

IBM i Access Client Solutions 5733-XJ1 (ACS)

12/4/2015 update
Version 1.1.1.5 Build 5492

iSolutions Consulting, Inc 1 1/27/2016

Speaker



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Website: www.iscllc.biz

Thank you for the opportunity to present to your group

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Disclaimer



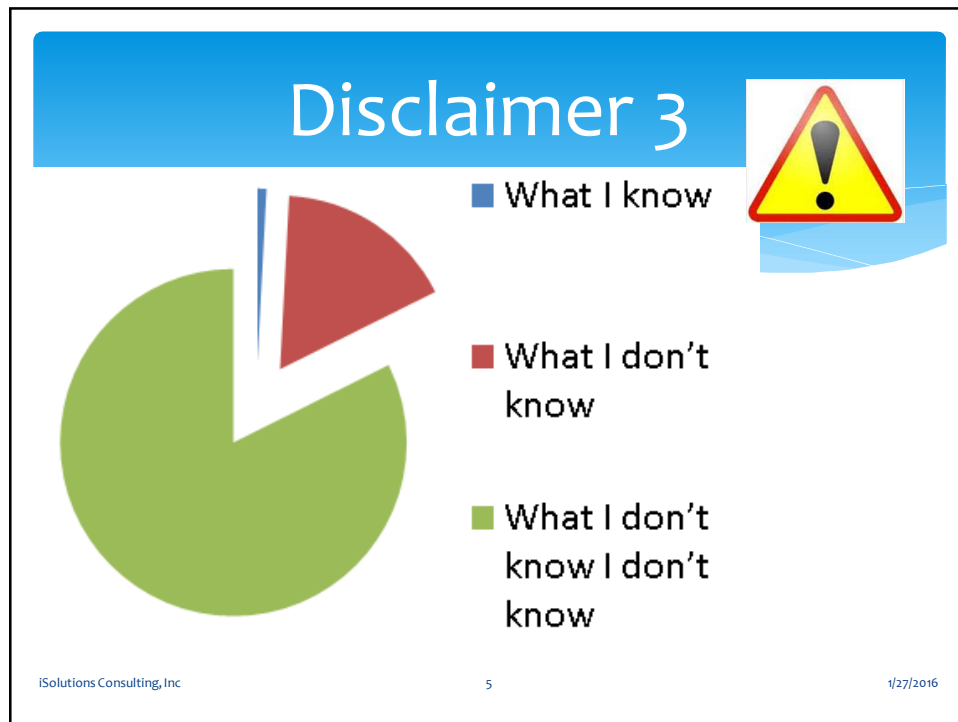
All examples are provided as is. No warranty claims are expressed or implied. Before using the product, verify that you are using the most current version. All opinions expressed are those of the presenter.

Disclaimer 2



Most examples shown require administrative authority on the PC and/or the IBM i. You've been warned 😊

ASK QUESTIONS – This presentation is for you. I don't know what you don't know!



- ## Learning Objectives
1. Find the streamlined process for downloading IBM i ACS.
 2. Review deployment options.
 3. Limit powerful functions like Data Transfer, Console functions, and Management functions
 4. Identify new features that are in the December 2015 release of ACS.
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IBM i Access Client
Solutions
5733-XJ1 (ACS)
The Java Client



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Client Access, Access Client Solutions,
Access for i, IBM i Access, Host access
transform, Access for web, IBM i Access for
Windows, iSeries access, Navigator for i,
System i Navigator, Access for Windows...

The Java Client



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Introduction

(The run anywhere client)

IBM i Access Client Solutions product (ACS) replaces the IBM i Access for Windows client.

- The product is 5733-XJ1, currently at version 1.1.5.0.
- IBM's emphasis – it runs anywhere (that Java runs)
- The will run from a thumb drive!
- The product is not **“installed”** but runs from jar file.
- The product can be launched from a remote drive.

Replacement for:

Are you familiar with 5770-XW1, the classic IBM i Access for Windows product?

IBM i Access for Windows Properties

IBM i Access for Windows
Version 7 Release 1 Modification level 0 Service level SI45664
Installed: 6/6/2012 12:51:31 PM
Installed to directory:
C:\Program Files\IBM\Client Access

Sign On

User:
Password:
Program/procedure:
Menu:
Current Library:

System: ZEUS
Subsystem: CENTER
Display: 0PT199001

IBM i Access Windows
V7R1Mo

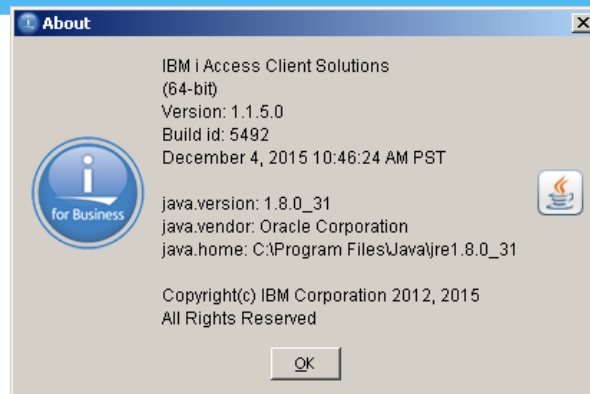
Data Transfer to IBM i

Operations Console

System i Navigator

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Current Version



The current Version – available now!

Learning Objectives

1. **Find the streamlined process for downloading IBM i ACS.**
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How do I get the product?

Last year:

- Fully licensed code must be downloaded from IBM's Entitled Software Support (ESS) web site. **This WAS a one time requirement.**
- Finding the product on the ESS website required a SIX Page Treasure Map. IBM hid the product very well. 😊

This year

- The fully licensed product can be now be downloaded directly from IBM i Access Client Solutions web site.
- <http://www.ibm.com/systems/power/software/i/access/solutions.html>

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

How do I get the product?

IT infrastructure > Power Systems > Software > IBM i >

IBM i Access

Overview Client Solutions Windows Linux Web M

Overview Support Resources

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](#)

Access videos

- Introduction to IBM i Access Client Solutions (00:01:17)
- All IBM i Access videos

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

How do I get the product?

IBM i Access Client Solutions

IBM Software

- Products
- Services
- Downloads
- Library
- News
- Training and certification
- Events
- Support

- Communities:
- IBM Business Partners
 - ISVs
 - Developers

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To find out more about the benefits of having an IBM Registration ID, visit the [IBM ID Help and FAQ](#).

IBM ID required

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How do I get the product?

Confirm or update personal information (not shown here) then check the 'I agree' checkbox then click on the **I confirm** button.

I confirm

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→ [Edit personal information](#)

Asterisks (*) indicate fields required to complete this transaction.

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Please keep me informed of products, services and offerings from IBM companies worldwide.

- by email.
- by telephone.
- by postal mail.

I accept [IBM's Privacy statement](#).

License

To view the license, click the "View license" link below. If this displays in a second browser window, please use the "Back" button on your browser to return to the previous page, or close the window or browser session that is displaying this page.

→ [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*

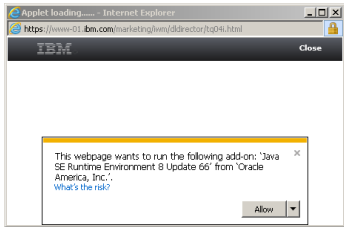
I agree

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

Download Director requires a java add-on I prefer http. It always works.



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IBM i Access Client Solutions

Downloads

IBM i Access Client Solutions
English
2015-12-04

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](#).

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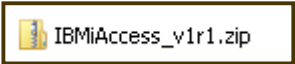
Select all files

- IBM i Access Client Solutions
IBMiAccess_v1r1.zip (67 MB)
- Readme file for 5733-XJ1
[Readme.txt](#) (4 KB)
- Quick Start Guide
[QuickStartGuide_en.html](#) (7 KB)
- Getting Started
[GettingStarted_en.html](#) (91 KB)

Download now

I find that downloading using the http interface is more reliable.

