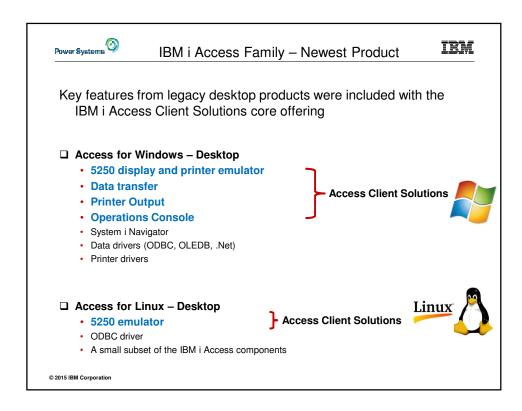


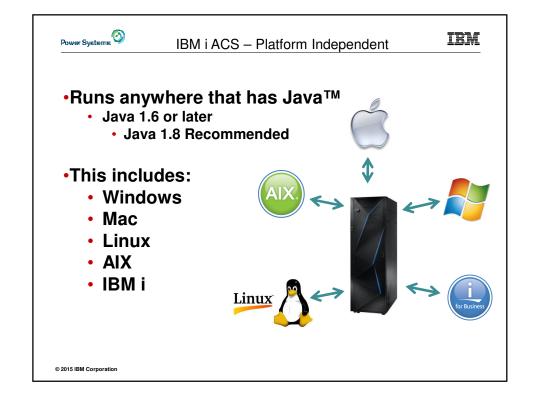
IBM i Access Family



- 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 & Printer Emulator
 - · Data Transfer
 - Operations Console & Virtual Control Panel
- Data Access Providers
- Remote Command
- Print Drivers
- IBM i Access for Web / IBM i Mobile Access (5770XH2)
 - IBM i System Hosted HTML based Mobile Web Product
 - Robust Capability that has been Well Received
 - 5250 InterfacesPrint Access
 - Database Access

- Integrated File System
- Commands
- Jobs
- IBM i Access for Linux (5770XL1)
 - Lightly Embraced Product specifically for Linux RPM Operating Systems
 - ODBC Provider
 - 5250 Display Emulator
 - Remote Command







Application Packages

IBM

☐ 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

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Product Availability



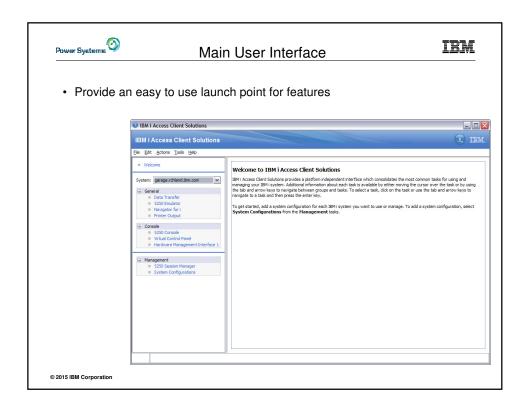
- IBM i Access Client Solutions is identified as LPP 5733-XJ1
 - Not an IBM i OS installable LPP
- The GA version of the product is available to customers with valid SWMA and IBM i OS r6.1, r7.1 or r7.2 and is downloaded from the IBM i Access Client Solutions or IBM Entitled Software Support (ESS) websites
 - Technote with example instructions
 - http://www-01.ibm.com/support/docview.wss?uid=nas8N1010355
- · Product distributed in zip files
 - Platform Independent Core Java product
 - From IBM i ACS website: IBMiAccess_v1r1.zip
 - On ESS: 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

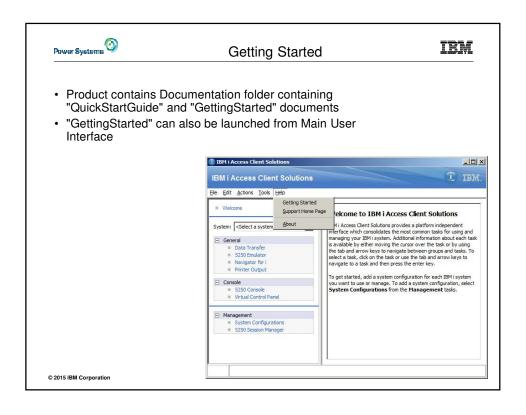


Product Details

IBM

- Supported connecting to IBM i OS r7.2, r7.1 and r6.1
- IBM i OS supports IBM i Access Client Solutions exactly the same as IBM i Access for Windows
 - Checks out the same 57xxXW1 Licenses for 5250 and Data Transfer
 - Connects to the same IBM i Access Host Servers on the same ports in the same way
 - Exit programs will continue to have the same impact
 - · Application Administration local policies will still be applied









Three Products in One

IBM

• IBM i Access Client Solutions is comprised of 3 separate packages

Core offering (platform-independent) Windows Application Package Linux Application Package

- Instead of updating (Linux) or creating (Mac OS) platform specific products a strategic decision was made to instead take the core functions of IBM i Access for Windows and bring them into a new platform independent product
 - Significantly reduces administration costs by elimination platform specific installer and supporting simple network drive deployment for most users
 - The need to still address functions that are platform specific are addressed with the Windows and Linux Application Packages

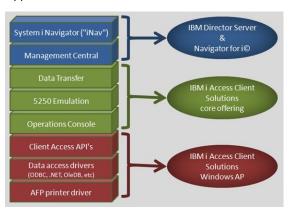
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Power Systems

Decoupling Access for Windows



- IBM i Access for Windows or Client Access has been the platform for nearly everything needed to interact with your IBM i OS for a long time.
 From end users just needing a 5250 session, to a System Administrator, the same product and maintenance overhead is needed
- Many of these functions are now available in different ways depending on the needs of the user or application environment.
- Access for Windows major functions and where those functions are provided

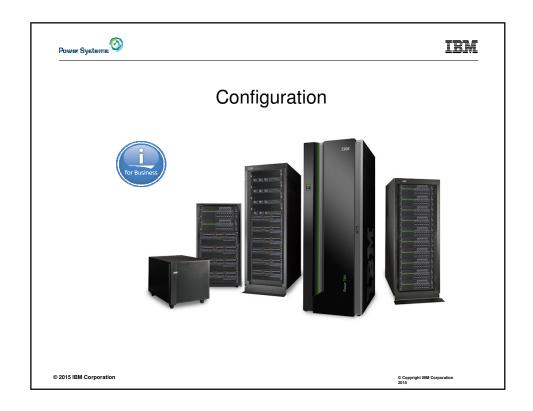


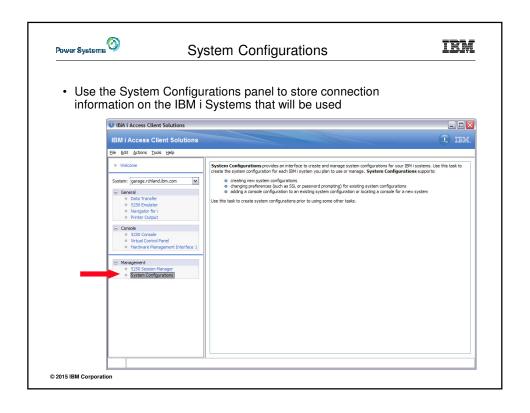


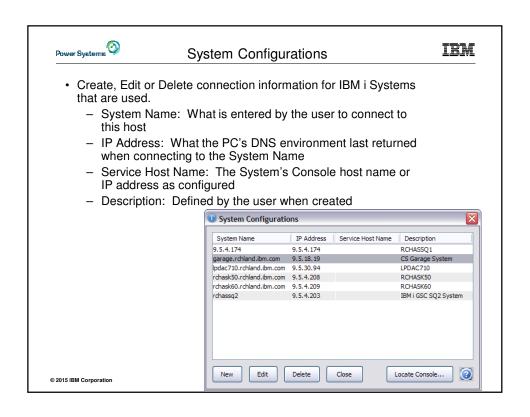
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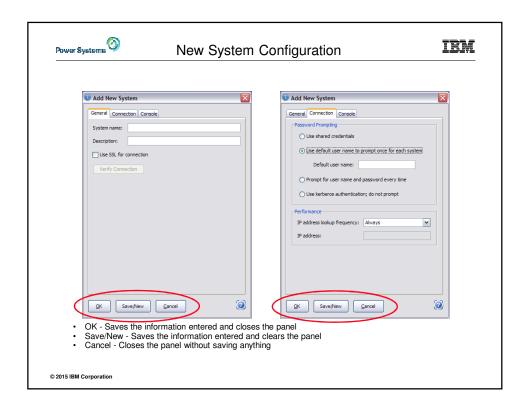
IBM

