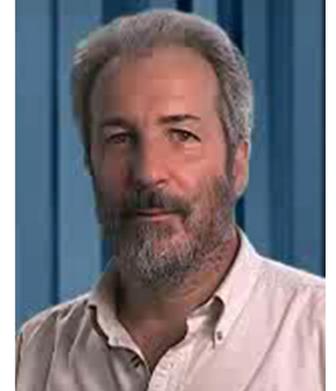


# Run IBM i Access Client Solutions Data Transfer on the IBM i

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# Overview of this session

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The IBM i Access Client Solutions (ACS) product

- What it is

- What it includes

Prerequisites for working with ACS

How to obtain ACS

How to install and run ACS on a workstation

Why run ACS Data Transfer on the IBM i ?

How to install and run ACS Data Transfer on the IBM i

# The IBM i Access Client Solutions product

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## What it is

Java-based offering

Provides 5250 emulation, Data Transfer, Navigator for i

## Why this product is interesting

Because it is Java-based, it can be installed and run on a Windows PC, a Mac, or a Linux workstation

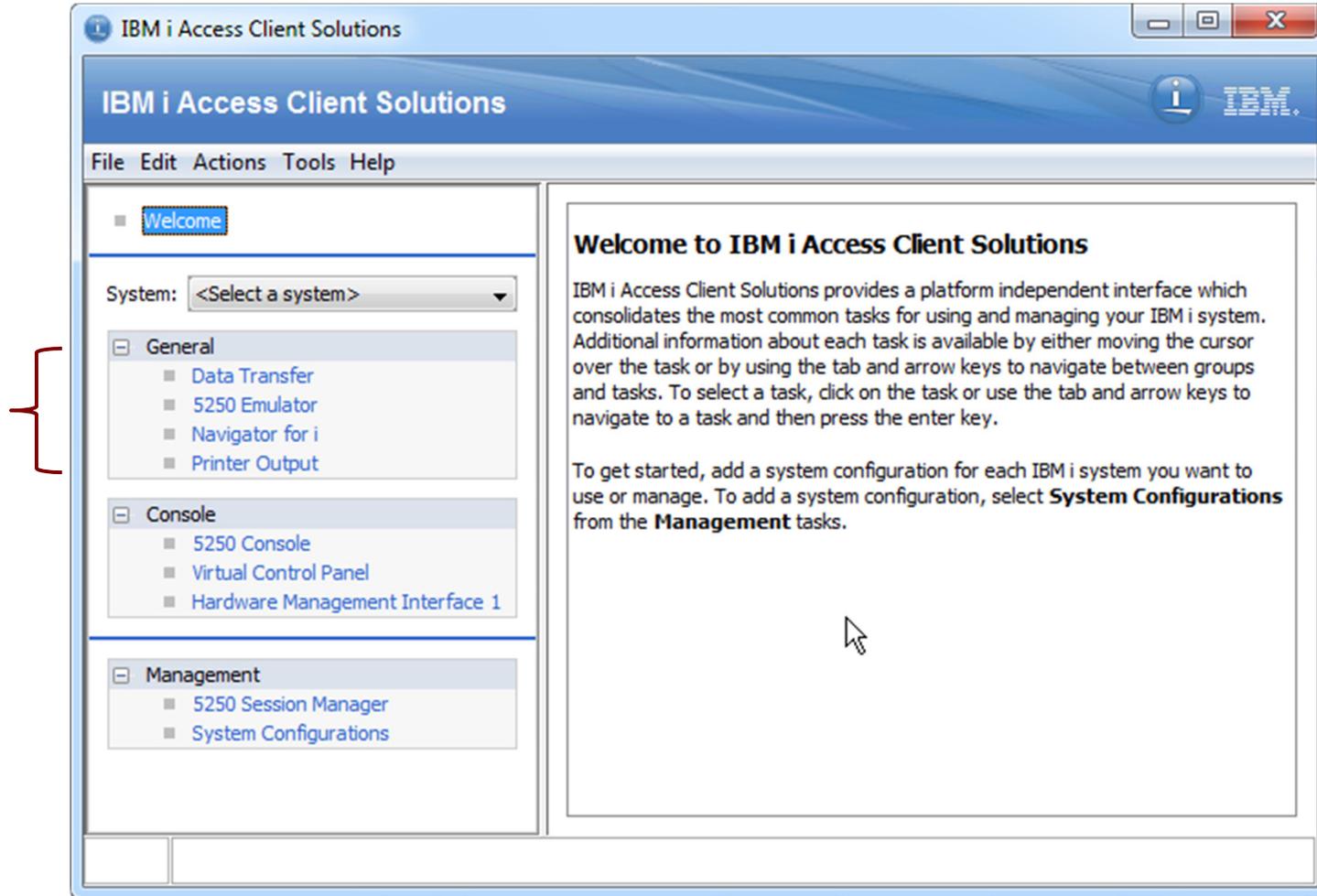
Data Transfer can be run interactively or from a command line

## Why this product is even more interesting

Because it is Java-based, it can be installed and run on an IBM i

Data Transfers can be run on the IBM i

# The IBM i Access Client Solutions console



This console is displayed on a workstation when the ACS program is started.

