



Installation Guide Showcase 9



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About HelpSystems

HelpSystems is a leading provider of systems & network management, business intelligence, and security & compliance software. We help businesses reduce data center costs by improving operational control and delivery of IT services.

Preface

Welcome to the Showcase 9 Installation Guide. This guide provides information about the installation of Showcase 9 software. For information about the administration and maintenance of the product, see the *Showcase 9 Administrator's Guide*.

About This Guide

- **Chapter 1, "Technical Support,"** contains technical support information.
- **Chapter 2, "Release Overview,"** contains Showcase 9 enhancements and release notes.
- **Chapter 3, "Environment Requirements,"** contains hardware and software prerequisites.
- **Chapter 4, "Installing and Uninstalling Server Components,"** covers IBM i software installation.
- **Chapter 5, "Installing and Uninstalling Client Components,"** covers Showcase client installation, including network installations and silent installations.
- **Chapter 6, "Setting Up a Data Source,"** explains how to configure Showcase data sources.
- **Chapter 7, "Connecting to the IBM i,"** explains how to access the server with client components.

Additional Resources

- For information about server maintenance, see the *Showcase 9 Administrator's Guide*.
- For information about IBM Collaboration and Deployment Services, including installation instructions and requirements, see the documentation provided by IBM.
- For information about product features unrelated to installation, see the online help and tutorials in each application.
- For information about upgrading to Showcase 9, see the *Showcase 9 Upgrade Guide*.

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Technical Support

Contacting Technical Support

For general Showcase Information

Help/Systems can be reached by calling 952-933-0609.

For technical support or information

Call our general number 952-933-0609, and ask for technical support.

-or-

Send an Email to showcase@helpsystems.com.

For information on Showcase products, services, and partner programs

Visit the the Showcase home page:

www.helpsystems.com/showcase

To download documentation, software, or the latest program fixes

Go to the Showcase home page:

www.helpsystems.com/showcase

Technical Support Website

Customers who are current on maintenance can apply for a personalized ID for the Help/Systems Technical Support website. If you do not already have an ID, access the Technical Support website at www.helpsystems.com/showcase and apply for an ID. Once you log in to Technical Support, you can access information such as the following:

Troubleshooting. Search Help/FACTS for a resolution and view frequently asked questions.

Documentation. Read technical support policies, browse the technical support newsletters for technical issues, or view and download the latest product documentation.

Supported Platforms. Find supported software versions, release dates, end dates, IBM i and PC operating systems, and web browsers.

Upgrade Info. Order an upgrade and view upgrade information pertinent to each release.

Patches. Download patches for all supported products.

Contact Us. Find the most current technical support phone numbers, e-mail addresses, and fax numbers.

Other Links. Find information about products, training, and upcoming events.

Release Overview

Introduction

Whether standalone or in conjunction with IBM Collaboration and Deployment Services, Showcase 9 provides business analysts with reporting solutions on the IBM® System i, with enterprise-class access to data, data enhancement, and security management.

Showcase includes a variety of new features described in this chapter. Release notes are provided further below.

Documentation

The Showcase 9 documentation set is shown in Table 2-1.

Table 2-1

Showcase 9 documentation set

Documentation	Description
Showcase 9 Release Notes (HTML)	For the latest release notes, see the Release Notes file on the Help/Systems Technical Support website at www.helpsystems.com/showcase (login required).
Showcase 9 Installation Guide (PDF)	Release overview, environment requirements, IBM® i settings, virtualized environments, installing server components, installing client components, installing add-ins, configuring data sources, and troubleshooting.
Showcase 9 Administrator's Guide (PDF)	Starting and stopping the server, managing and optimizing performance, planning security, managing data, managing test and production environments, managing IBM i passwords, server maintenance, Report Services, IBM i commands, sample database information, and troubleshooting.
Showcase 9 Upgrade Guide (PDF)	Common upgrade questions, preparing for an upgrade, recommended upgrade sequence, supported upgrade paths, migration requirements, establishing a test environment, uninstalling previous versions, and migrating add-ins.
Online help	Extensive online help for Showcase Report Writer, Showcase Query, Showcase Warehouse Builder, and Showcase Warehouse Manager Client applications.