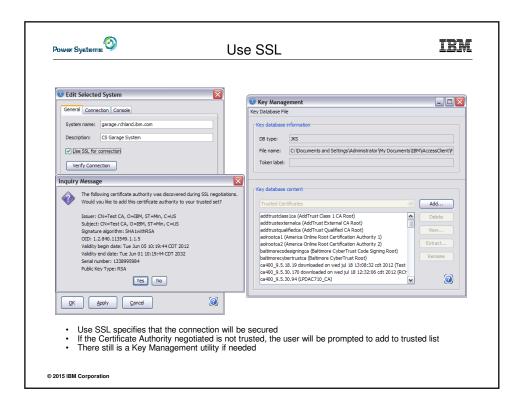
- IBM i Access Client Solutions Application Packages are built using the exact same infrastructure as the IBM i Access for Windows and IBM i Access for Linux products. Therefore they are mutually exclusive.
- The IBM i Access Client Solutions core platform independent product has no conflicts with either of the Linux or Windows packages.
- IBM i Access Client Solutions does not provide any Navigator interface instead relying on the IBM Navigator for i web based infrastructure that was introduced with IBM i OS r6.1 and has continually been enhanced since
 - Name change from IBM Systems Director Navigator to IBM Navigator for i indicates a very large investment into improving the performance and usability of this interface
 - Key IBM i OS solutions like Performance Data Investigator and HAS tools are only available in Navigator for i
 - r7.2 GA timeframe introduces monitors and PTF interaction
 - A few things have/had reliance System i Navigator
 - Run SQL Scripts (NOT Anymore, Delivered in December 2015)
 - · Database Visual Explain (Expected around July 2016)