I recommend downloading all the documentation along with the ZIP file.



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IBM i Access Client Solutions

Downloads

IBM i Access Client Solutions
English
2015-12-04

To download using http, click on 'Download now'.


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Download using Download Director Download using http











IBM i Access Client Solutions IBMiAccess_v1r1.zip (67 MB)	Download now
Readme file for 5733-XJ1 Readme.txt (4 KB)	Download now
Quick Start Guide QuickStartGuide_en.html (7 KB)	Download now
Getting Started GettingStarted_en.html (91 KB)	Download now

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Un-Zipped:

 IBMiAccess_v1r1.zip



 Documentation	1/25/2016 2:28 PM	File folder	
 Fonts	12/4/2015 10:49 AM	File folder	
 Icons	1/25/2016 2:28 PM	File folder	
 Linux_Application	1/25/2016 2:28 PM	File folder	
 Mac_Application	1/25/2016 2:28 PM	File folder	
 Start_Programs	1/25/2016 2:28 PM	File folder	
 Windows_Application	1/25/2016 2:28 PM	File folder	
 acsbundle.jar	1/25/2016 2:29 PM	Executable Jar File	63,628 KB
 AcsConfig.properties	1/25/2016 2:28 PM	PROPERTIES File	6 KB
 QuickStartGuide.html	1/25/2016 2:28 PM	Firefox HTML Document	8 KB

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Learning Objectives

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Deployment Options

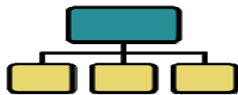


Local Computer

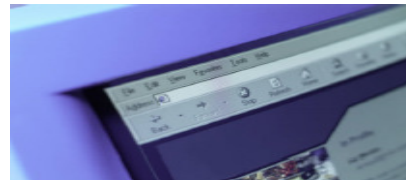


Thumb Drive

Any file system (local, USB drive, network) or Intranet link (<http://> or <https://>)
NOTE: A Java Runtime Environment (JRE) will also need to be accessible




Network Share




Intranet (<http://> URL)

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Deployment options



- Deployment control resides primarily in the configuration file: **AcsConfig.properties**
- The **AcsConfig.properties** file contains code examples.
- Full Documentation can be found in [/Documentation/GettingStarted.HTML](#)

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AcsConfig.properties

```

1 # com.ibm.iaccess.AcsBaseDirectory determines the configuration location.
2 #
3 # Special keywords are provided which can be used when defining the configuration
4 # path. When the keywords are used in the specified path, the keywords will be
5 # substituted with the text or path they define. Only one keyword can be used
6 # in the configuration path. The special keywords and their meanings are:
7 #     {USER} - The current user id. This keyword can be anywhere in the path
8 # The following keywords can only be at the beginning of the specified path:
9 #     {PRODUCTDIR} - the path to the same directory as acsbundle.jar
10 #     {TMPDIR} - the path to a platform specific temporary directory
11 #     {ROOT} - the path to the root of the file system
12 #     {HOME} - the path to the user's home directory
13 #     {DEFAULT} - the default path the product would normally use
14 #
15 # Technical Note:
16 # We do not recommend sharing a configuration between multiple users.
17 # For example, if X were a shared network drive, the following setting may
18 # cause unpredictable results:
19 #     com.ibm.iaccess.AcsBaseDirectory=X:/Shared_Network_drive/config_directory
20 # There are several problems with multiple users sharing this configuration path:
21 # 1. Unpredictable results will occur if multiple users simultaneously use the
22 #    configuration.
23 # 2. This example assumes each user has the X drive mapped to the same location.
24 # 3. Using a network drive in the configuration would not work from a Linux or
25 #    Mac client. Using the provided keywords, as in the examples below,
26 #    will work on Windows, Linux and Mac

```

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Deployment options

 AcsConfig.properties

The following locations are searched for the AcsConfig.properties file:

1. In the classpath (that is, inside acsbundle.jar)
2. In the same directory as acsbundle.jar.
3. By interrogating the “ibmi.acs.configuration” Java System property (the property’s value is assumed to be the properties file). One would set this property on the command line.

Example:

```
acslaunch_win-32.exe-Dibmi.acs.configuration=M:\AcsConfig.properties
```

* **IMPORTANT NOTE!!** When the configuration file exists in multiple locations, the last one wins

com.ibm.iaccess.AcsBaseDirectory

 AcsConfig.properties

The value of this property parameter 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 (fully-qualified is highly recommended)
- A constructed path using special keywords (next slide)

com.ibm.iaccess.AcsBaseDirectory :

AcsConfig.properties

Special keywords

- **{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)
- **{TMPDIR}** : 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)

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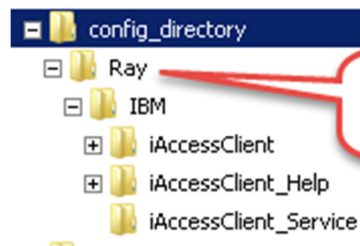
com.ibm.iaccess.AcsBaseDirectory

AcsConfig.properties

Example:

com.ibm.iaccess.AcsBaseDirectory={PRODUCTDIR}/config_directory/{USER}/

Results:



Each user will have a personal directory.

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Deployment options

 AcsConfig.properties

Tips:

- Always use a “/” forward slash not “\” ;
‘/’ Works with all Operating Systems.
- When the configuration file exists in multiple locations, the last one wins.

Deployment options

 AcsConfig.properties

What is this “data cache”?

An optimization which improves startup time.

Without “data cache”:

- Information is cached after first product startup.
- Second startup is, therefore, faster.
- A new version of acsbundle.jar will trigger the cache to be updated.
- The cache does not need to be “managed.”

With “data cache”:

- Much more information is cached after first product startup. Temporary disk space is used.
- Second startup is, therefore, faster.
- A new version of acsbundle.jar will trigger the cache to be updated.

Deployment options

 AcsConfig.properties

My recommendation is to uncomment the following line in AcsConfig.properties.

com.ibm.iaccess.DataCache=true



Why is this not the default?


– Temporary disk space usage is not conservative. May be prohibitive.

Deployment Questions


 AcsConfig.properties

- **Where do you want to store the Product Image? (The Jar File)**
- **Where do you want to store the users settings? (5250 sessions etc.?)**
- **Where is your JRE? (Java Runtime Environment)**

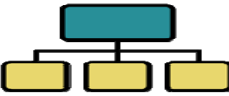
Deployment Options




Local Computer



Thumb Drive




Network Share



Intranet ([http:// URL](#))

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Java Deployment options

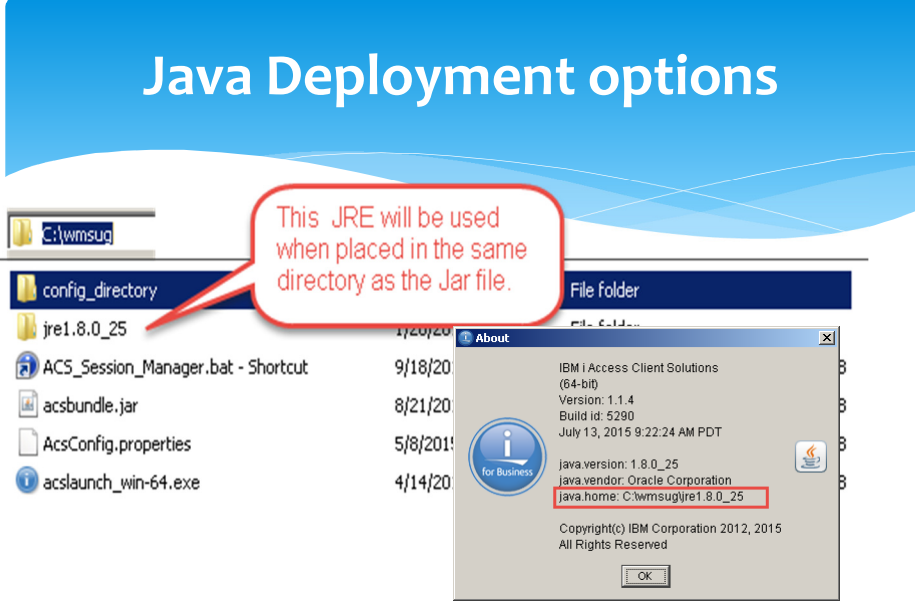


JRE – Java Runtime Environment

- The JRE that is used can affect what functions work or don't work. 🌐
- A specific JRE can be deployed with product.
- Does your shop have unique requirements?
- Do you keep it on a thumb drive?