Release Enhancements

Integration with IBM Collaboration and Deployment Services 4.2, 4.2.1 and 5.0

Showcase 9 interoperates with IBM Collaboration and Deployment Services to deliver enterprise-class reporting solutions. You can save queries, reports, and other files to the IBM Collaboration and Deployment Services Repository, take advantage of the rich features in IBM Collaboration and Deployment Services Deployment Manager, and share information and run dynamic reports via the web-based IBM Collaboration and Deployment Services Deployment Portal. IBM Collaboration and Deployment Services provides broad content management capabilities, including versioning and custom metadata, drag-and-drop publishing, flexible control over scheduled jobs, improved notification and subscription services, customizable roles and actions, and interoperability with IBM® SPSS® Statistics, IBM® SPSS® Modeler, SAS, Business Intelligence and Reporting Tools (BIRT), and other IBM Collaboration and Deployment Services operations.

Job Step Control of Individual Showcase Warehouse Builder Definitions

IBM Collaboration and Deployment Services users can now control individual Showcase Warehouse Builder definitions within job steps without breaking up their existing Warehouse Builder sets. Administrator or analysts can select individual Warehouse Builder definitions within a Warehouse Builder set at the job-step level and use existing IBM Collaboration and Deployment Services functionality to conditionally control the flow, set notifications, and so on. For more information, see Chapter 4 in the *Showcase 9 Administrator's Guide*.

Support for Microsoft Windows Server 2008 and Microsoft SQL Server 2008

Showcase supports a subset of the environments supported by IBM Collaboration and Deployment Services. Showcase 9 adds new support for IBM Collaboration and Deployment Services installations on Microsoft® Windows Server® 2008 (32-bit and 64-bit) with Microsoft® SQL Server® 2008 data sources (on a Windows OS). With Showcase 9, Enterprise Server can also be deployed to Windows Server 2008R2.

Support for up to 1 MB of SQL (Previously 64 KB)

Showcase 9 users can now create and execute SQL statements up to 1 MB in size. Showcase Query users can submit up to 1 MB of SQL as single run or batch jobs, and Showcase Report Writer and Showcase Warehouse Builder client users can create reports or definitions with up to 1 MB of SQL.

Prior to this release, SQL statements were limited to 64 KB, requiring some users to split queries into smaller queries, increasing the complexity of the process and the opportunity for error. Now business analysts can utilize the tools as they normally do and rarely encounter an issue with SQL size. Instead of spending extra time to circumvent the limit, analysts can contain the entire data extraction logic within a single SQL statement.

Note: *SQL statements up to 1 MB take longer to parse and process, and the overall performance of Showcase 9 can be impacted while processing. Some third-party components may not support 1 MB of SQL and other limitations apply. SQL statement elements should be entered within the given limits, or you may receive an "Error message unknown" message. The maximum number of SQL statement elements allowed in SQL statements are shown in Table 2-2:*

Table 2-2
SQL limits

SQL element	Maximum allowed
SELECT	4095
FROM	4095
WHERE	4092-4093
HAVING	4092
ORDER BY	4095

Running Showcase Enterprise Server as a Windows Service

Showcase Enterprise Server runs as a Microsoft Windows service program in Showcase 9, allowing the server to start automatically without user interaction. Previously, reporting jobs could be delayed indefinitely (for example, after a reboot) until a PC user with account access started the server manually. As a Windows service program, Enterprise Server is set (by default) to start automatically when the system starts. From the Properties dialog box, the startup type (Automatic, Manual, or Disabled) can be set to your preference, and the service can be manually stopped, restarted, paused, resumed, and disabled. To configure Enterprise Server service settings, choose **Start\ Control Panel\Administrative Tools\Services** and then double-click Showcase Enterprise Server.

Enterprise Server can still be started by choosing **[All] Programs\ IBM \ShowCase 9\ShowCase Enterprise Server** from the Windows Start menu. For more information about starting and stopping Enterprise Server, see Chapter 2 in the *Showcase 9 Administrator's Guide*.

Improved Firewall Support

An increased focus on security is driving more organizations to use firewalls. Showcase 9 administrators can now configure a firewall port, compressed data firewall port, and the RMI host name for Showcase Warehouse Manager Servers using the ADDSCTCP command.

Previously, administrators could configure the firewall settings by modifying showcase.cfg under the direction of a support representative. Administrators can now configure firewall settings at installation or with ADDSCTCP and RMVSCTCP after installation. The firewall settings can be validated by viewing the service table entries with WRKSRVTBLE. For more information about configuring firewalls, see Chapter 5 in the Showcase 9 Administrator's Guide.