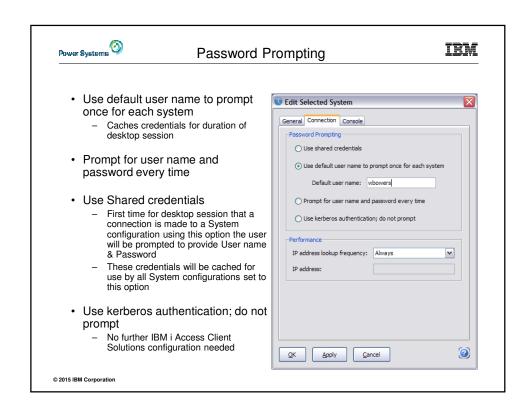




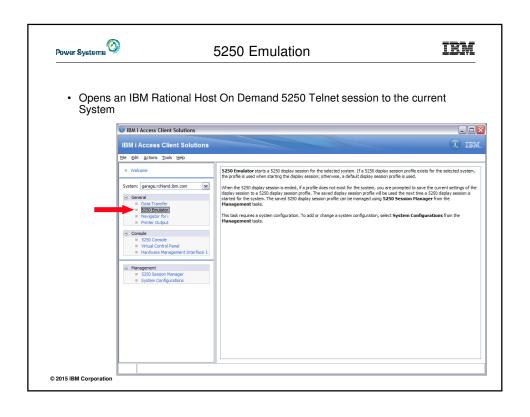


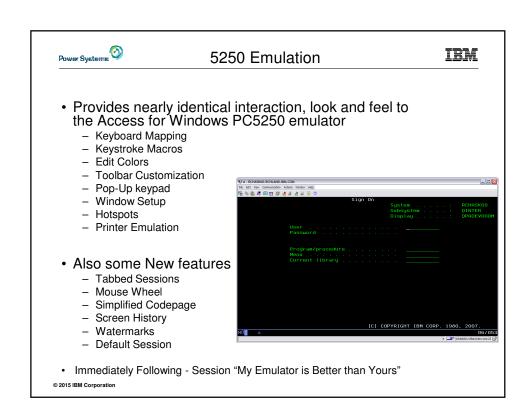


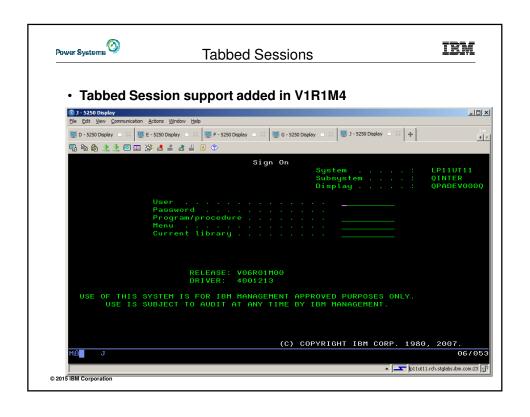


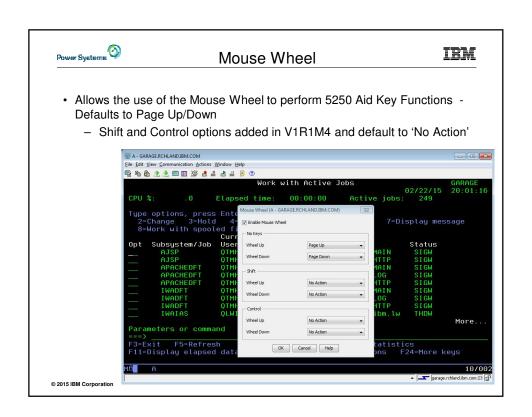


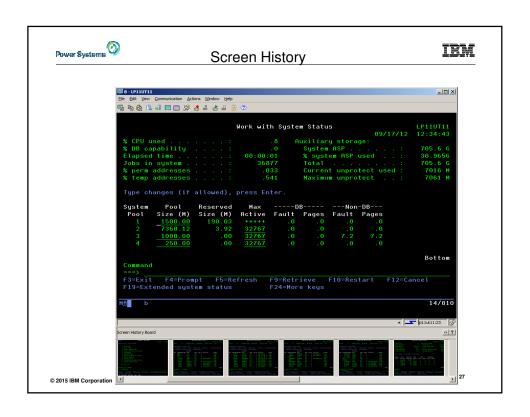




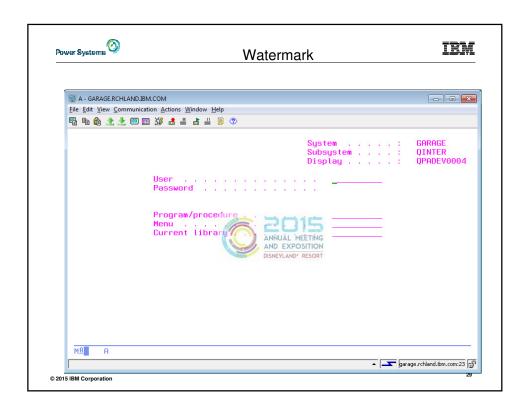


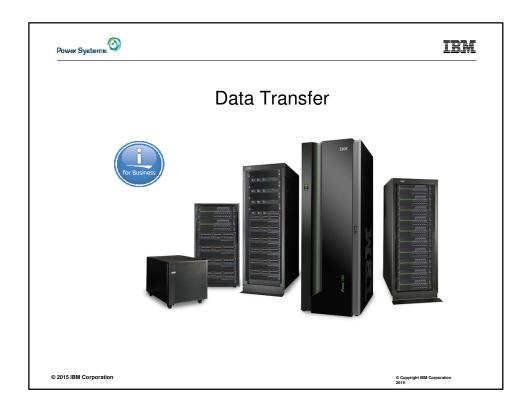


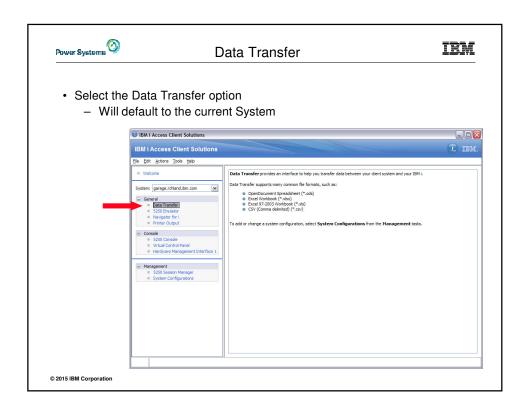


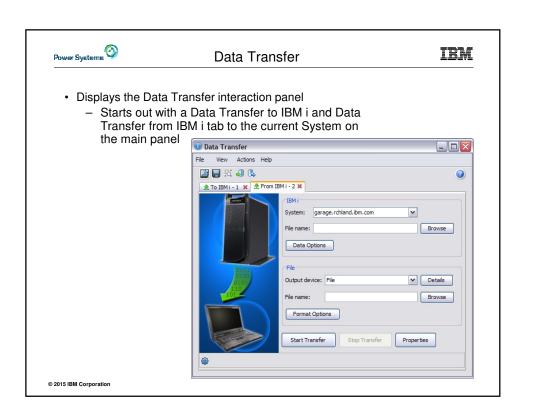


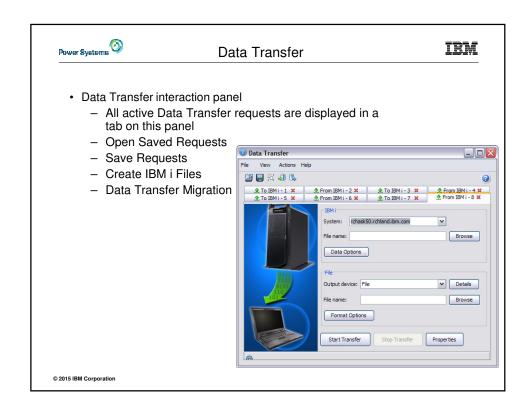


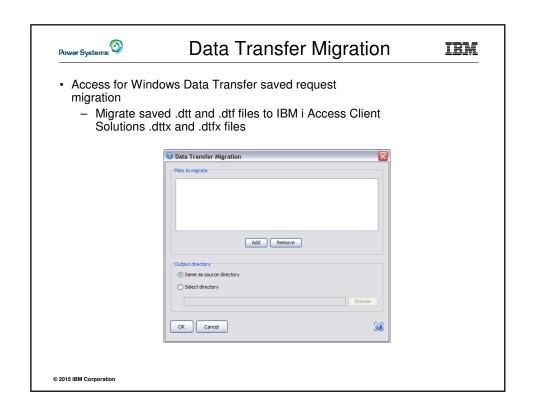


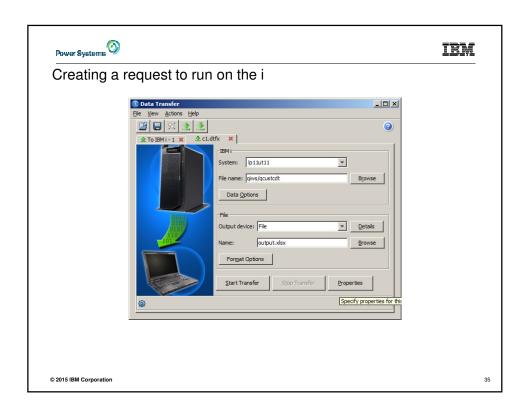




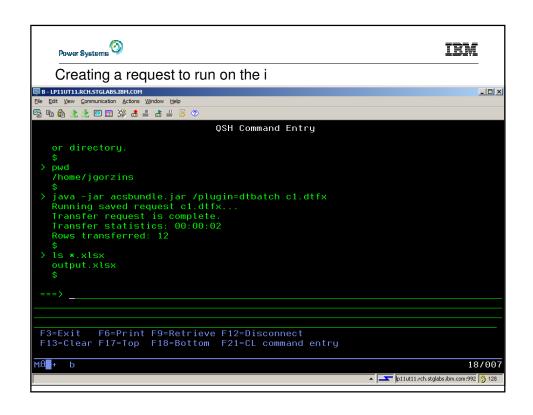


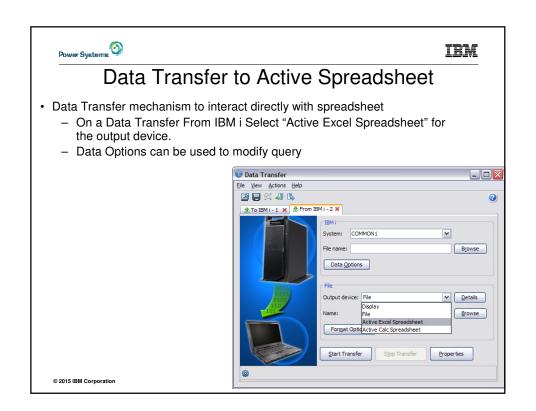


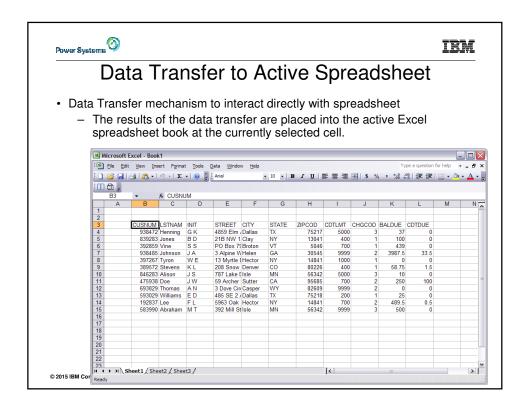


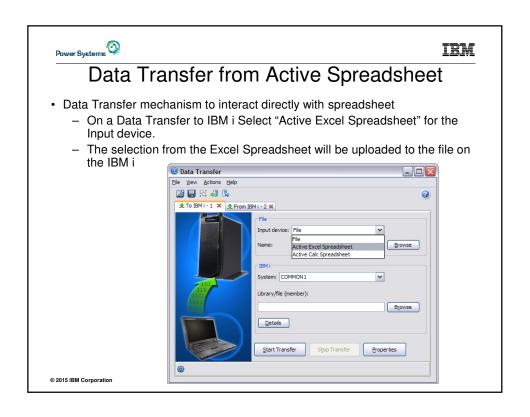














IBM

Data Transfer with Active Spreadsheet

- Support:
 - Microsoft Excel
 - Windows
 - OpenOffice Calc
 - Windows
 - Linux

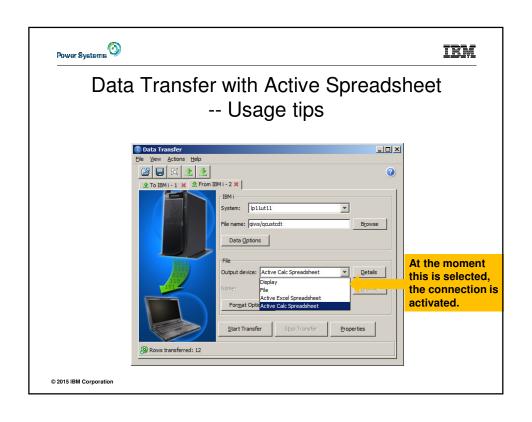
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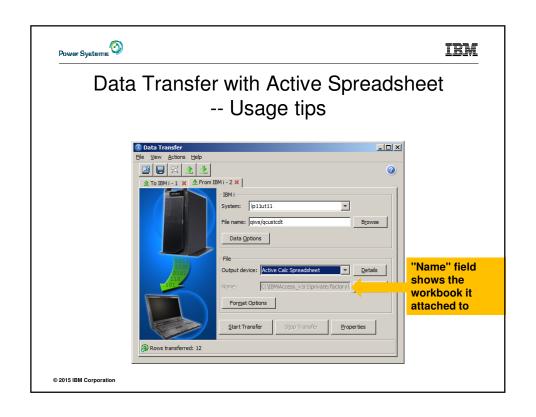