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Java Deployment options

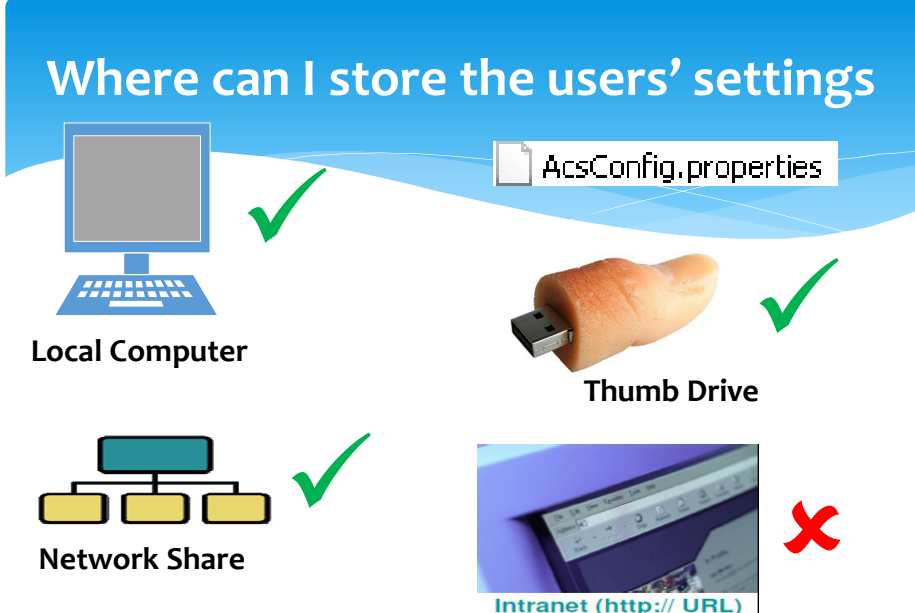


This JRE will be used when placed in the same directory as the Jar file.

IBM i Access Client Solutions (64-bit)
Version: 1.1.4
Build id: 5290
July 13, 2015 9:22:24 AM PDT
java.version: 1.8.0_25
java.vendor: Oracle Corporation
java.home: C:\wmsug\jre1.8.0_25
Copyright(c) IBM Corporation 2012, 2015
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Where can I store the users' settings



AcsConfig.properties

Local Computer ✓

Thumb Drive ✓

Network Share ✓

Intranet (http:// URL) ✗

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Deployment options



How to start the product:

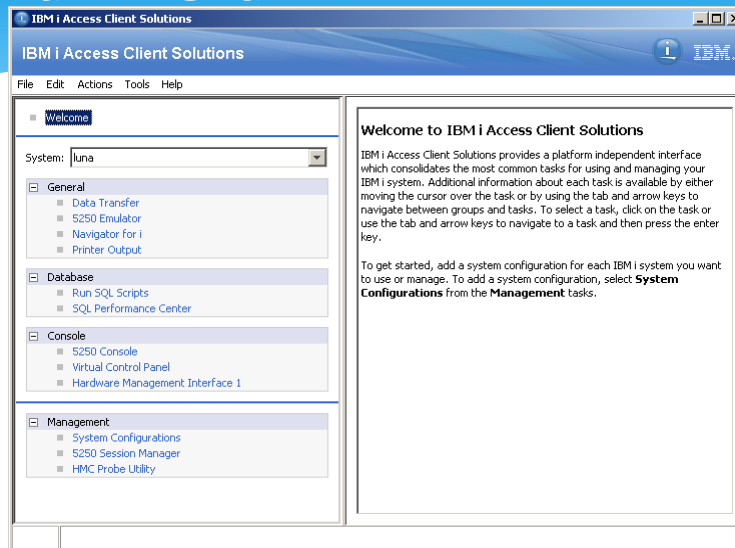
1. Binary launcher program (Preferred)

 acslaunch_win-64.exe

2. "java -jar acsbundle.jar" (command line)

3. Double click on Jar file  acsbundle.jar

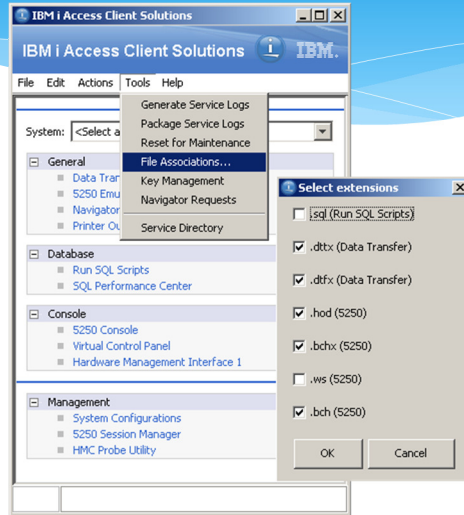
Main Menu



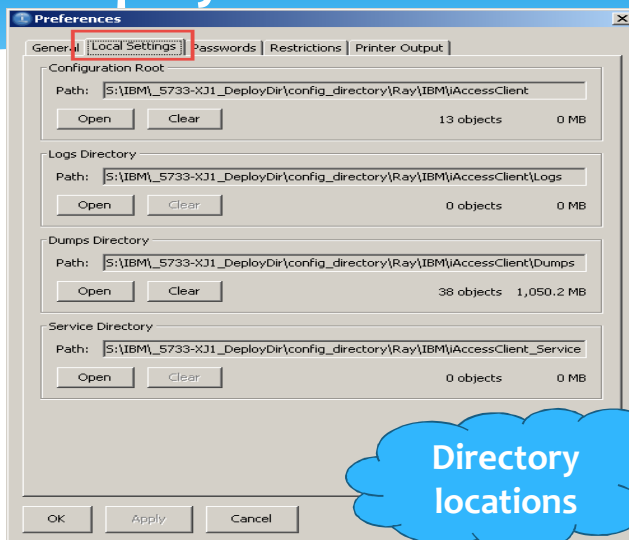
Installation ?

FYI

- In the interest of full disclosure, there is actually a pseudo install function:
File Associations
- File associations creates the illusion of an installed program.