Note: To ensure backward compatibility, firewall settings in the configuration file (showcase.cfg) are still supported. However, the settings in the configuration file are given lesser priority than those set at installation or with the ADDSCTCP command.

Custom Metadata

Showcase 9 users can now view and update custom properties on repository objects (.dbq/.rpt) using Showcase Query, Showcase Report Writer, or the Microsoft Excel add-in without accessing IBM Collaboration and Deployment Services Deployment Manager and/or asking an administrator to enter such data. The user can view and update publishing properties such as Description, Keywords, and Expiration Date, and these properties are compatible (version for version) with properties set directly in IBM Collaboration and Deployment Services.

Configurable Showcase Query and Showcase Report Writer Timeouts

Showcase 9 administrators can optionally set a session timeout value in Showcase Warehouse Manager Client so Showcase Query, Showcase Report Writer, and Excel\Lotus add-in users are automatically disconnected when their session is inactive for the specified time period (30-minute minimum).

The timeout value can be set at a global, group, or individual user level. When the timeout limit is reached, the clients are disconnected from the data source(s), a timeout message appears, and users are prompted to save unsaved data. Administrators can set a different timeout value for each data source. When multiple data sources are connected, the smallest timeout value of the connected data sources is used. For more information on setting timeout limits, see Chapter 3 in the Showcase 9 Administrator's Guide.

***Note:** When reports and queries run against the server, the client sessions are considered active until execution completes. Timeouts will not occur during this period of execution.*

Standardized LOG4J Logging

Showcase 9 switches to standardized Apache LOG4J logging, which supports rollover logging among other features. Previously, the server logs could expand without limit, hampering the ability of users to manage the files and troubleshoot problems. In Showcase 9, logging properties are set in the `showcase.cfg` configuration file at `/<SCSERVER>/ProdData/config`, where `SCSERVER` is the name of the Showcase Warehouse Manager Server installation library. Administrators can specify a maximum log file size (for example, `showcasecorp.traceMaxFileSize=200MB`) and when the limitation is reached, a new log file is created and logging continues in the new file. Administrators can also enable a rollover date option (for example, `showcasecorp.traceRolloverType=DATE`), and each log file will roll over to a new file once the system date changes to the next day. In general, performance decreases when logging of any type is enabled. However, the new rollover logging feature will not cause performance to degrade significantly. For more information, see Chapter 5 in the Showcase 9 Administrator's Guide.

Showcase Warehouse Manager Server Patch Rollbacks

With Showcase 9, administrators can run the `RMVSCPTF` command to roll back (unapply) the most recent Showcase Warehouse Manager Server patches. This command contains no parameters, but the server should be stopped prior to executing the command. Patches are rolled back to the prior patch level; the command restores the versions of all objects that existed before the latest patch was applied and removes all objects that did not exist prior to the latest patch. The command can roll back only one patch at a time but can be run in succession to roll back to the installation release level.

***Note:** The patch rollbacks rely on updated patch information in `SCPTFHST` (SQL table) and the availability of the backup save files and user space (created when patches are applied) in the Warehouse Manager Server installation library. If any of these is not found when the patch rollback is run, the rollback will not continue. To identify the difference between an original unaltered Warehouse Manager Server 9.0 installation from one in which patches were installed and subsequently removed, check the `SCPTFLOG` journal. If there are no records of patches being applied, then it is the original installation.*

IT Infrastructure Enhancements

New Client Environments

Showcase 9 client applications can be installed on the following Microsoft Windows operating systems:

- Windows 7 Enterprise (32-bit or 64-bit)
- Windows 7 Professional (32-bit or 64-bit)
- Windows Vista Business (32-bit or 64-bit)

- Windows Vista Ultimate (32-bit or 64-bit)
- Windows XP Professional (32-bit or 64-bit)

Note: The latest service packs from Microsoft should be installed for Windows operating systems.

Support for IBM Technology for Java (JVM)

Showcase 9 exploits the full advantages of IBM® i's high-performance JVM called *IBM Technology for Java™*. The 32-bit version is available for V5R4 users and the 64-bit version for IBM i 6.1 users. IBM Technology for Java Virtual Machine replaces the IBM Classic Java Virtual Machine, which had known scalability and performance issues.