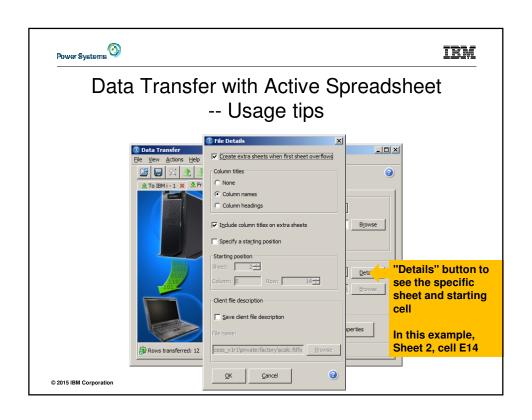


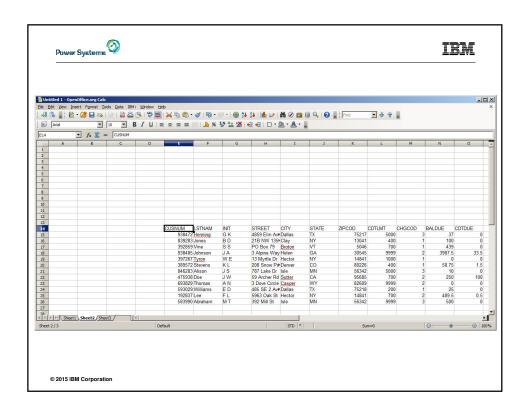
Data Transfer with Active Spreadsheet -- Usage tips

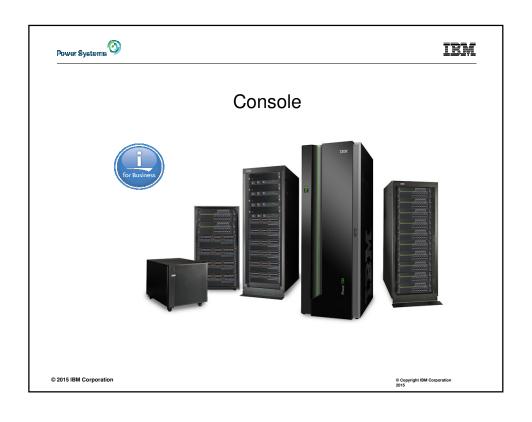
- Bitness must match!!! (32bit vs. 64bit)
- ACS will "activate" the connection and attach at the moment the dropdown item is selected!
- Select target/source location in spreadsheet before activation (for upload, select the range)