Deployment locations



Deployment on a Terminal Server



Deploy local workstation install on Terminal Server

- Launch Start Program calling 5250 – Specific .hod file:
acslaunch_win-32.exe SystemA.hod
- Dynamic 5250 session:
acslaunch_win-32.exe /plugin=5250
/system=<system> [/id=<short session id>]
[/<options>

Deployment on a Terminal Server



• 5250 Plugin Options

<code>/plugin=5250 /system=IBMiSystem [/<options>]</code>	
<code> /name=<name></code>	Session name
<code> /wide=<1/0/true/false></code>	Use a wide screen size (27x132)
<code> /fullscreen=<1/0/true/false></code>	Use the entire screen
<code> /nosave=<1/0/true/false></code>	Do not save settings on exit
<code> /prompt=<1/0/true/false></code>	Force the configuration dialog to appear
<code> /port=<port></code>	Port number
<code> /ssl=<1/0/true/false></code>	Connect using secure sockets
<code> /sso=<1/0/true/false></code>	Use kerberos
<code> /width=<width></code>	Initial width of the emulator window
<code> /height=<height></code>	Initial height of the emulator window
<code> /xpos=<xpos></code>	Initial x-coordinate of the top-left corner
<code> /ypot=<ypos></code>	Initial y-coordinate of the top-left corner

Deployment on a Terminal Server



- Biggest concern with local workstation deployment on Terminal Server is that each client connection will start a unique Java JVM
- This can have significant performance considerations for the scalability of the Terminal Server Environment
- Can set Java JVM memory via parameters to the acslaunch Start Program

Recommended:

- `acslaunch_win-32.exe SystemA.hod -Xmx1024m`

Lower for small PC5250 JVM

- `acslaunch_win-32.exe SystemA.hod -Xmx512m`

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Learning Objectives

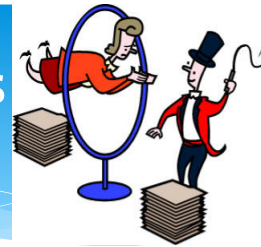
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Limiting Access



How controlling do you need to be:

1. Edit -> Preferences -> Restrictions tab is the first line of defense.
2. Exclude keyword in AcsConfig.properties.
3. Restrict Plugin when initiating ACS from batch file.
4. Edit the AcsConfig.properties inside Jar file.

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Limiting Access - 1

IBM i Access Client Services Preferences dialog box, Restrictions tab. The Restrictions tab is highlighted with a red box. The dialog shows various system functions that can be restricted, such as System Configurations, S250 Session Manager, S250 Emulator, Virtual Control Panel, S250 Console, Search the local network for console configurations, HMC Probe Utility, Hardware Management Interface 1 and 2, Key Management, Data Transfer graphical user interface, Data Transfer batch uploads/downloads, Navigator for i, Remote Command, Printer Output, Run SQL Scripts, SQL Performance Center, and System Debugger.

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Limiting Access - 1

The 'Restrictions' tab is only available to an Administrator. Users without Administrator rights cannot access this panel.

IBM i Access Client Services Preferences dialog box, Restrictions tab. The Restrictions tab is highlighted with a red box. The dialog shows various system functions that can be restricted, such as System Configurations, S250 Session Manager, S250 Emulator, Virtual Control Panel, S250 Console, Search the local network for console configurations, HMC Probe Utility, Hardware Management Interface 1 and 2, Key Management, Data Transfer graphical user interface, Data Transfer batch uploads/downloads, Navigator for i, Remote Command, Printer Output, Run SQL Scripts, SQL Performance Center, and System Debugger.

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Limiting Access - 1

The 'Restrictions' tab in the Preferences dialog box shows the following options:

- System Configurations
- S250 Session Manager
- S250 Emulator
- Virtual Control Panel
- S250 Console
- Search the local network for console configurations
- HMC Probe Utility
- Hardware Management: Interface 1
- Hardware Management: Interface 2
- Key Management
- Data Transfer graphical user interface
- Data Transfer batch uploads (.dtx files)
- Data Transfer batch downloads (.dtfx files)
- Data Transfer batch downloads (CLDOWNLOAD plugin)
- Navigator for i
- Remote Command
- Printer Output

The IBM i Access Client Solutions GUI shows the 'Management' section with the 'S250 Session Manager' option visible, indicating that this function is not restricted.

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Limiting Access 2

AcsConfig.properties

Use 'ExcludeComps' keyword in AcsConfig.properties.

- Restricting access will remove the function from the main GUI and disable its usage from the command line.

Example:
`com.ibm.iaccess.ExcludeComps=OPCONSOLE,HWCONSOLE`

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Limiting Access 2

Exclude keyword	Function Description
cfg	System Configurations
sm	5250 Session Manager
5250	5250 Emulator
vcp	Virtual Control Panel
console	5250 Console
consoleprobe	Search the local network for console configurations
hmcprobe	Search an HMC for partitions
hmi1	Hardware Management Interface 1
hmi2	Hardware Management Interface 2
keyman	SSL/TLS certificate management
dtgui	Data Transfer graphical user interface
upload	Data Transfer batch uploads
download	Data Transfer batch downloads
cldownload	Data Transfer batch downloads
l1c	IBM Navigator for i (Level 1 Console)
rmtcmd	Remote command (available from the command-line)
splf	Printer Output (spool files)
rss	Run SQL Scripts
db2tools	SQL Performance Center
sysdbg	IBM i System Debugger

AcConfig.properties

Limiting Access 3

acslaunch_win-64.exe

Use the 'Restrict' Plugin when initiating ACS from batch file.

Note: This plugin is only available to users with root or administrator authority. /PLUGIN=restrict /<options>

/PLUGIN=restrict /<options>

Limiting Access 3

 acslaunch_win-64.exe

Valid options are:

/restrict=<func1,func2,func3>	Restricts the given functions on this workstation.
/unrestrict=<func1,func2,func3>	Allows the given functions on this workstation.
/list	Lists whether functions are a restricted or allowed on this workstation.
/export=<file>	Export restrictions to the named file with a .acsr file extension.
/import=<file>.acsr	Import restrictions from a file with a .acsr file extension.
/exportreg=<file>	Export a Windows registry file (.reg file).

Limiting Access 3

 acslaunch_win-64.exe

Functions:

Function	Description
cfg	System Configurations
sm	5250 Session Manager
5250	5250 Emulator
vcp	Virtual Control Panel
console	5250 Console
consoleprobe	Search the local network for console configurations
hmcprobe	Search an HMC for partitions
hmi1	Hardware Management Interface 1
hmi2	Hardware Management Interface 2
keyman	SSL/TLS certificate management
dtgui	Data Transfer graphical user interface
upload	Data Transfer batch uploads
download	Data Transfer batch downloads
cldownload	Data Transfer batch downloads
l1c	IBM Navigator for i (Level 1 Console)
rmtcmd	Remote command (available from the command-line)
sp1f	Printer Output (spool files)
rss	Run SQL Scripts
db2tools	SQL Performance Center
sysdbg	IBM i System Debugger

Limiting Access 3

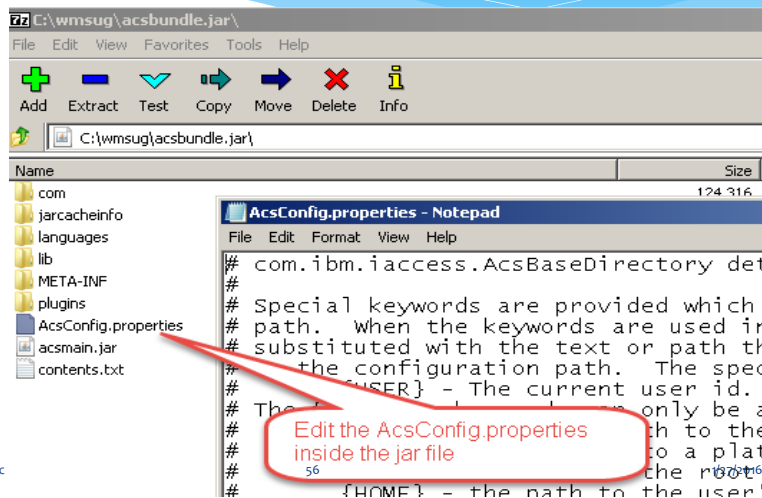
 acslaunch_win-64.exe

Functional Groups:

Group	Functions
dataxfer	dtgui,upload,download,cldownload
emulator	sm,5250
keyman	keyman
opconsole	console,vcp,consoleprobe,hmcprobe
rmtcmd	rmtcmd
splf	splf
hwconsole	hmi1,hmi2
l1cplugin	l1c
database	rss,db2tools
debugger	sysdbg

Limiting Access 4

Edit the AcsConfig.properties inside the Jar file.