JD Edwards (JDE) Enhancements

Showcase continues to support Oracle JD Edwards database releases for those customers who utilize JDE data sources in their application environment. Showcase 9 supports JDE World A9.2, World A9.3, and EnterpriseOne ERP 9.0, 9.1, and 9.2. For more information, see the topic JD Edwards (JDE) Requirements in Chapter 3 on page 11.

Other Non-DB2 Data Sources

Showcase 9 also supports these non-DB2 data sources:

- Microsoft Access® 2003 and 2007
- Microsoft Excel 2003 and 2007
- Microsoft SQL Server 2005 and 2008
- Lotus® Domino 8.5
- Oracle 10g and 11g

Support for Virtualized Environments

Showcase 9 client applications can be deployed in virtualized environments such that the business analysts and report consumers can perform all of the same tasks as though the software were actually installed on their desktop machines.

Virtualized Showcase Client Environments

Showcase client applications can be deployed in these virtualized client environments.

- Citrix 4.5
- XenApp 5.0, 6.0 and 6.5

Virtualized Showcase Enterprise Server Environments

Showcase Enterprise Server can be deployed in these virtualized server environments:

- VMWare ESX Server 3.0 and 3.5

Support for Silent Installations

Showcase 9 client applications can be installed in silent mode. In silent mode, the installation process runs without a user interface and without user intervention. A silent installation can deploy Showcase client applications to many users and ensure that the same software is installed on each PC. When running an installation in silent mode, no messages are displayed for the end user. Instead, a log file

captures installation information, including whether the installation was successful. For more information, see the topic Silent Installation in Chapter 5 on page 31.

Product Renaming

This release marks the renaming of Showcase Suite. Showcase 9 supports interoperability with IBM Collaboration and Deployment Services 4.2.

Table 2-3

New product names

Old name	New name	General usage
Showcase Suite	Showcase	Showcase
Showcase Query	Showcase Query	Query
Showcase Report Writer	Showcase Report Writer	Report Writer
Showcase Warehouse Builder	Showcase Warehouse Builder	Warehouse Builder
Showcase Warehouse Manager Client	Showcase Warehouse Manager Client	Warehouse Manager Client
Showcase Warehouse Manager Server	Showcase Warehouse Manager Server	Warehouse Manager Server
Showcase iSeries Driver	Showcase IBM i Driver	Showcase IBM i Driver
PASW Collaboration and Deployment Services (formerly Predictive Enterprise Services)	IBM Collaboration and Deployment Services	IBM Collaboration and Deployment Services

Release Notes

For any additional, late-breaking 9.x information, see the Help/Systems Technical Support page at www.helpsystems.com/showcase.

Known Issues

- Microsoft Windows operating system users may encounter a Windows Security Alert when starting Showcase Enterprise Server for the first time. Select Unblock for the server to work properly.
- Showcase queries (.dbq) and reports (.rpt) run through Enterprise Server will fail to output to PDF with Enterprise Server running as a Windows service program on Windows Vista (64-bit) or Windows 7 (64-bit) operating systems. [ECM00144215]
- Showcase jobs executed through Enterprise Server (running as a Windows service program) will fail if the results are saved to a mapped network drive. The same job can be run successfully through Enterprise Server Console or by using UNC syntax (instead of a mapped drive) for the saved results. For more information, see <http://support.microsoft.com/kb/180362/EN-US/>. [ECM00144304]
- Showcase Query SQL queries (.dbq) of up to 1 MB with a JDE EnterpriseOne data source can fail from IBM Collaboration and Deployment Services Deployment Portal. The report execution fails while saving the report output to the repository. To resolve this issue, increase the thread pool size of WebContainer to 200 and increase the minimum heap size to 1024 MB. After making these configuration changes, the same report should run without error. [ECM00135225]
- Showcase Suite 8.0 objects and Predictive Enterprise Services 3.0 objects restored into a PASW Collaboration and Deployment Services 4.0 repository replace the entire contents of the target repository. Existing objects are not preserved.