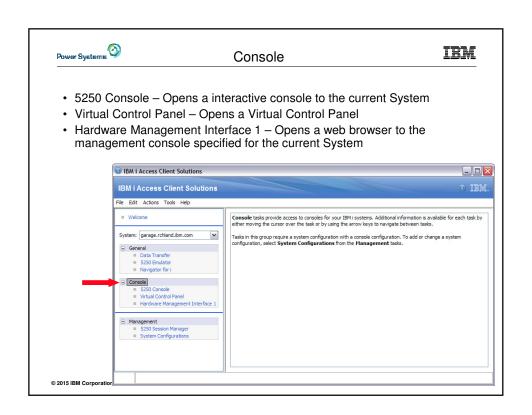




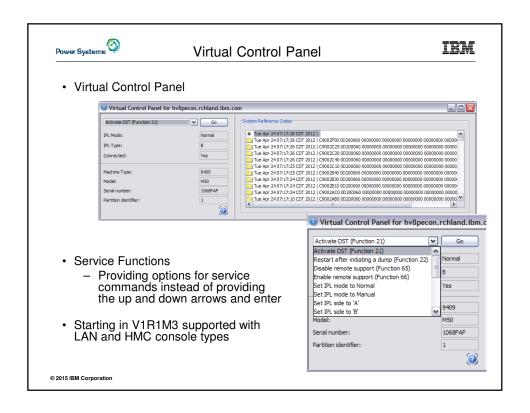


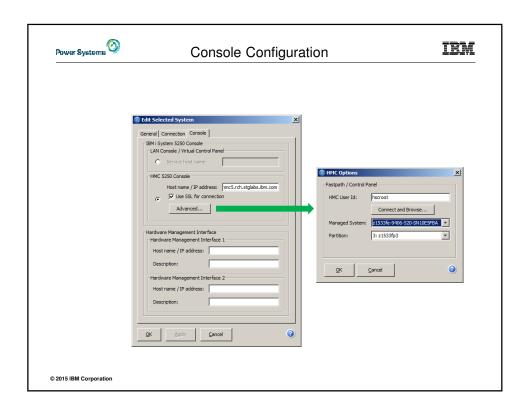


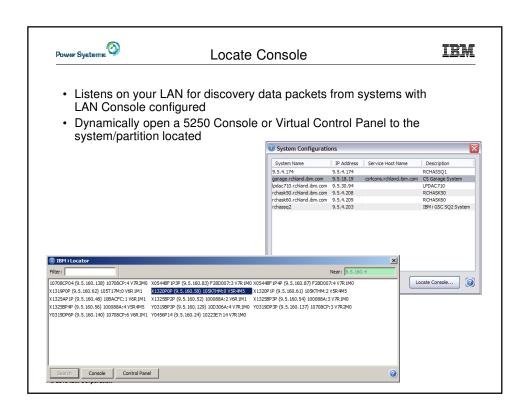


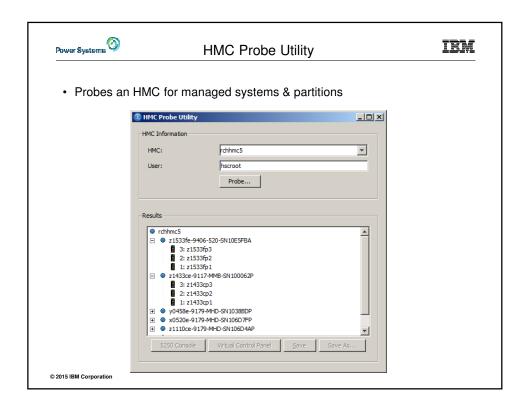


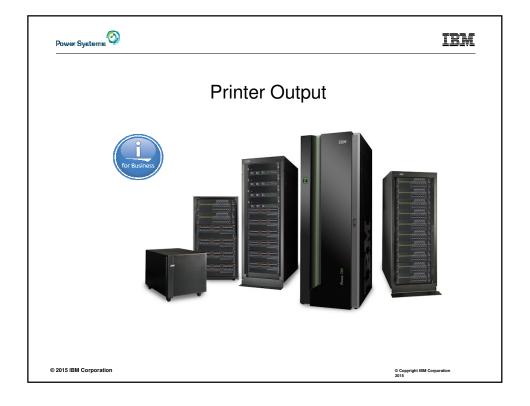


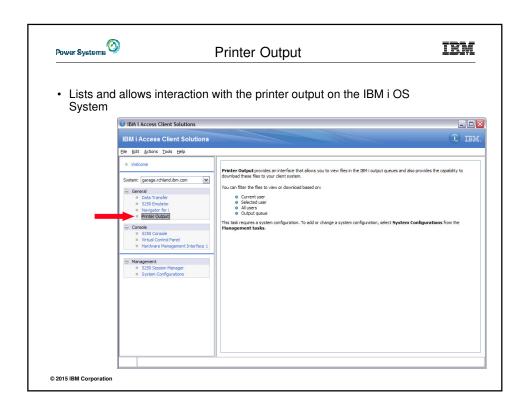


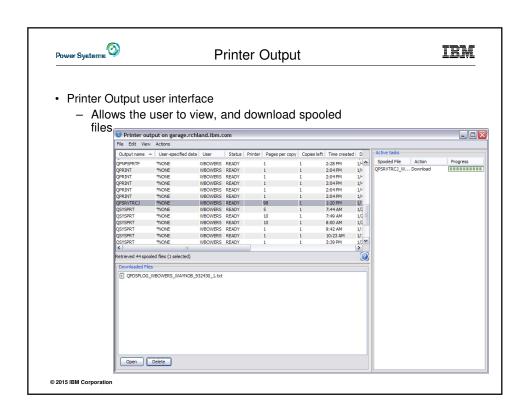


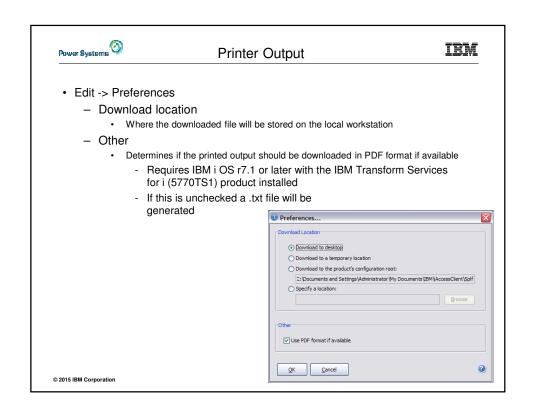


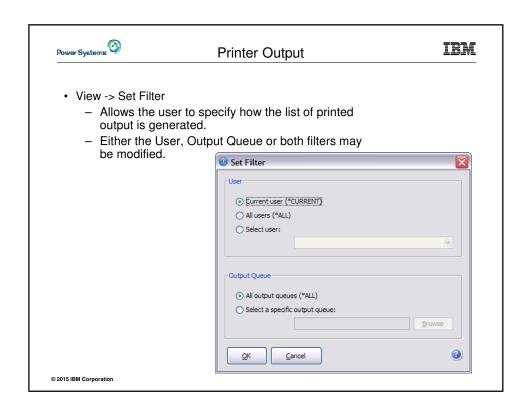














Power Systems

Shell Commands



- IBM i Access Client Solutions provides several shell or command line utilities that can be used outside of the graphical user interfaces
- Basic syntax is (all on the same line)

acslaunch_win-32.exe /plugin=<name>
 [/system=<system>] [/options]

– Or

 The "/system" parm is only valid for commands pointed at a specific system



Shell Commands

IBM

- · Examples include:
 - -Backup
 - Saves the client configuration to file
 - -Restore
 - Restores the client configuration from file
 - -Cfc
 - Creates system configuration
 - -Dump
 - Requests all running client processes to write service information
 - -Medic
 - Packages the existing logs and dumps
 - -Log
 - Sets the client logging level

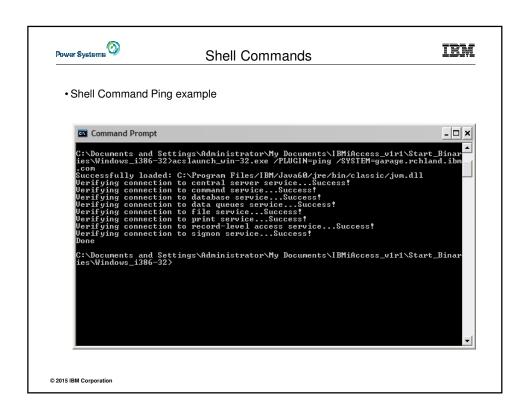
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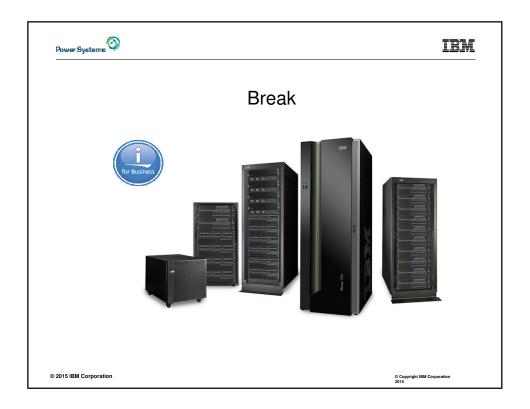


Shell Commands



- And...
 - -Logon
 - Manages user id and password caching
 - -Props
 - Opens the Edit -> Preferences panel
 - -Maint
 - Maintenance options
 - -Pinc
 - IBM i Access Client Solutions connection verification
 - -Sm
 - Opens 5250 session manager
 - -5250
 - Opens 5250 display session
 - -DTGui
- Opens Data Transfer interaction panel





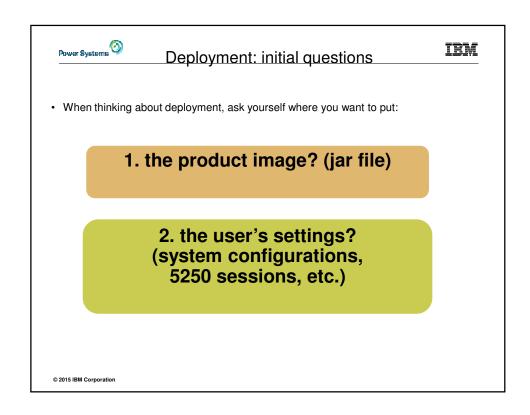


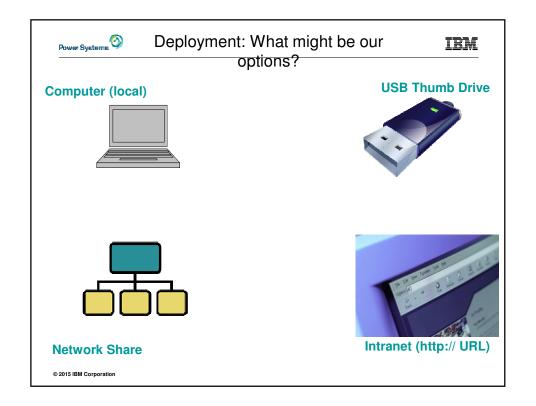
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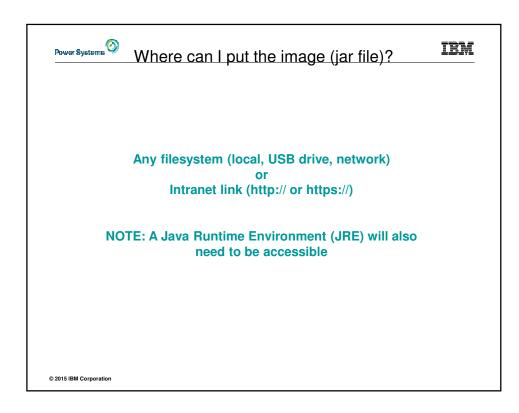
Deployment

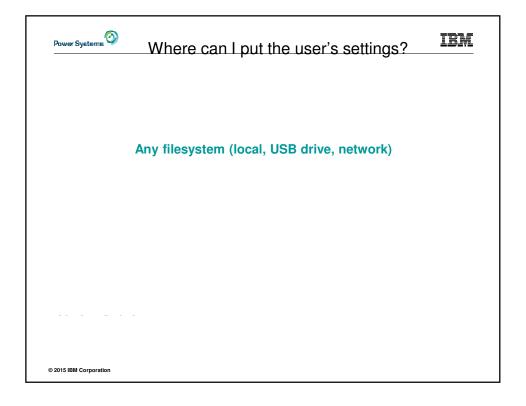


- IBM i Access Client Solutions is not installed to the client operating system, it is deployed.
 - There is no Windows Based Installer (setup.exe) installation program for the core of the product.
- · Access Client Solutions Deployment
 - The deployment involves the client bundle being placed wherever 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











How do I place the product image?