The screenshot shows a file explorer window titled 'C:\wmsug\acsbundle.jar\'. The file list includes folders like 'com', 'jarcacheinfo', 'languages', 'lib', 'META-INF', 'plugins' and files like 'AcsConfig.properties', 'acsmain.jar', and 'contents.txt'. The 'AcsConfig.properties' file is selected. A Notepad window titled 'AcsConfig.properties - Notepad' is open, showing the following content:

```

File Edit Format View Help
# com.ibm.iaccess.AcsBaseDirectory det
#
# Special keywords are provided which
# path. When the keywords are used in
# substituted with the text or path th
# the configuration path. The spec
# {USER} - The current user id.
# The {USER} keyword only be a
# path to the
# to a plat
# the root
# {HOME} - the path to the user'
    
```

A red callout box with a white background and a red border points to the 'AcsConfig.properties' file in the file explorer. The text inside the callout box reads: 'Edit the AcsConfig.properties inside the jar file'.

Learning Objectives

1. Find the streamlined process for downloading IBM i ACS.
2. Review deployment options.
3. **Limit powerful functions like Data Transfer, Console functions, and Management functions**
4. Identify new features that are in the December 2015 release of ACS.

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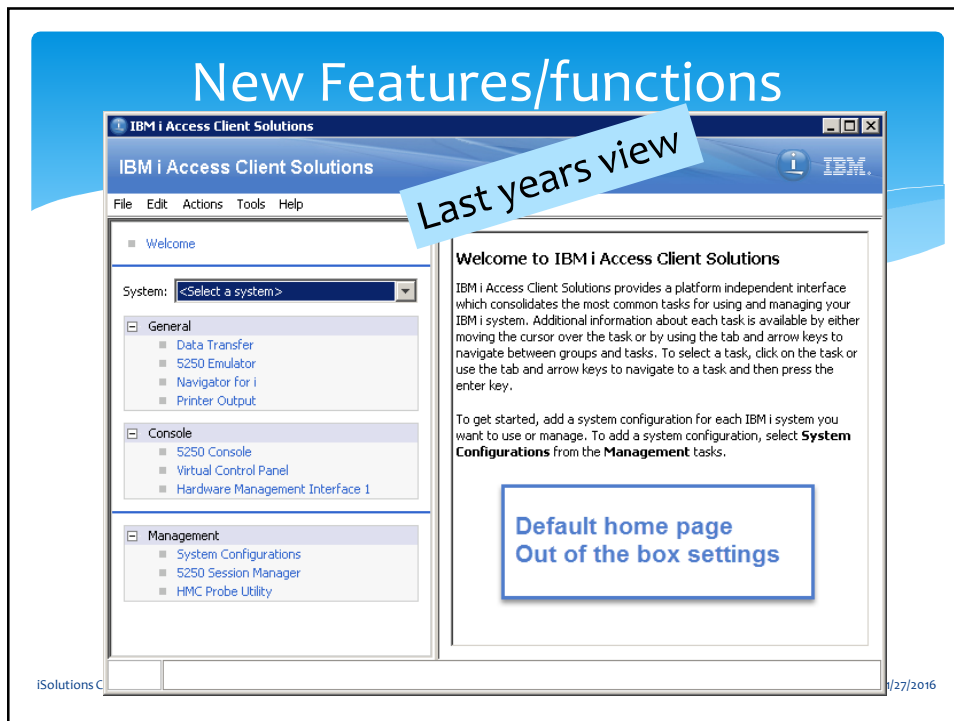
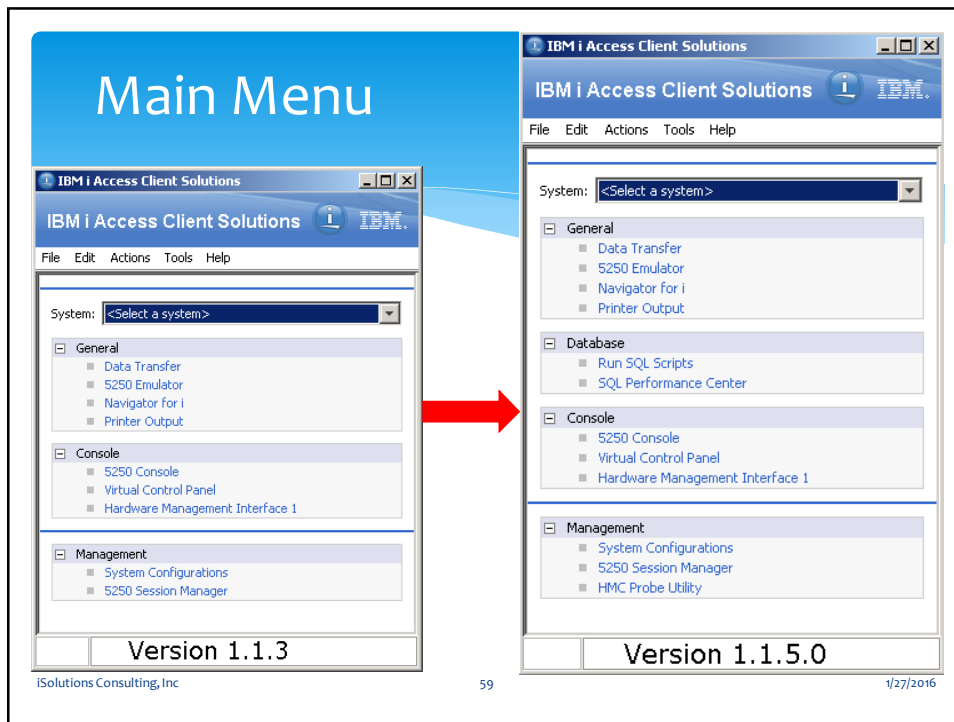
Learning Objectives

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New Features/functions

This years view

Welcome

System: <Select a system>

- [-] General
 - Data Transfer
 - S250 Emulator
 - Navigator for i
 - Printer Output
- [-] Database
 - Run SQL Scripts
 - SQL Performance Center
- [-] Console
 - S250 Console
 - Virtual Control Panel
 - Hardware Management Interface 1
- [-] Management
 - System Configurations
 - S250 Session Manager
 - HMC Probe Utility

Welcome to IBM i Access Client Solutions

IBM i Access Client Solutions provides a platform independent interface which consolidates the most common tasks for using and managing your IBM i system. Additional information about each task is available by either moving the cursor over the task or by using the tab and arrow keys to navigate between groups and tasks. To select a task, click on the task or use the tab and arrow keys to navigate to a task and then press the enter key.

To get started, add a system configuration for each IBM i system you want to use or manage. To add a system configuration, select **System Configurations** from the **Management** tasks.