Run IBM i Access Client Solutions Data Transfer

# Prerequisites for working with ACS

As of late 2012, ACS is an “Early Release” product

It includes a 5250 emulator and Data Transfer

Those two components are the “licensed required” components of IBM i Access for Windows

Java 6 SE (Standard Edition) or higher is required

Workstation: download Java 6 from [www.java.com](http://www.java.com) (an Oracle site)

Java 6 on IBM i is LPP 57xxJV1

Option 11 - Java SE 6 32 bit

Option 12 - Java SE 6 64 bit

Java 6 requires V5R4 or above



Run IBM i Access Client S

Licensed Program	Product Option	Description
5769FN1	1	AFP DBCS Fonts - Japanese
5769FN1	2	AFP DBCS Fonts - Korean
5769FN1	3	AFP DBCS Fonts - Traditional Chinese
5769FN1	4	AFP DBCS Fonts - Simplified Chinese
5769FN1	5	AFP DBCS Fonts - Thai
5770HAS	*BASE	IBM PowerHA for i Standard Edition
5770HAS	1	PowerHA for i Enterprise Edition
5722IP1	*BASE	IBM Infoprint Server for iSeries
5722IP1	1	PS to AFP Transform
5770JS1	*BASE	IBM Advanced Job Scheduler for i
5761JV1	*BASE	IBM Developer Kit for Java
5761JV1	8	J2SE 5.0 32 bit
5761JV1	9	J2SE 5.0 64 bit
5761JV1	11	Java SE 6 32 bit

# How to obtain IBM i Access Client Solutions

IBM i Access for Client Solutions - Windows Internet Explorer

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

File Edit View Favorites Tools Help

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## IBM i Access

Overview Client Solutions Windows Linux Web

Overview Support

IBM i Access Client Solutions is the newest member of the IBM i Access family. A technology preview of this product is now available. 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.

→ [Download the technology preview](#)

→ Updates

Features include:

- 5250 display and printer emulation based on IBM's Host-on-Demand
- Multiple language support for concurrent 5250 emulation sessions on the same client
- Data Transfer similar to IBM i Access for Windows Data Transfer plus support for OpenDocument spreadsheet (\*.ods), Excel Workbook (\*.xlsx), and other file formats
- Data Transfer extension for OpenOffice

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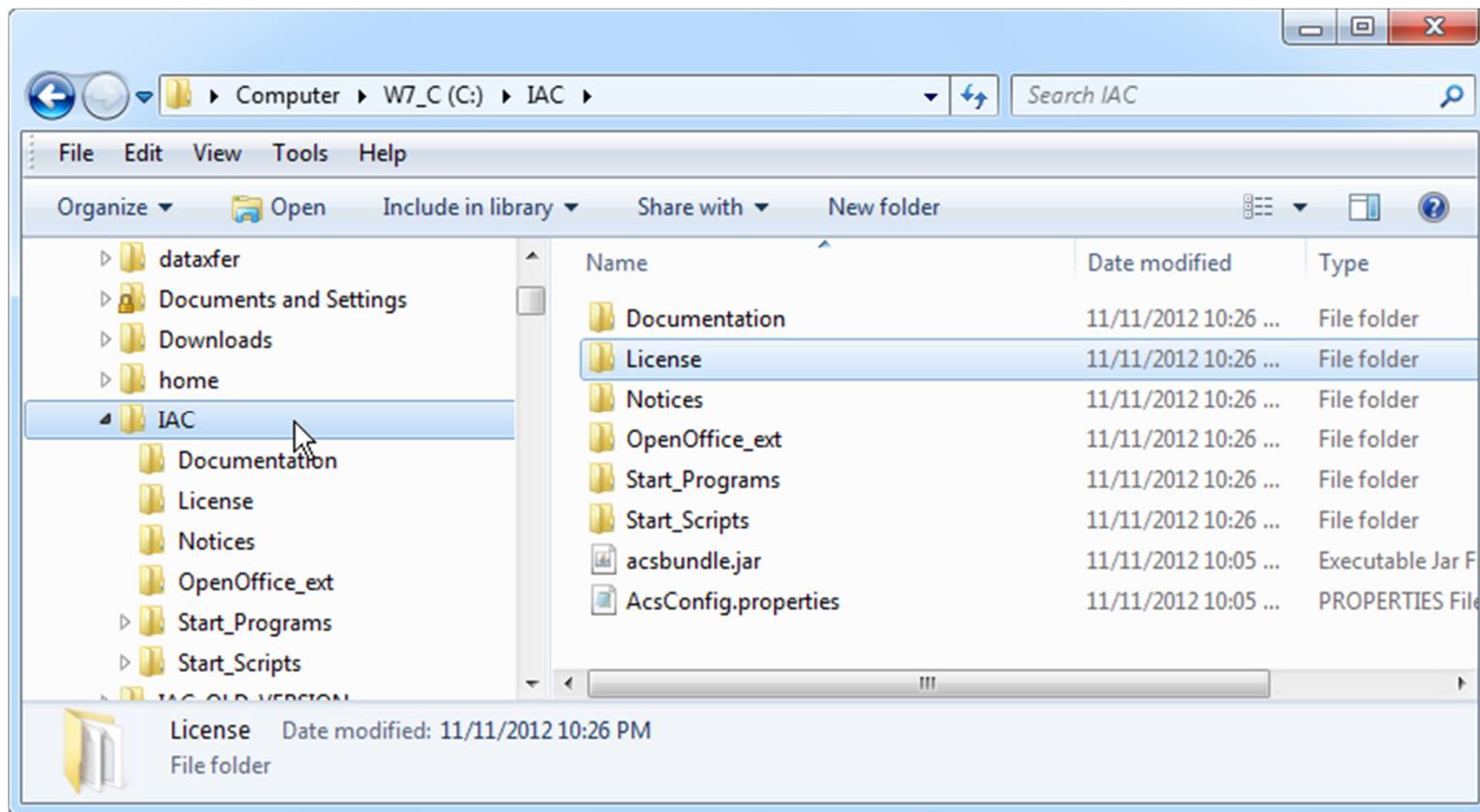
https://www14.software.ibm.com/webapp/iwm/web/preLogin.do?source=swg-ia