IBM

- · For filesystem locations, simply copy the file(s) and give users access
- For http:// or https://, you have two options:
 - Static-serving the file from your web server

Simply have your web server "serve" the file via a static link or some similar mechanism (requires the user to have file association for .jar, and for that association to launch a Java 6 JRE)

- Using Java WebStart technology

Only requires the user to have some Java installed (does not have to be Java 6)

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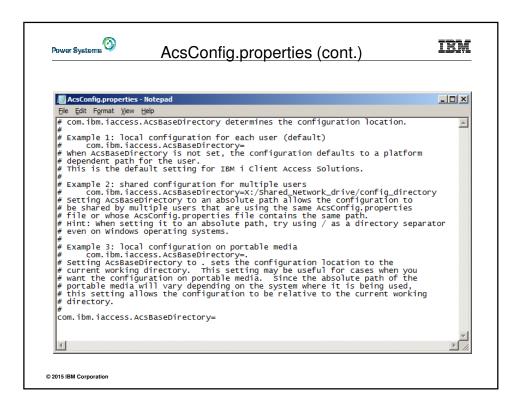
How do I control the User Settings?

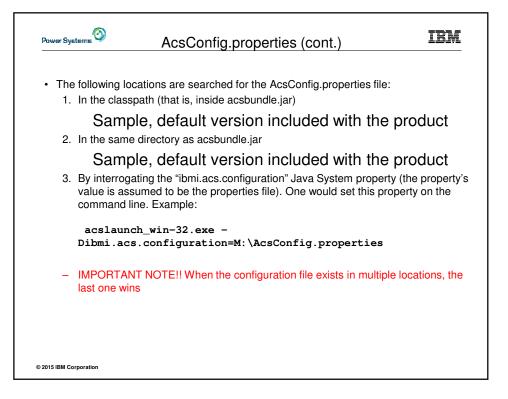


AcsConfig.properties

- This can be configured in the product configuration file, named "AcsConfig.properties"
- · AcsConfig.properties is simply a list of configuration properties and values.
- These properties may also be specified on the command line
 D<property>=<value>
- · One such property is

com.ibm.iaccess.AcsBaseDirectory







com.ibm.iaccess.AcsBaseDirectory

IBM

- The value of this property determines:
 - The location of user settings
 - The location of service logs/dumps/etc
 - The default directory used by the 5250 session manager (this can be configured separately if desired)
- The value is expected, therefore, to be a directory name on a filesystem. It can be
 - Left blank (which leaves behavior at the default location)
 - The path of a hardcoded directory name (fully-qualified is highly recommended)
 - A constructed path using special keywords (next slide)



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AcsBaseDirectory: Special keywords

IBM

- {USER} : would be the current username (valid anywhere in the path)
- {PRODUCTDIR} : would mean the product's location in the file system (valid only at the beginning)
- {TEMPDIR}: would be the temporary directory (valid only at the beginning)
- {ROOT} : the root of the file system where the product is located (valid only at the beginning)
- {CWD} : the current working directory (valid only at the beginning)
- {HOME} : the user's home directory (valid only at the beginning)
- {DEFAULT} : the default place the product normally puts its settings (valid only at the beginning)



IBM

POP QUIZ

You have deployed the ACS jar file on a network share. Most users map this share as "M:" (Linux users have mounted it as /mnt/shr1).

You want user settings to also be stored on the network share. You also want each user's settings to be saved in its own location.

Is this even possible?

- a) Yes
- b) No

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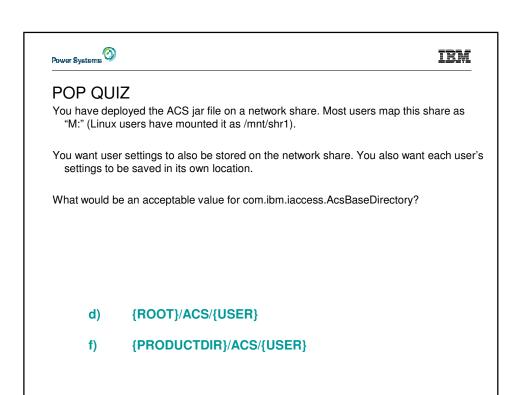
POP QUIZ

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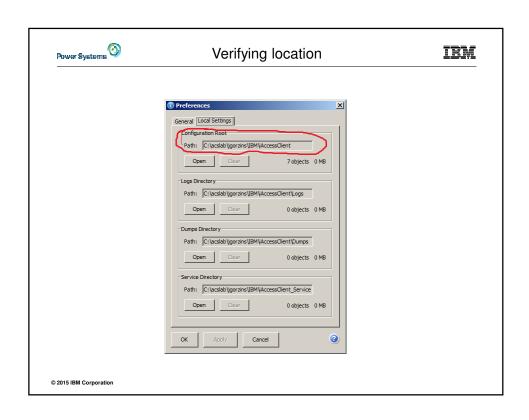
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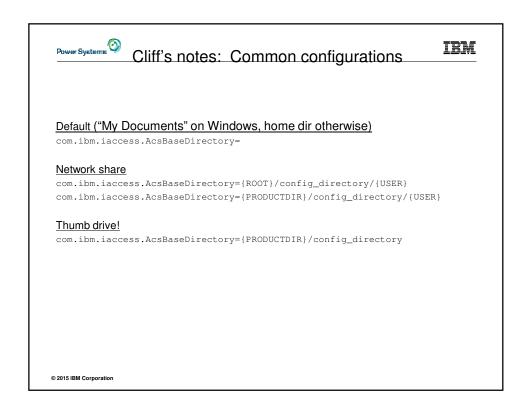
Is this even possible?