Default home page
Out of the box settings

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Database

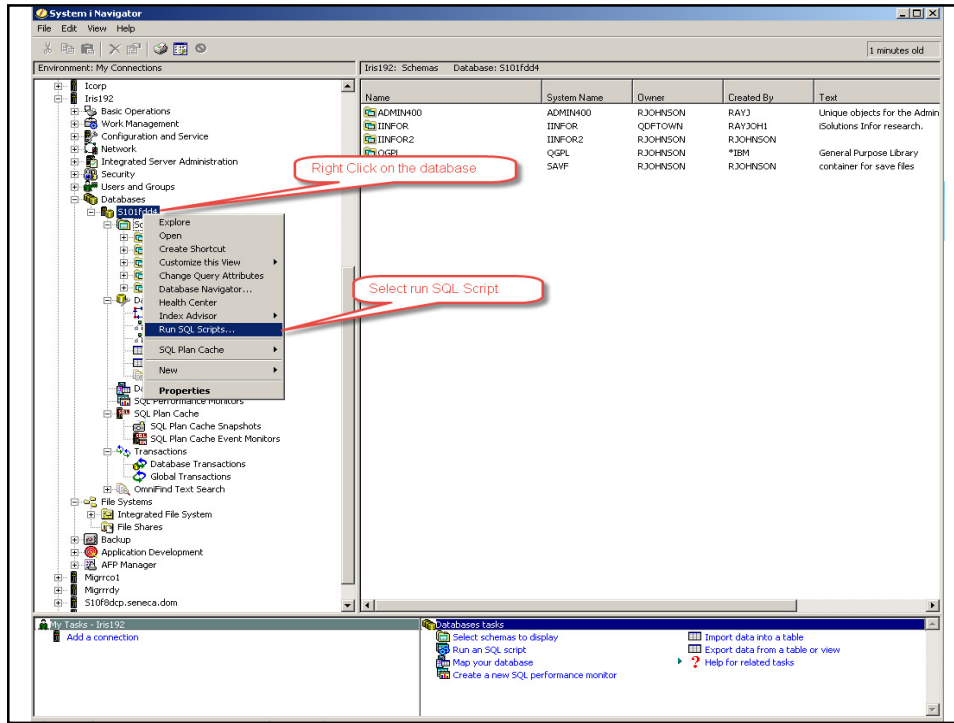
System: <Select a system>

- [-] General
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- [-] Management
 - System Configurations
 - S250 Session Manager
 - HMC Probe Utility

[-] Database

- Run SQL Scripts
- SQL Performance Center

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Database

RUN SQL scripts

Untitled - Run SQL Scripts - Iss192(S101644) *

File Edit View Run Visual Explain Monitor Options Connection Help

SELECT * FROM systools.group_ptf_currency

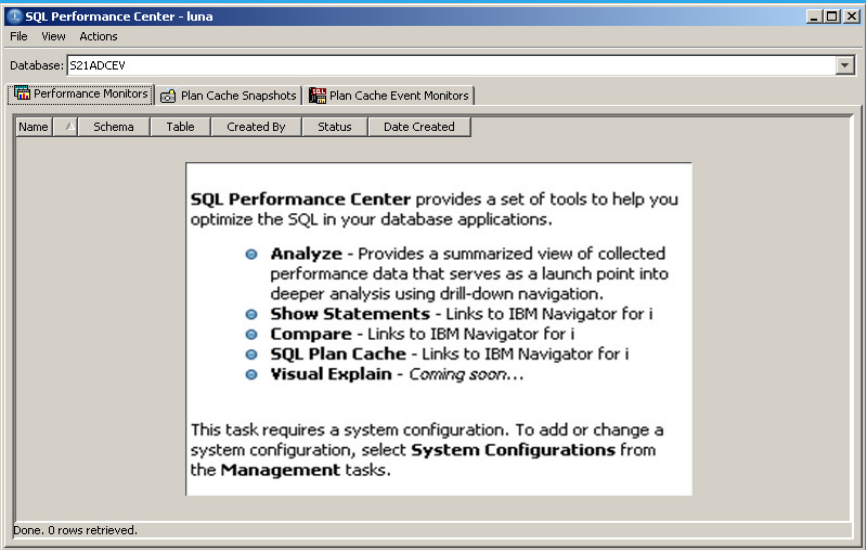
SELECT * FROM systools.group_ptf_currency

PTF_GROUP_CURRENCY	PTF_GROUP_ID	PTF_GROUP_TITLE	PTF_GROUP_LEVEL_INSTALLED	PTF_GROUP_LEVEL_AVAILABLE	PTF_GROUP_LAST_UPDATED_B...	PTF_GROUP_RELEASE	PTF_GROUP_STATUS_ON_SYSTEM
INSTALLED LEVEL IS CURRENT	SF99145	710 Performance Tools	9		9/06/02/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99362	710 Backup/Recovery Solutions	53		5/31/02/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99363	710 WebSphere App Server V7.0	18		18/11/02/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99364	710 WebSphere App Server V6.1	9		9/06/02/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99365	710 Print PTF	12		12/06/02/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99367	710 TOP IP PTF	9		9/11/02/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99368	710 IBM HTTP Server for i	37		37/12/02/2015	R710	INSTALLED
UPDATE AVAILABLE	SF99369	710 IBM Integration with BladeCenter and System x	15		16/06/02/2015	R710	INSTALLED
UPDATE AVAILABLE	SF99380	710 WebSphere App Server V8.0	11		14/10/14/2015	R710	INSTALLED
UPDATE AVAILABLE	SF99391	710 WebSphere App Server V8.5	13		14/12/11/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99372	710 Java	23		23/12/01/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99617	710 DB2 Web Query for IBM i V1.1.1	61		6/11/12/2014	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99627	710 7.1 Electronic Services Group PTF	11		11/06/02/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99627	710 DB2 Web Query for IBM i V1.1.2	9		9/06/02/2015	R710	INSTALLED
UPDATE AVAILABLE	SF99647	710 DB2 Web Query for i V2.1.0	12		13/11/19/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99701	710 DB2 for IBM i	38		38/11/20/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99705	710 Hardware and Related PTFs	24		24/12/06/2015	R710	INSTALLED
UPDATE AVAILABLE	SF99706	710 High Availability for IBM i	8		9/12/16/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99707	710 Technology Refresh	11		11/11/20/2015	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99708	710 Group Security	30		30/12/15/2015	R710	INSTALLED
UPDATE AVAILABLE	SF99709	710 Group Hiper	156		157/01/12/2016	R710	INSTALLED
INSTALLED LEVEL IS CURRENT	SF99710	Current Cumulative PTF Media Documentation	15317		15317/11/19/2015	R710	INSTALLED

Message: Global Variables: SELECT * FROM systools.group_ptf_currency

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Database



The screenshot shows the 'SQL Performance Center - luna' application window. The 'Database' dropdown is set to 'S21ADCEV'. The 'Performance Monitors' task is selected. A central text box contains the following information:

SQL Performance Center provides a set of tools to help you optimize the SQL in your database applications.

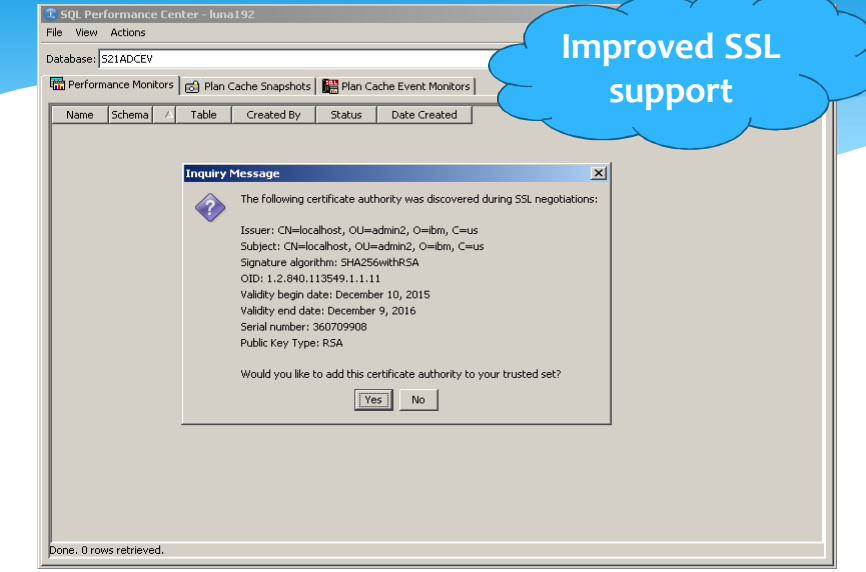
- **Analyze** - Provides a summarized view of collected performance data that serves as a launch point into deeper analysis using drill-down navigation.
- **Show Statements** - Links to IBM Navigator for i
- **Compare** - Links to IBM Navigator for i
- **SQL Plan Cache** - Links to IBM Navigator for i
- **Visual Explain** - *Coming soon...*

This task requires a system configuration. To add or change a system configuration, select **System Configurations** from the **Management** tasks.