Internet | Protected Mode: On 100%

[www-03.ibm.com/systems/power/software/i/access/solutions.html](http://www-03.ibm.com/systems/power/software/i/access/solutions.html)

Run IBM i Access Client Solutions Data Transfer

# How to install ACS on a workstation

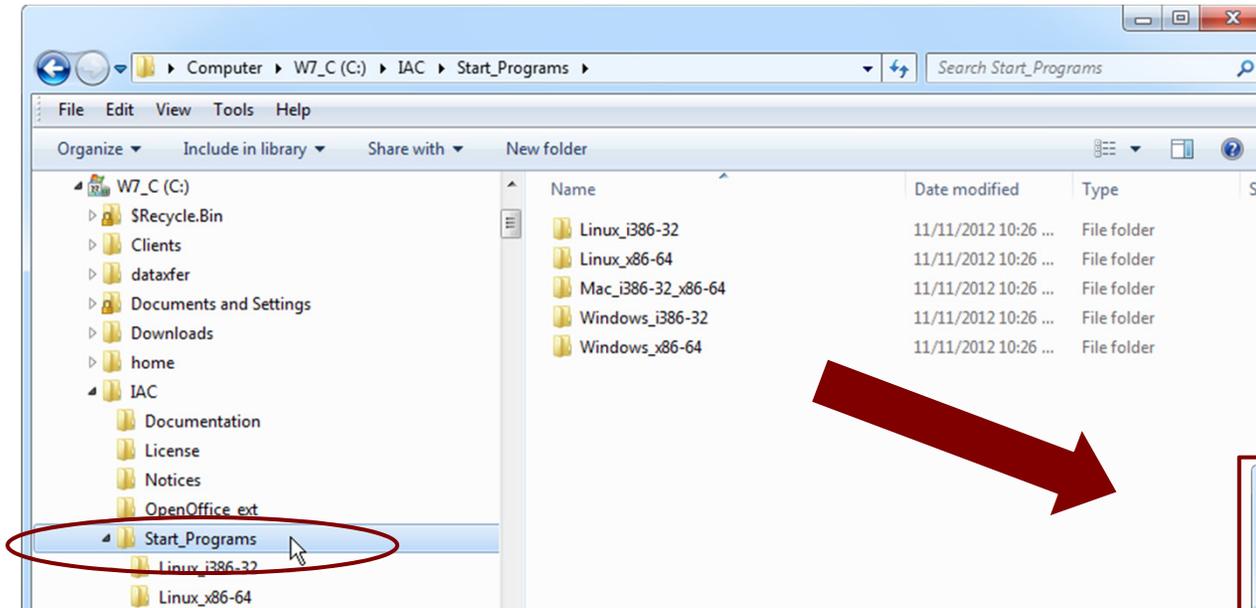


Downloads as a .zip file

Extract all files from zip to a directory (in this example, c:\IAC)