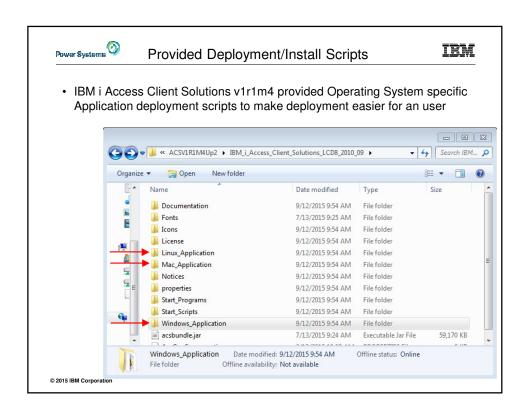
a) Yes

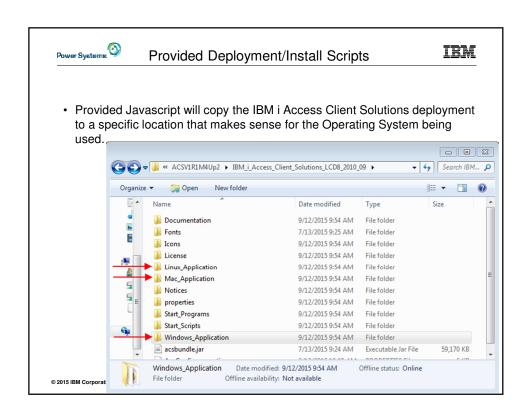


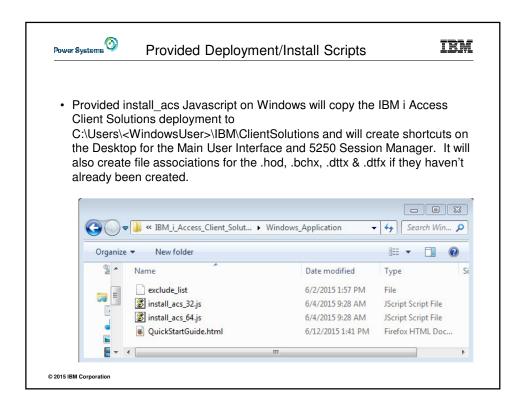


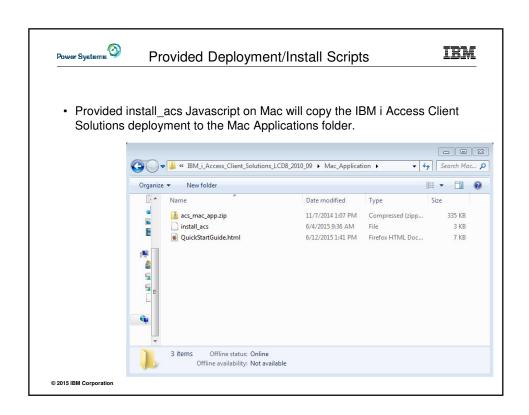










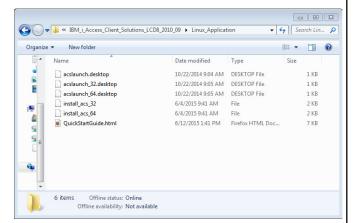




Provided Deployment/Install Scripts

IBM

- Provided install_acs Javascript on Linux will copy the IBM i Access Client Solutions deployment to the locations of
 - /usr/share/applications/
 - /opt/ibm/iAccessClientSolutions/



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Provided Deployment/Install Scripts



- IBM i Access Client Solutions v1r1m4 Update 3 (October 2015) provided an update to these deployment scripts for Windows to allow an Administrator to control some of the deployment behavior and how the client behaves for the user.
 - An Administrator runs the script passing a parameter of /AdminConfig
 - The Administrator is then presented with a series of questions about the deployment, like if ACS should be ran locally or remotely, what functions will the user have, and if desktop icons should be created.
 - The IBM i Access Client Solutions product files are placed in a central location
 - Users run the deployment script and IBM i Access Client Solutions is deployed to their Windows workstation.
- · More Details
 - https://www.ibm.com/developerworks/ibmi/library/i-ibmi-accessclient-solutions-customization-trs/
 - http://www-01.ibm.com/support/docview.wss?uid=nas8N1020967

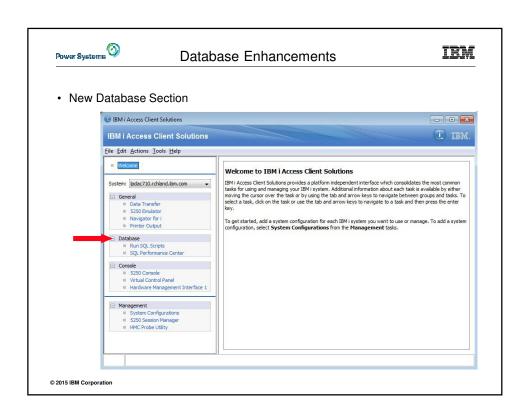


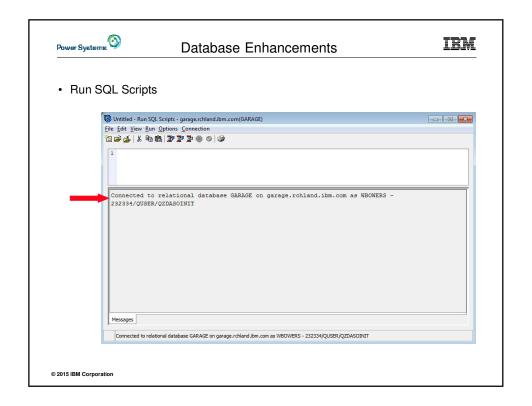
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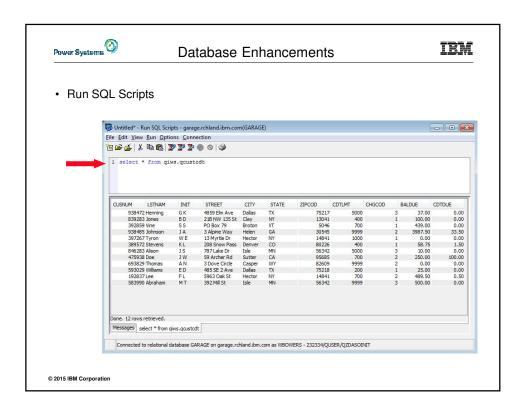
Database Enhancements

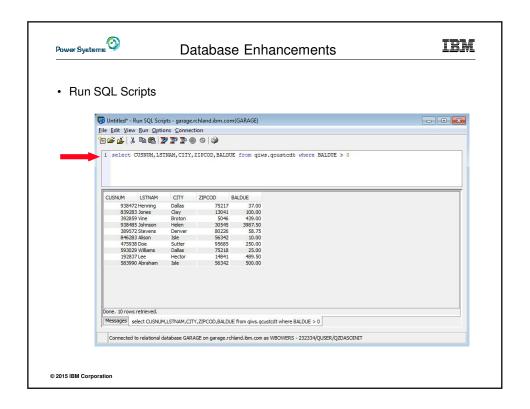


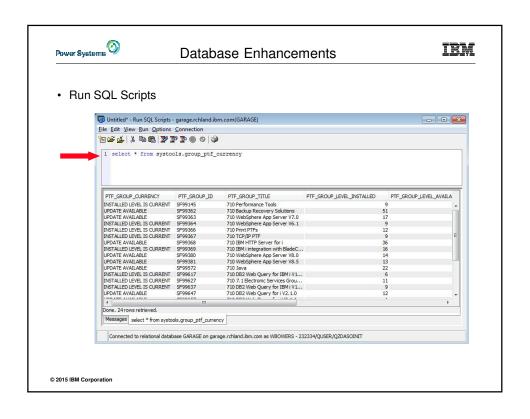
- IBM i Access Client Solutions v1r1m5 released December 2015 added a section of Database functions
 - Run SQL Scripts
 - SQL Performance Center
 - Closing the gap to Access for Windows System i Navigator
 - Visual Explain expected around July 2016