Done. 0 rows retrieved.

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Database



The screenshot shows the 'SQL Performance Center - luna192' application window. The 'Database' dropdown is set to 'S21ADCEV'. An 'Inquiry Message' dialog box is open, displaying the following details:

The following certificate authority was discovered during SSL negotiations:

- Issuer: CN=localhost, OU=admin2, O=ibm, C=us
- Subject: CN=localhost, OU=admin2, O=ibm, C=us
- Signature algorithm: SHA256withRSA
- OID: 1.2.840.113549.1.1.11
- Validity begin date: December 10, 2015
- Validity end date: December 9, 2016
- Serial number: 360709908
- Public Key Type: RSA

Would you like to add this certificate authority to your trusted set?

A blue callout bubble with the text 'Improved SSL support' is positioned over the top right of the dialog box.

Done. 0 rows retrieved.

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Watermark

The screenshot illustrates the process of configuring a watermark in the B-5250 Display emulator. The main window shows a terminal with green text and a 'LUNA' watermark. A 'Communication' menu is open, and the 'Configure...' option is selected. A 'Screen' panel on the right shows 'Watermark Properties' with 'Watermark' checked. A 'Watermark Options' dialog box is open, showing 'Display text' as 'LUNA', 'Font' as 'Times New Roman', and 'Opacity' as '30%'. A blue cloud graphic with the word 'Watermarks' is overlaid on the terminal area.

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New! - Watermark 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

A blue cloud graphic with the word 'Watermarks' inside, positioned to the right of the list of keywords.

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The screenshot shows a terminal window titled "I - S4LUNA" with a menu bar (File, Edit, View, Communication, Actions, Window, Help) and a toolbar. The main display area has a black background with green text. At the top, it says "Command Entry" and "LUNA Request level: 4". Below that, it says "Previous commands and messages:" followed by "(No previous commands or messages)". A large blue cloud-shaped watermark with the word "Watermarks" in white is overlaid on the screen. Below the watermark, it says "Host name = luna". At the bottom of the terminal, it says "Type command, press Enter." followed by "===>". A "Watermark Options" dialog box is open, showing settings for "Text" type, "Host name = S4HOST", "Orange" color, "Times New Roman" font, "Center" position, and "50%" opacity. The dialog also has fields for "Image location", "Position", "Vertical padding", "Horizontal padding", and "Opacity". The terminal shows a command prompt "MA I" and a list of function keys: "F3=Exit F4=Prompt F9=Retrieve F10=Inc F11=Display full F12=Cancel F13=Inf". The status bar at the bottom shows "iSolutions Consulting, Inc", "69", and "1/27/2016".

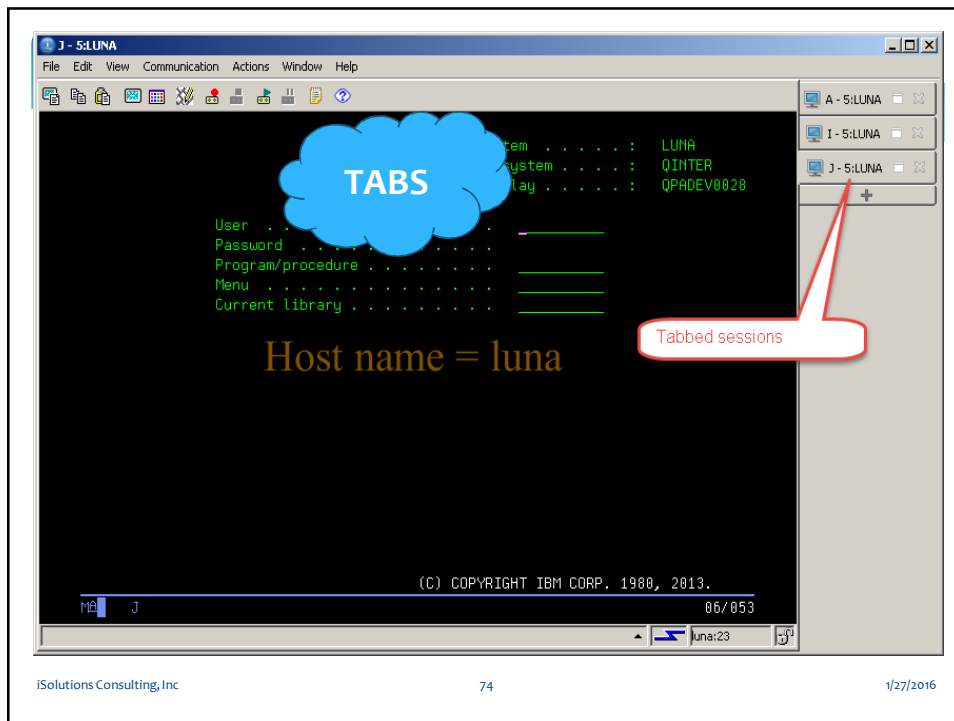
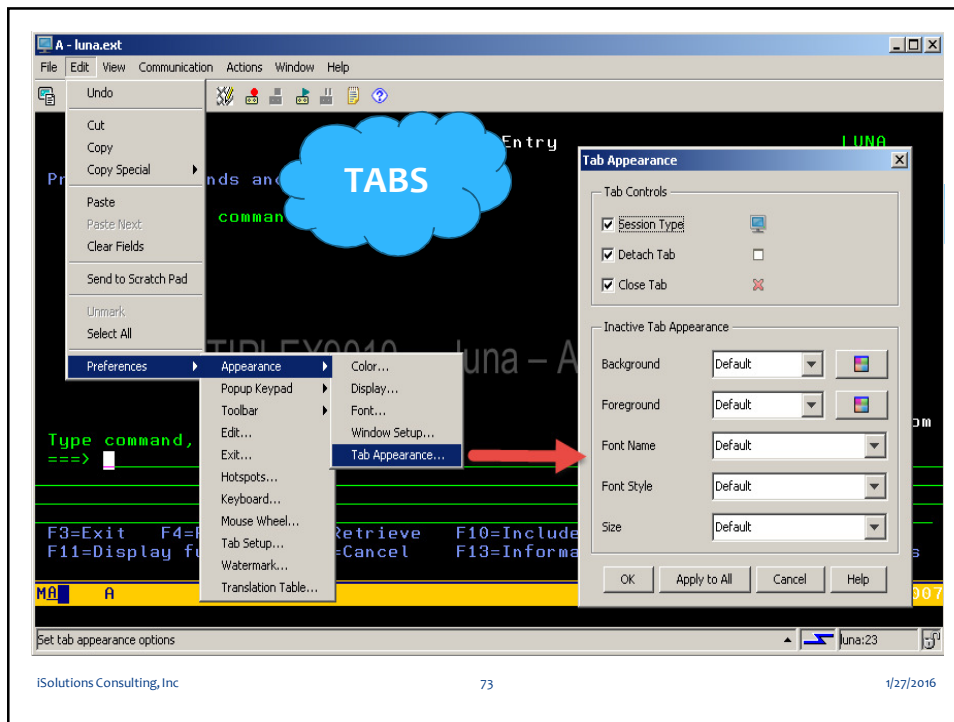
The screenshot shows a terminal window titled "G - 4dLUNA" with a menu bar (File, Edit, View, Communication, Actions, Window, Help) and a toolbar. The main display area has a black background with green text. At the top, it says "Command Entry" and "LUNA Request level: 4". Below that, it says "Previous commands and messages:" followed by "(No previous commands or messages)". A large blue cloud-shaped watermark with the word "Watermarks" in white is overlaid on the screen. Below the watermark, it says "Host name = luna". At the bottom of the terminal, it says "Type command, press Enter." followed by "===>". A "Watermark Options" dialog box is open, showing settings for "Text" type, "Host name = S4HOST", "Orange" color, "Times New Roman" font, "Center" position, and "50%" opacity. The dialog also has fields for "Image location", "Position", "Vertical padding", "Horizontal padding", and "Opacity". The terminal shows a command prompt "MA G" and a list of function keys: "F3=Exit F4=Prompt F9=Retrieve F10=Include detailed messages F11=Display full F12=Cancel F13=Information Assistant F24=More keys". The status bar at the bottom shows "iSolutions Consulting, Inc", "70", and "1/27/2016".