Run IBM i Access Client Solutions Data Transfer

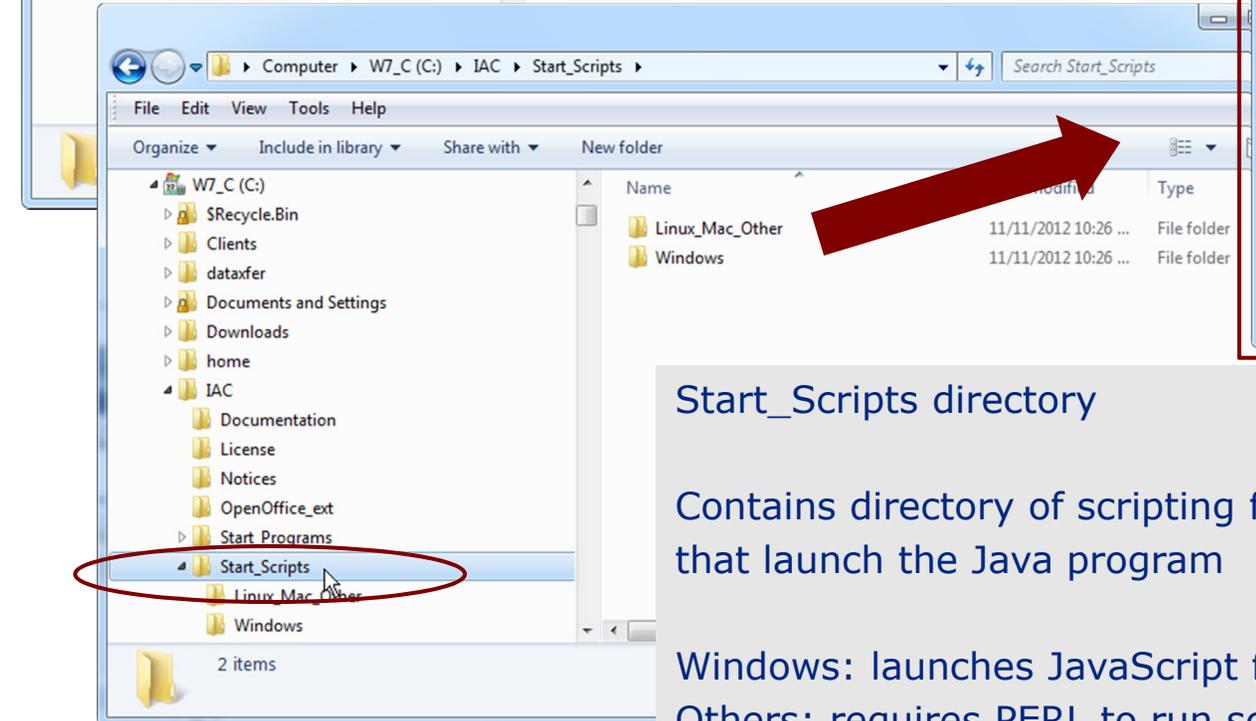
# How to run ACS on a workstation



Start\_Programs directory

Contains directory of executables based on workstation OS

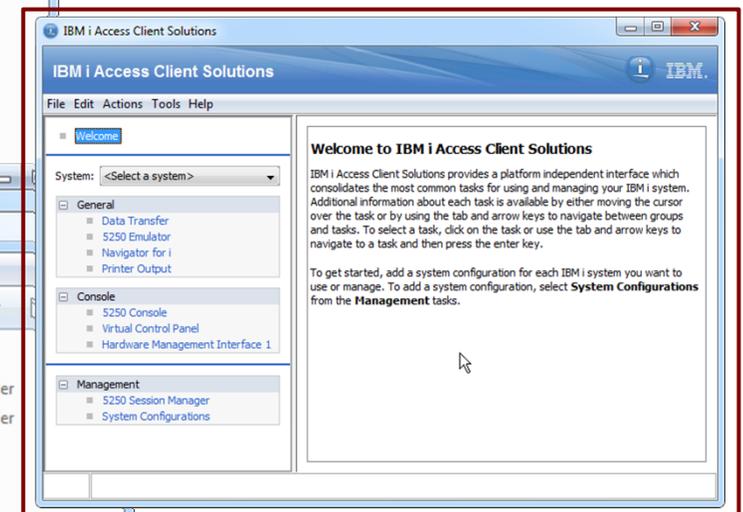
Example: .exe file for Windows



Start\_Scripts directory

Contains directory of scripting files that launch the Java program

Windows: launches JavaScript file  
Others: requires PERL to run script

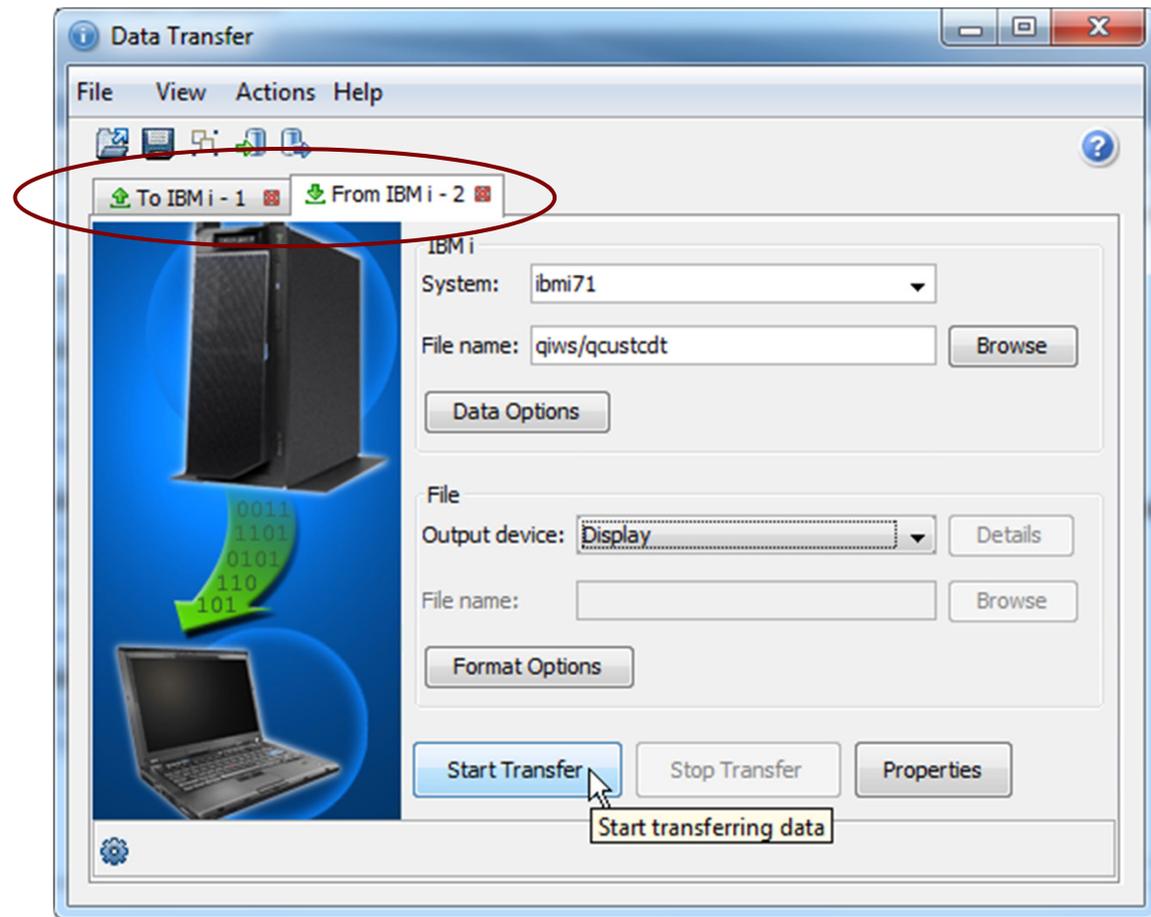


transfer