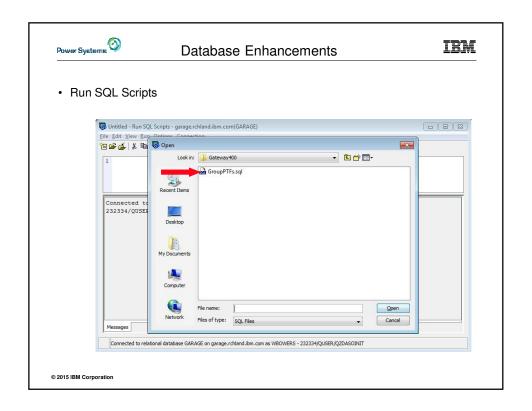


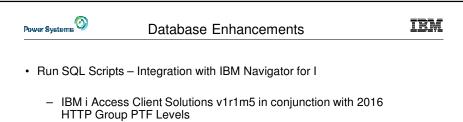




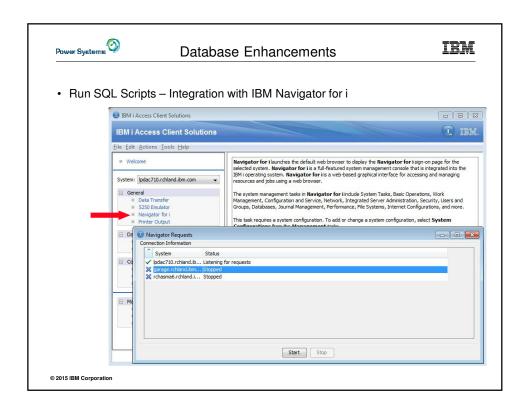


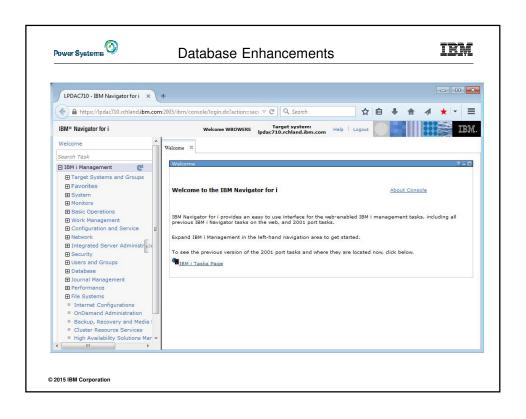


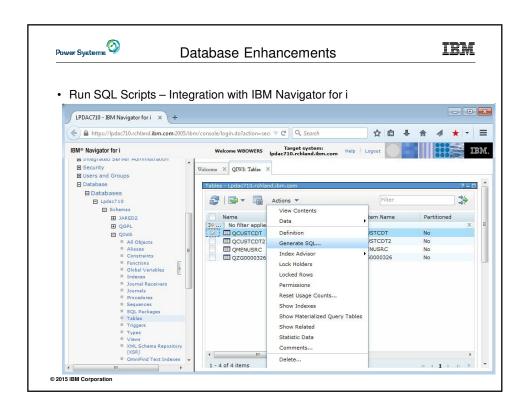


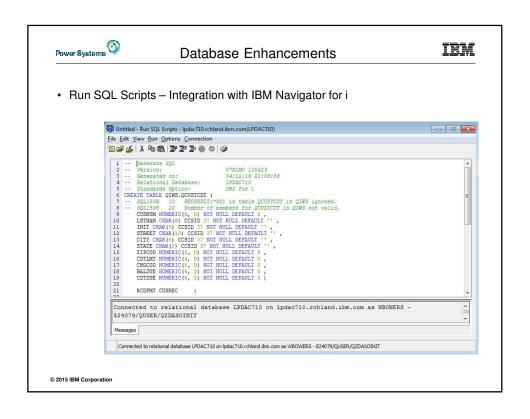


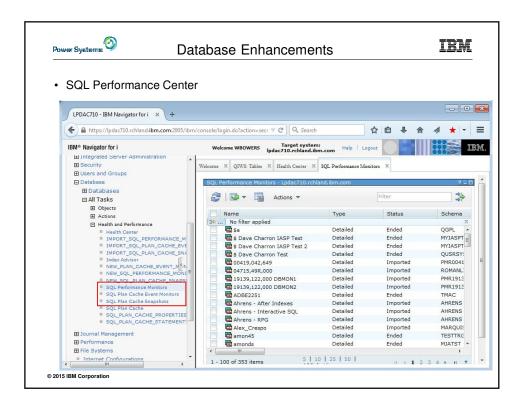
- A connection link is created between IBM Navigator for I
 - IBM i ACS authenticated/cached credentials are used to authenticate with IBM Navigator for i
 - No Kerberos integration
 - Allows IBM Navigator for i to send requests to IBM i Access Client Solutions

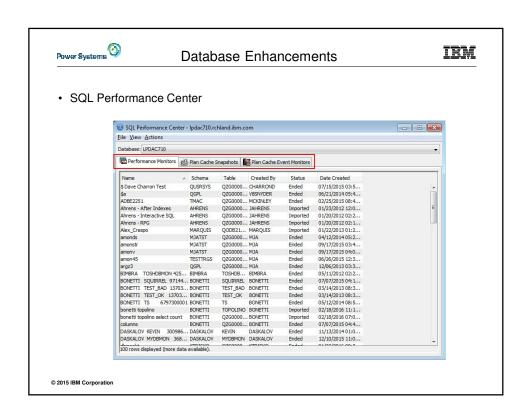


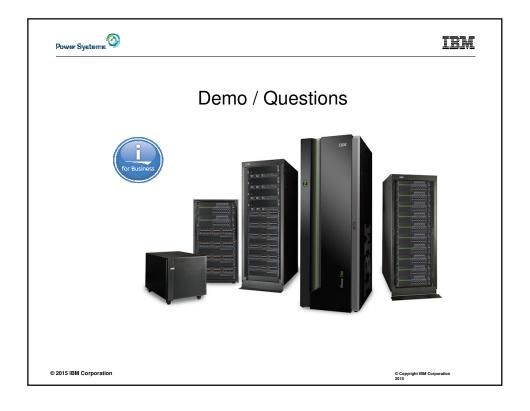














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IBM benchmark results can be found in the IBM Power Systems Performance Report at http://www.ibm.com/systems/p/hardware/system perf.html

All performance measurements were made with AIX or AIX 5L operating systems unless otherwise indicated to have used Linux. For new and upgraded systems, AIX Version 4.3, AIX 5L or AIX 6 were used. All other systems used previous versions of AIX. The SPEC CPU2006, SPEC2000, LINPACK, and Technical Computing benchmarks were compiled using IBMs high performance C, C++, and FORTRAN compilers for AIX 5L and Linux. For new and upgraded systems, the latest versions of these compilers were used: XL C Enterprise Edition V7.0 for AIX, XL C/C++ Enterprise Edition V7.0 for AIX, XL FORTRAN Enterprise Edition V9.1 for AIX, XL C/C++ Advanced Edition V7.0 for Linux, and XL FORTRAN Advanced Edition V9.1 for Linux. The SPEC CPU95 (retired in 2000) tests used preprocessors, KAP 3.2 for FORTRAN and KAP/C 1.4.2 from Kuck & Associates and VAST-2 v4.0 IX8 from Pacific-Sierar Research. There reprocessors were purchased separately from these vendors. Other software packages like IBM ESSL for AIX, MASS for AIX and Kazushige Goto's BLAS Library for Linux were also used in some benchmarks.

For a definition/explanation of each benchmark and the full list of detailed results, visit the Web site of the benchmark consortium or benchmark vendor

http://www.tpc.org

SPEC

http://www.spec.org http://www.netlib.org/benchmark/performance.pdf http://www.proe.com

LINPACK Pro/E GPC NotesBench http://www.spec.org/gpc http://www.notesbench.org VolanoMark http://www.volano.com STREAM http://www.svirginia.edu/stream/
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Power Systems On Notes on HPC benchmarks and values



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All performance measurements were made with AIX or AIX 5L operating systems unless otherwise indicated to have used Linux. For new and upgraded systems, AIX Version 4.3 or AIX 5L were used. All other systems used previous versions of AIX. The SPEC CPU2000, LINPACK, and Technical Computing benchmarks were compiled using IBMs high performance C, C++, and FORTRAN compilers for AIX 5L and Linux. For new and upgraded systems, the latest versions of these compilers were used: XL C Enterprise Edition V7.0 for AIX, XL C/C++ Edition V7.0 for AIX, XL C/C++ Advanced Edit

For a definition/explanation of each benchmark and the full list of detailed results, visit the Web site of the benchmark consortium or benchmark vendor.

http://www.spec.org LINPACK http://www.netlib.org/benchmark/performance.pdf

Pro/E

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54



Notes on performance estimates

IBM

- · rPerf for AIX
- rPerf (Relative Performance) is an estimate of commercial processing performance relative to other IBM UNIX systems.
 It is derived from an IBM analytical model which uses characteristics from IBM internal workloads, TPC and SPEC benchmarks. The rPerf model is not intended to represent any specific public benchmark results and should not be reasonably used in that way. The model simulates some of the system operations such as CPU, cache and memory. However, the model does not simulate disk or network I/O operations.
- rPerf estimates are calculated based on systems with the latest levels of AIX and other pertinent software at the time of
 system announcement. Actual performance will vary based on application and configuration specifics. The IBM
 eServer pSeries 640 is the baseline reference system and has a value of 1.0. Although rPerf may be used to
 approximate relative IBM UNIX commercial processing performance, actual system performance may vary and is
 dependent upon many factors including system hardware configuration and software design and configuration.
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 underlying system architecture.
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- -----
- · CPW for IBM i
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 More performance information is available in the Performance Capabilities Reference at:
 www.ibm.com/systems/i/solutions/perfmgmt/resource.html

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