For example, if the command `RSTSRVRINF` is issued on a Showcase 9 server to restore Showcase Suite 8.0 and PES 3.0 files into a repository that already contains objects, the Showcase and PES objects are restored to the 4.0 repository, but the existing objects in the target repository are deleted. [ECM00135589]

- A "SQL System error" message may appear while executing 1 MB of SQL through Query. After the server connection is established, the "SQL System error" message may appear if the DB2 SQE lacks sufficient memory. You may need to contact IBM support to estimate the amount of memory (Main/DASD) required to run the 1 MB SQL successfully. [ECM00127964]
- Showcase Report Writer now supports 128-character column alias names. Previously, Report Writer supported only 101 characters in a column alias name, while Query supported 128 characters. The 128-character maximum now applies to both Report Writer and Query. [ECM00128837]
- If you execute a run job with 1 MB of SQL (.dbq) through Enterprise Server, it may fail if the memory resources are not sufficient. For example, you may have defined a data source, Enterprise Server, and credentials in the Resource Definition of IBM Collaboration and Deployment Services Deployment Manager. You've created and saved a new job with a .dbq having 1 MB of SQL in it. You run the job through Enterprise Server and after some time, the job fails with an "OutOfMemory" error. This error occurs because Query does not have sufficient memory to process the output data. The problem can be resolved by installing Showcase Enterprise Server on a system with at least 2 GB of RAM and by setting heap size of the IBM Collaboration and Deployment Services server to 2 GB. Note: The same job could be run successfully through Report Services. [ECM00131452]
- SQL statements of 1 MB may not execute successfully on IBM® i's V5R4 (with 32-bit JVM) if the number of unions in the SQL exceeds the DB2 driver limits. Refer to the IBM i DB2 SQL documentation for limits. [ECM00126684]
- SQL statements of 1 MB with JDE World may not execute successfully. If you receive a "Null Pointer Exception" in Query connecting to a JDE World data source, you can resolve this issue by increasing the maxMemory for the Query client from 96 MB to 256 MB.

To increase the maxMemory for the Query client, open the Windows Registry Editor (Start > Run > `regedit` > OK). Search for the maxMemory entry on the path `HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBCINST.INI\Showcase IBM i Driver`. Change the maxMemory value from 96 to 256. SQL batch jobs should now run successfully, even if you still receive a "Null Pointer Exception" error. [ECM00129852]

- If you are using Lotus Domino 8.5 as a data source with Showcase Warehouse Builder definitions, you may encounter problems while running the sets. If the data source is defined as system DSN, the Lotus driver may not find the specific Domino server in the data source mapping. This is an intermittent issue with the Lotus Notes SQL Driver occurring when DSN is defined as system DSN. The workaround is to use the Enterprise Server as a console and define the data source as a user DSN instead of system DSN. [ECM00137253]
- Warehouse Builder definitions specifying an Oracle 11g data source may fail. If you receive the "JDBC driver oracle.jdbc.driver.OracleDriver not found" error message after saving and running the definition, replace `<install_dir>\lib\MForacle.jar` with `ojdbc14.jar`, and the definition should run successfully. [ECM00127283]
- Showcase clients connecting with Oracle 11g data sources may not be able to select database links. If you are logged into the Oracle data source and receive the "[Oracle][odbc] Driver not capable" error while selecting database links, you have encountered an Oracle 11g driver limitation (sqora32.dll). Database links can still be retrieved with SQL against the `ALL_DB_LINKS`

table, but some users may have not access to ALL_DB_LINKS and the retrieved database links do not include the owner and tables list. The Oracle SQL syntax requires the database link to be specified in the FROM clause after the table name with the @ character. For example:

SELECT col FROM table@<DATABASE_LINK>

Query does not support the @<DATABASE_LINK> syntax. This is a limitation of the software. [ECM00127189]

- While running an iterating job (producer-consumer) with two Query files (.dbq) that contain 1 MB of SQL each, the IBM Collaboration and Deployment Services job may hang and then fail with a "Resource has been deleted" error. The issue is with the Apache Axis third-party code used by the WebSphere application server. To run the job successfully, either increase the memory resources available for the job or apply the Apache Axis patch available here: <https://issues.apache.org/jira/browse/AXIS-2574>. [ECM00134593]
- The sample queries and reports, optionally installed and used in the Query and Report Writer tutorials, are designed to be opened and run against the Microsoft Access database SCSSample90.mdb (also optionally installed). If the sample queries and reports are opened and run against an IBM i data source, change links and variable data type updates may be required.
- Showcase client products use Microsoft WinHelp (.hlp) help systems, which require WinHlp32.exe. Customers using the Windows Vista or Windows 7 operating systems must download and install WinHlp32.exe to be able to open the .hlp help files, including those in the Showcase client help systems. WinHlp32.exe is available on the Microsoft Download Center. See Microsoft online support article 917607 at <http://support.microsoft.com/kb/917607> for complete details and instructions. [ECM00138929]

Environment Requirements

This chapter describes environment requirements for Showcase installation and setup. If your system fails to meet the hardware and software requirements described in this chapter, Showcase may not function properly.