# Run ACS Data Transfer on a workstation

The Data Transfer interactive program is substantially the same as the IBM i Access for Windows version.

This GUI combines upload/download on the two tabs.



You can run Data Transfer (using a saved transfer request) from a command line:

```
java -jar c:\IAC\acsbundle.jar /PLUGIN=download /file=c:\IACX\qcustcdt.dtfx
```

Run IBM i Access Client Solutions Data Transfer

# Why run ACS Data Transfer on the IBM i ?

Data Transfer is traditionally performed on user PCs

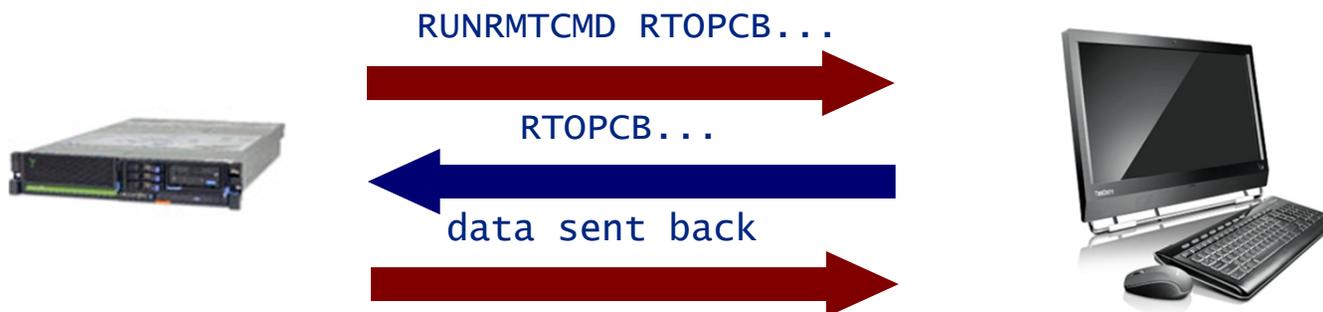
Transfer definitions can be created, saved, run on demand