The screenshot shows a terminal window titled "F - 3:LUNA". The main content is a message: "Job 017317/RAY/QPADEV0025 started on 01/26/16 at 11:29:34 in subsystem QINTE Message queue RAY is allocated to another job." Below the message is a portrait of a man with glasses and a beard. A blue cloud-shaped watermark with the word "Watermarks" is overlaid on the right side of the terminal. At the bottom of the terminal, it says "Press Enter to continue." and "F3=Exit F12=Cancel". The status bar at the bottom of the window shows "MA F" and "09/065".

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The screenshot shows a terminal window titled "A - 5:LUNA". A blue cloud-shaped watermark with the word "TABS" is overlaid on the terminal content. A "Tab Setup" dialog box is open on the right, with a red arrow pointing from the "Tab Setup..." option in the "Preferences" menu to the dialog. The "Tab Setup" dialog has several options: "Open new sessions in a new tab" (unchecked), "Always display the tab bar" (unchecked), "Switch to new tab when created" (checked), "Send a warning when closing multiple tabs" (checked), and "Do not start tabbed sessions until the tab is selected" (unchecked). The "New Tab Action" is set to "Run the Same" and "Tab Placement" is set to "Top". The "Preferences" menu is open, showing options like "Appearance", "Popup Keypad", "Toolbar", "Edit...", "Exit...", "Hotspots...", "Keyboard...", "Mouse Wheel...", and "Tab Setup...". The terminal content includes a list of tasks and a copyright notice: "(C) COPYRIGHT IBM CORP. 1980, 2013." The status bar at the bottom shows "MA A" and "20/007".

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New Features/functions

Mouse Wheel (A - 5250 Display)

Enable Mouse Wheel

Settings

Page Up: Page Up

Page Down: Page Down

OK

Mouse Wheel (B - 1:LUNA)

Enable Mouse Wheel

No Keys

Wheel Up: Page Up

Wheel Down: Page Down

Shift

Wheel Up: No Action

Wheel Down: No Action

Control

Wheel Up: No Action

Wheel Down: No Action

OK Cancel Help

The Mouse Wheel parameters, then and now.

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New Features/functions

Keyboard - HOD Session Definition (B - 1:LUNA)

Keyboard File Options

Open...

Key Assignment | Key Repetition

Category: Host Functions

Host Functions	Key
Enter or Reset	
Erase Field	
Erase Input	End (numpad)
Erase Input	Alt+ End
Erase to End of Field	
Field Exit	Enter (numpad)
Field Exit	Ctrl+ Enter
Field Exit + Enter	+ (numpad)
Field Mark	Shift+ Home
Field Mark	Home (numpad)

Assign a Key Unassign Key Custom Functions...

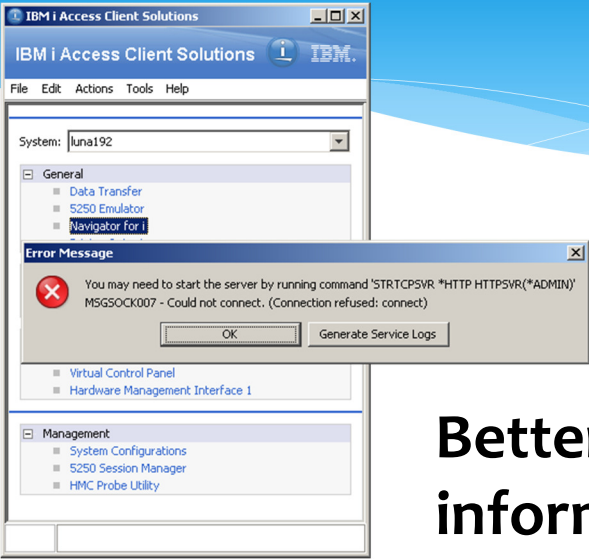
Reset Key Reset All Search for Key

OK Save Save As... Cancel Help

Add FieldExit+Enter as a new keyboard Host Function

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New Features/functions

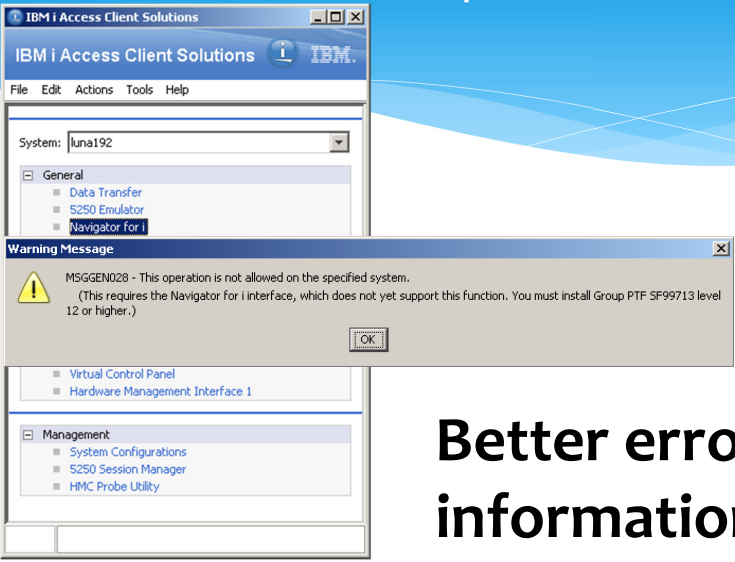


The screenshot shows the IBM i Access Client Solutions application window. The 'System' dropdown is set to 'luna192'. Under the 'General' category, 'Navigator for i' is selected. An 'Error Message' dialog box is displayed in the foreground with a red 'X' icon. The message text reads: 'You may need to start the server by running command 'STRTCPSVR *HTTP HTTPSVR(*ADMIN)' MSGSOCK007 - Could not connect. (Connection refused: connect)'. Below the message are 'OK' and 'Generate Service Logs' buttons.

Better error information

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New Features/functions



The screenshot shows the IBM i Access Client Solutions application window. The 'System' dropdown is set to 'luna192'. Under the 'General' category, 'Navigator for i' is selected. A 'Warning Message' dialog box is displayed in the foreground with a yellow warning triangle icon. The message text reads: 'MSGGEN028 - This operation is not allowed on the specified system. (This requires the Navigator for i interface, which does not yet support this function. You must install Group PTF SF99713 level 12 or higher.)'. Below the message is an 'OK' button.

Better error information

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2. Review deployment options.
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IBM i Access Client



DEMO time:

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Thank you for attending. 😊



THE END

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