Showcase 9 can be used with IBM Collaboration and Deployment Services. For IBM Collaboration and Deployment Services requirements, see the IBM Collaboration and Deployment Services documentation.

IBM i Requirements

Disk Space

Table 3-1
Disk space required for server installation

Component	Space required
Server	300 MB
Temporary space	300 MB (After installation, this space is freed when the installer signs off.)

Back Up Existing Libraries

You can install the server into a new 9.x library or install over an existing 8.0 or 9.0 library. Installing 9.x over a pre-9.x library is not supported. Always back up your server library before installation. For instructions, see Chapter 5 in the *Showcase 9 Administrator's Guide*.

Configure and Start TCP/IP

Before installing the servers, configure and start IBM® i TCP/IP. Someone trained in TCP/IP network administration should ensure the proper setup, use, and maintenance of TCP/IP. For more information on configuring TCP/IP, see Chapter 5 in the *Showcase 9 Administrator's Guide*, along with your IBM i documentation.

JD Edwards (JDE) Requirements

Showcase 9 supports JD Edwards World A9.2, World A9.3, and EnterpriseOne ERP 9.0, 9.1, and 9.2. Showcase 9 provides user profile, data dictionary, and cost center security support for these World software versions. Because of internal changes to the World software database structure, user-developed queries or other Showcase applications may not be interchangeable across World software release boundaries. See your JDE documentation for changes to World software database structures.

The SETJDEOWA command configures the server on the IBM® i for OneWorld integration. The command also allows Showcase to recognize environment information for OneWorld users who do not have an IBM i user profile. For instructions, see Chapter 4 in the *Showcase 9 Administrator's Guide*.

Server Requirements

The server installation requires IBM® i 7.3, 7.2, or 7.1 with the following Licensed Program Products (LPPs) installed:

Table 3-2
Licensed Program Products (LPPs)

Description	IBM i 7.3	IBM i 7.2	IBM i 7.1
IBM Toolbox for Java	N/A	N/A	N/A
IBM Developer Kit for Java	5770JV1 *BASE	5770JV1 *BASE	5761JV1 *BASE
Java SE 6 (32-bit)	5770JV1 option 14	5770JV1 option 11	5761JV1 option 11
Java SE 6 (64-bit)	5770JV1 option 15	5770JV1 option 12	5761JV1 option 12
Extended Base Directory Support	5770SS1 option 3	5770SS1 option 3	5770SS1 option 3
QShell Interpreter	5770SS1 option 30	5770SS1 option 30	5770SS1 option 30
Portable App Solutions Environment (PASE)	5770SS1 option 33	5770SS1 option 33	5770SS1 option 33

Note: To verify PASE is installed, type `GO LICPGM`, choose option 10 and look for the entry Portable App Solutions Environment. If you do not have PASE installed, install it using your IBM i SS1 installation media.

The server installation also requires the latest **Java Group**, **DB2 Group**, **Cumulative Package**, and **HIPER Group** PTFs be applied. (WRKPTFGRP Group Status value MUST be installed)

Group	IBM i 7.3	IBM i 7.2	IBM i 7.1
Java Group PTF	SF99725	SF99716	SF99572
DB2 Group PTF	SF99703	SF99702	SF99701
CUM Package	SF99730	SF99720	SF99710
HIPER Group PTF	SF99729	SF99719	SF99709

Note: The system value `QALWOBJRST` must be set to `*ALL` or `*ALWPGMADP`. You can display the value with the `DSPSYSVAL QALWOBJRST` command.

Server Installation Tips

- Install the server into an existing 9.x server library or into a new library. Do not install it into a pre-9.0 user library.
- Make sure the libraries `QSYS` and `QSYS2` are at the top of the system portion of your interactive session library list before you install the software. Issue the `DSPLIBL` command to view your existing library list. If `QSYS` and `QSYS2` aren't the first and second libraries listed, press F3 to exit the display and issue the following command for each library listed above `QSYS`:

CHGSYSLIBL LIB(XXXXX) *REMOVE
(where XXXXX is a library above QSYS)

This affects only the interactive session used, and does not change system values or job descriptions. Once the session is logged off, the library list will be reset.