RTOPBC / RFROMPCB / RXFERPCB

Often, there is a requirement to run a data transfer after a process has completed on the IBM i

Data Transfer can run at a scheduled time on the PC using a PC scheduler

Data Transfer can be invoked from the IBM i using the RUNRMTCMD command



# Why run ACS Data Transfer on the IBM i ?

## New alternative with IBM i Access Client Solutions

Run the Data Transfer on the IBM i

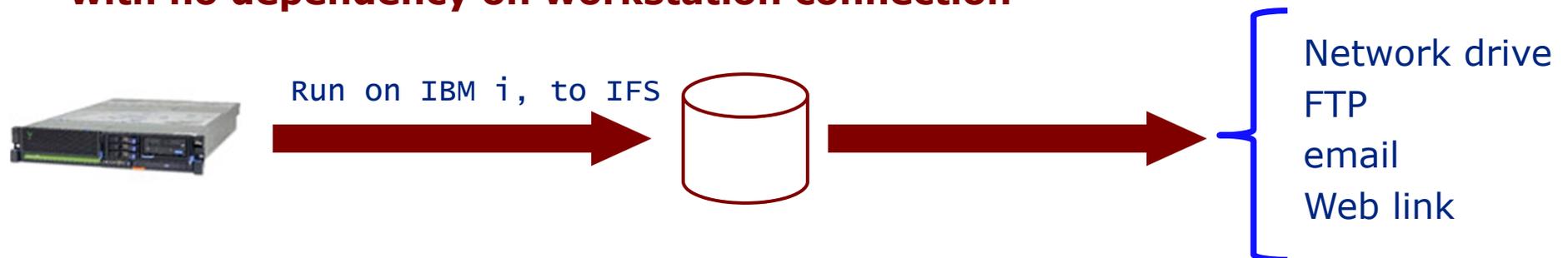
Java-based solution

Can run using the java command line (same commands that work on the workstation)

Can be run from interactive sessions on the IBM i

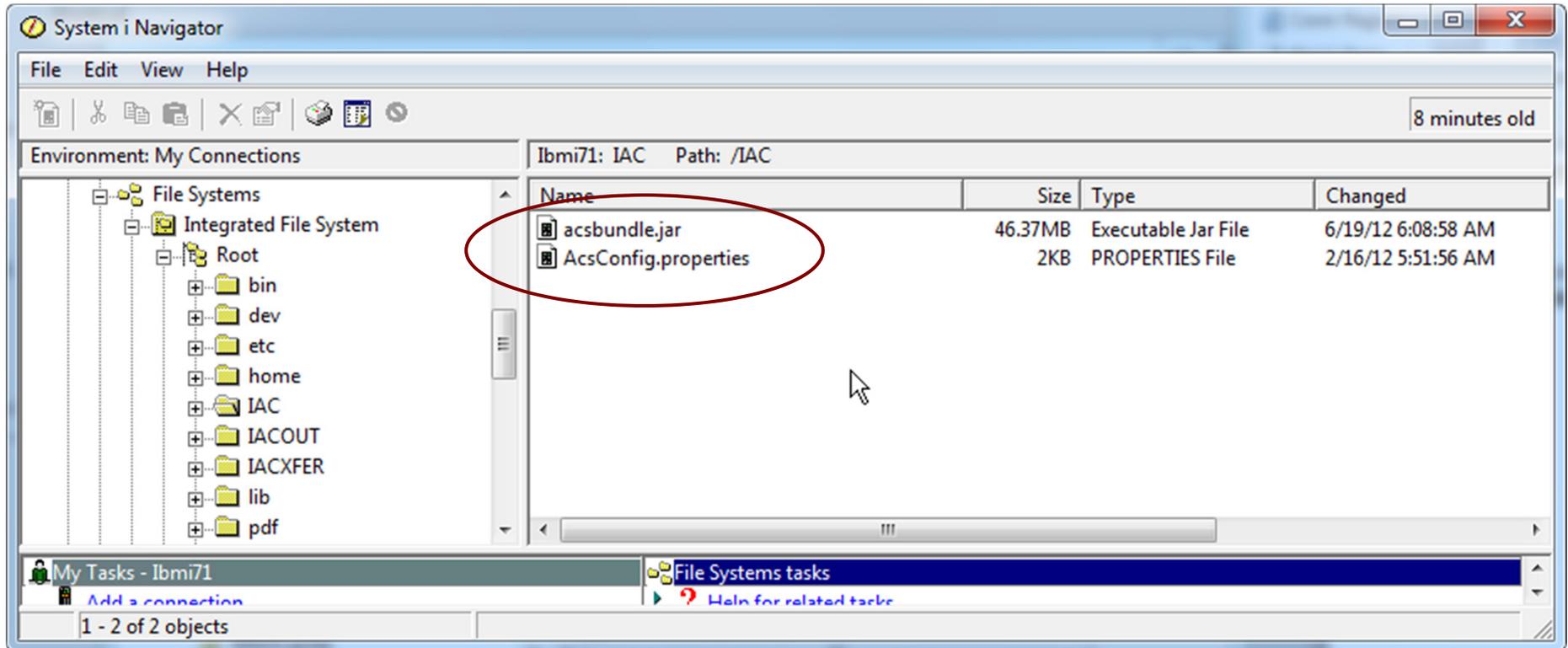
Can be run as batch job on the IBM i

**Allows complete programmability of the data transfer on the IBM i, with no dependency on workstation connection**



Run IBM i Access Client Solutions Data Transfer

# How to install ACS on the IBM i



The two required files are copied from the extracted .zip file on the workstation

Can be copied to any directory in the IFS root file system

# Prepare a saved transfer to run on the IBM i

```
qcustcdt.dtfx - Notepad
File Edit Format View Help
[DataTransferFrom]
DataTransferVersion=1.0
[[HostInfo]
Database=*SYSBAS
HostFile=qiws/qcustcdt
HostName=ibmi71
[ClientInfo]
OutputDevice=2
SaveFDF=1
ClientFile=c:\iacout\qcustcdt.csv
CrtOpt=1
ClientFileType=12
FileEncoding=windows-1252
FDFFile=c:\iacout\qcustcdt.fdfx
[SQL]
Select=*
[Properties]
Convert65535=1
StoreDecFAsChar=1
Notify=1
DisplayLongSchemaNames=1
DisplayLongTableNames=1
DisplayLongColumnNames=1
SQLStmt=0
UserOption=0
UseSSL=
[Option
DateFm
DateSep
TimeFm
Decima
```

```
xqcustcdt.dtfx - Notepad
File Edit Format View Help
[DataTransferFrom]
DataTransferVersion=1.0

[HostInfo]
Database=*SYSBAS
HostFile=qiws/qcustcdt
HostName=ibmi71

[ClientInfo]
OutputDevice=2
SaveFDF=1
ClientFile=/IACOUT/qcustcdt.csv
CrtOpt=1
ClientFileType=12
FileEncoding=windows-1252
FDFFile=/IACXFER/qcustcdt.fdfx

[SQL]
Select=*

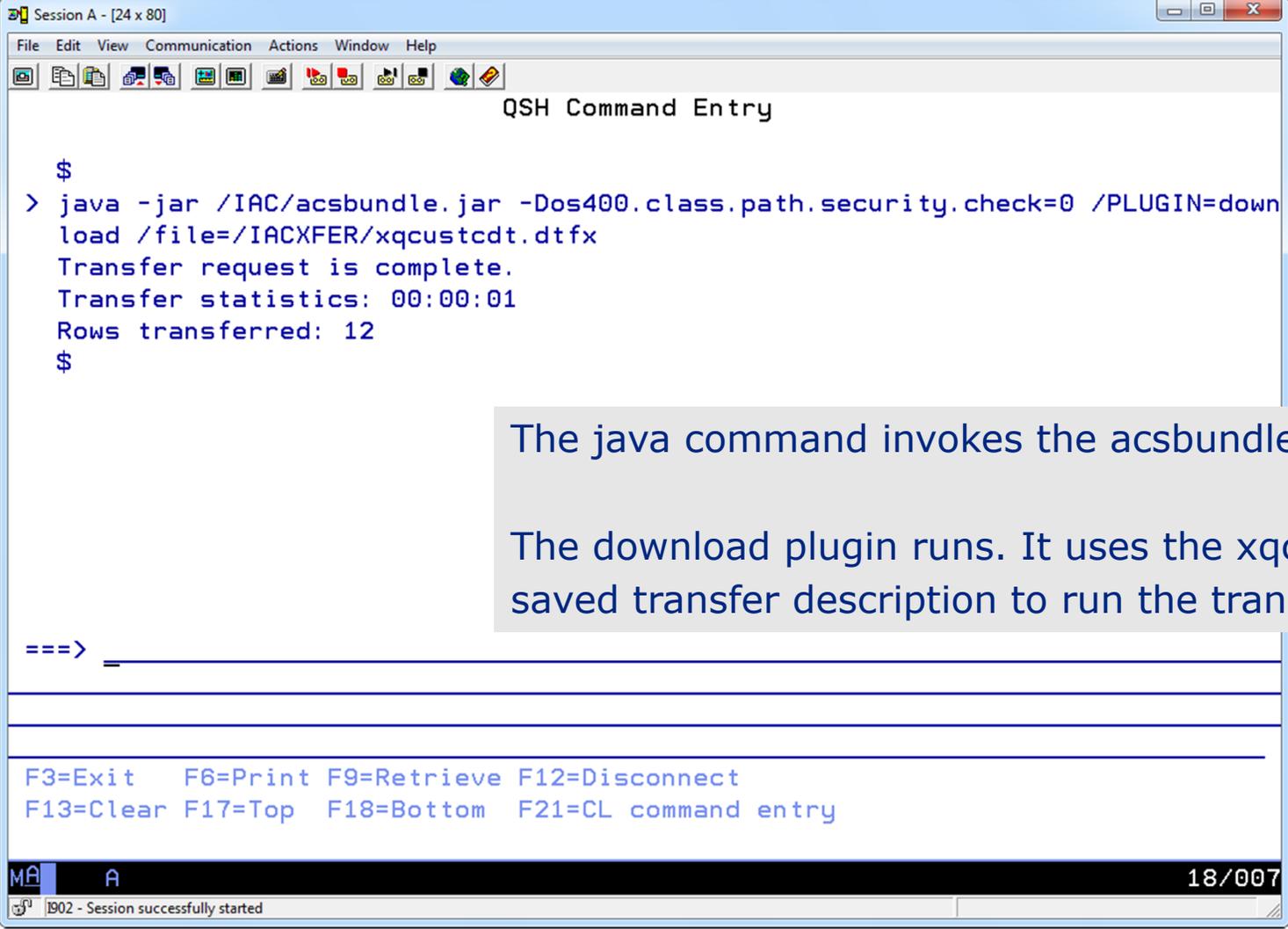
[Properties]
Convert65535=1
StoreDecFAsChar=1
Notify=1
```