- Configure and start IBM® i TCP/IP before you enable Showcase TCP/IP. You do not have to enable Showcase TCP/IP support at installation time. You can enable it later using the CHGSCSVRA command.
- Remember the IP address of your IBM i and the port number assigned to each library. You and your users need this information to complete data source setup.
- If you will be using IBM Collaboration and Deployment Services Deployment Portal for browser-based reporting, remember your Application Server port number for use in the browser (<http://hostname:port/peb>).
- The default setting for the QALWUSRDMN system value is *ALL. If this setting is unacceptable for your environment, before you install the server specify the following libraries for QALWUSRDMN: QSYS, QRPLOBJ, QTEMP, and the server library (default SCSEVER). These libraries help the server to install correctly and help to prevent unpredictable results when you run client applications. To work with system values, use the IBM i command WRKSYSVAL and choose option 2 to change QALWUSRDMN.

Additional Considerations

- The server sets *PUBLIC Exclude as the default authority to Showcase Warehouse Manager Client and Showcase Warehouse Builder. A profile with *ALLOBJ authority can use Warehouse Manager Client to authorize other users to access Warehouse Manager Client or Warehouse Builder.
- The user profile QUSER should have the Maximum Allowed Storage (MAXSTG) parameter set to the default *NOMAX. Otherwise, you may have difficulty connecting through TCP/IP and running large queries in batch.

Client PC Software and Hardware Requirements

The following table lists PC requirements for Showcase software applications. For all types of client installations, you must have administrative authority to your PC to install Showcase. For more information, see your Microsoft Windows documentation.

Table 3-3

PC requirements

Component	Requirement
Operating system	<p>One of the following Microsoft Windows operating systems:</p> <ul style="list-style-type: none"> • Microsoft Windows 10 (32- or 64-bit) • Microsoft Windows 8 (32- or 64-bit) • Microsoft Windows 7 Professional or Enterprise edition (32- or 64-bit) • Microsoft Windows Vista Business or Ultimate edition (32-or 64-bit) • Microsoft Windows XP Professional (32- or 64-bit) • Microsoft Windows Server 2008R2 <p>Note: You should also install the latest service packs for Windows operating systems.</p>
Web browser	Internet Explorer 7 or 8 or Mozilla Firefox 2.x or 3.x.
Microprocessor	x86 processor, 1.8 GHz or the minimum required by your operating system.

Component	Requirement
RAM	At least 512 MB of RAM (recommended 1GB) more than the minimum required by your operating system. Additional RAM (1 GB) is recommended to run concurrent reports on the Enterprise Server.
Hard disk space	<p>200 MB or greater available hard disk space for the following applications (space needed will vary depending on components selected):</p> <ul style="list-style-type: none"> • Showcase Warehouse Manager Client • Showcase Warehouse Builder • Showcase Report Writer (including IBM® Showcase® Query) • Query add-in for Excel • Query add-in for Lotus „Enterprise Server“ • Sample files <p>Showcase requires Microsoft components .NET Framework 2.0 and WSE 2.0 SP3. If these components are not already installed, they are installed as part of the Showcase installation and require approximately 90 MB additional hard disk space.</p> <p>* Additional disk space (at least 20 GB) is recommended for storing intermediate results of Enterprise Server reports.</p>
Monitor	640 x 480 resolution minimum; 800 x 600 or more recommended.
Network protocol	Warehouse Manager Client requires a TCP/IP connection to the IBM® i.
Microsoft Excel version for add-ins	Excel 2003, 2007, 2010 (32-bit only), or 2013 (32-bit only).
Microsoft Graph	If you run reports with charts through an Enterprise Server, you must install Microsoft Graph on the Enterprise Server PC. If you have Microsoft Word or Excel (or Office) installed, you will probably have Graph on your computer system by default, since it runs from within these applications.
IBM Lotus version for add-ins	Lotus Millennium 9.6 or 9.8.
Other	DVD drive (or network access to installation files).