The Client File is the output file (for a "transfer from")

The FDFFile is the File Description File. It is used on a file upload ("transfer to") to map the .csv data to the IBM i database file

**Change the directory path from PC style (on the left) to IFS style (on the right)**

# Run an ACS Data Transfer in the QSH environment



```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
QSH Command Entry

$
> java -jar /IAC/acsbundle.jar -Dos400.class.path.security.check=0 /PLUGIN=download /file=/IACXFER/xqcustcdt.dtfx
Transfer request is complete.
Transfer statistics: 00:00:01
Rows transferred: 12
$

===> _____
_____
_____

F3=Exit  F6=Print  F9=Retrieve  F12=Disconnect
F13=Clear F17=Top   F18=Bottom  F21=CL command entry

MA A 18/007
1902 - Session successfully started
```

The java command invokes the acsbundle.jar

The download plugin runs. It uses the xqcustcdt.dtfx saved transfer description to run the transfer.



## Submit ACS transfer request to batch

```
SBMJOB CMD(QSH CMD('java -jar /IAC/acsbundle.jar
                    -Dos400.class.path.security.check=0
                    /PLUGIN=download
                    /file=/IACXFER/xqcustcdt.dtfx)) +
JOB(QSHXFER) +
LOG(4 00 *SECLVL) +
LOGCLPGM(*YES) +
CPYENVVAR(*YES)
```

```
SBMJOB CMD(RUNJVA CLASS('/IAC/acsbundle.jar')
           PARM('/PLUGIN=download'
                '/file=/IACXFER/xqcustcdt.dtfx')
           CHKPATH(*IGNORE)) +
JOB(RUNJVADTXF) +
LOG(4 00 *SECLVL) +
LOGCLPGM(*YES) +
CPYENVVAR(*YES)
```

## The “entire file” download option

```
SBMJOB CMD(QSH CMD('java -jar /IAC/acsbundle.jar
                  -Dos400.class.path.security.check=0
                  /PLUGIN=cldownload
                  /hostfile=QCUSTCDT/QIWS
                  /clientfile=qcustcdt.xlsx)) +
JOB(QSHXFER) +
LOG(4 00 *SECLVL) +
LOGCLPGM(*YES) +
CPYENVVAR(*YES)
```

```
SBMJOB CMD(RUNJVA CLASS('/IAC/acsbundle.jar')
           PARM('/PLUGIN=cldownload'
                '/hostfile=QCUSTCDT/QIWS'
                '/clientfile=qcustcdt.xlsx')
           CHKPATH(*IGNORE)) +
JOB(RUNJVADTXF) +
LOG(4 00 *SECLVL) +
LOGCLPGM(*YES) +
CPYENVVAR(*YES)
```

# Conclusion

---

IBM i Access Client Solutions can be used in a workstation environment

The Data Transfer features (download/upload) can be run directly on the IBM i

Data Transfer definitions (.dtfx, .dttx) files can be created/modified on a workstation, used on the IBM i

Can also use the “download complete file” option

Complete instructions:

<http://www.web400.com/downloads/ACS/RunIBMiAccessClientDataXfers.pdf>

**Questions? Send me an email at:** [craig@web400.com](mailto:craig@web400.com)

Subject line: ACSXFER – (your subject)