Virtualized Environments

Virtualized Showcase Client Environments

Enterprise-class customers can deploy Showcase client applications in a virtualized environment, performing all of the same tasks as though the client software were actually installed on desktop client machines. Showcase 9 client applications can be deployed in these virtualized client environments:

- Citrix 4.5
- XenApp 5.0, 6.0 and 6.5

Virtualized Showcase Enterprise Server Environments

Showcase Enterprise Server can be deployed in these virtualized environments:

- VMWare ESX Server 3.0
- VMWare ESX Server 3.5

Showcase Warehouse Builder Requirements

If you are using IBM® i data sources, the following are installation requirements and recommendations for Showcase Warehouse Builder:

- You must have an IBM i for a control server. The control server must be the same Showcase version as the client version you are installing.
- By default, only users with *ALLOBJ authority can use Warehouse Builder. To authorize users, grant them application authority in Showcase Warehouse Manager Client.
- Distribution performance is better if the target table is not journaled. To avoid using journaled tables, verify that the target collection is created using the CRTLIB command rather than the SQL command CREATE COLLECTION. Also, open Warehouse Builder and from the Tools menu, choose Options. On the Defaults tab, verify that Create Target SQL Collection is not selected (this is the default setting).
- The job queue SCDDJOBQ is added to the subsystem you choose during installation. The maximum number of jobs on the Job Queue entry of the subsystem is set to *NOMAX by default.
- A routing entry is added to the subsystem you choose during installation (if the routing entry does not exist). It uses the class QGPL/QWCPLSUP. If you want to use a different class, you can change it after the installation is complete. For details, see "Routing Entries" in Chapter 6 in the *Showcase 9 Administrator's Guide*.
- If either of the server options Exclude users from libraries by default or Exclude users from tables by default is selected, you must have *ALLOBJ or data administrator authority to access all information when using Warehouse Builder to create tables.

Remote DB2 Setup (for Showcase Warehouse Builder)

To use Showcase Warehouse Builder with remote DB2 platforms, Distributed Relational Database Architecture (DRDA) communication is required between each remote DB2 platform and the IBM® i control server. If you need help configuring DRDA, consult the documentation provided with IBM i. You can use SNA or TCP/IP communications for your DRDA connections.

The IBM i acting as the control server must have a relational database directory entry for each remote DB2 platform. To add the entry, use the ADDRDBDIRE command on your control server.

Enterprise Server Requirements

About the Enterprise Server

The Enterprise Server is one or more PCs that process scheduled queries/reports from the server and dynamic queries/reports from the web browser and publish the results to the repository or another PC on your network. If you use more than one Enterprise Server, they will run pooled. This means that they will logically act as one server, and the server with the lightest load will process the incoming request. However, for scheduled reports, you can choose to dedicate requests to a specific Enterprise Server. Enterprise Server can be run as a Windows service program in Showcase 9, allowing the service to start automatically without user interaction.

For Enterprise Server installation instructions and information about setting up and starting the Enterprise Server, see *Installing the Enterprise Server* on page 37.

About Report Services

Report Services runs reports on the server and publishes the results, in different formats, without requiring a PC such as an Enterprise Server. Report Services provides a mechanism to load and interpret database queries and reports, retrieve data from various data sources, perform data manipulation such as calculations, and format the output into HTML or Excel. By default, Report Services is enabled through IBM Collaboration and Deployment Services Deployment Portal. All dynamic web and scheduled queries are run via Report Services provided they meet certain criteria. The Enterprise Server is still required for requests not meeting these criteria. For details about Report Services, including a list of the criteria where the Enterprise Server is required, see the *Showcase 9 Administrator's Guide*.

Enterprise Server PC Requirements

Enterprise Server PCs have the following requirements:

- Microsoft Windows 7 Professional or Enterprise edition (32- or 64-bit), Microsoft Windows Vista Business or Ultimate edition ((32- or 64-bit), Microsoft Windows XP Professional (32-or 64-bit), or Microsoft Server 2008R2, all with the latest Microsoft service packs installed.
Note: Enterprise Server can also be installed in virtual server environments VMWare ESX Server 3.0 or 3.5.
- 1.8 GHz microprocessor or greater, or the minimum required by your operating system
- 75 MB free disk space. Additional disk space (at least 20 GB) is recommended for storing intermediate results of Enterprise Server reports.
- 512 MB of RAM (1 GB recommended) or greater, more than the minimum required by your operating system. Additional RAM (1 GB) is recommended to run concurrent reports on the Enterprise Server.
- Enterprise Server (installed)
- Showcase Query and Showcase Report Writer (installed)
- ODBC drivers
- If you run reports with charts through an Enterprise Server, you must install Microsoft Graph on the Enterprise Server PC. If you have Microsoft Word, Excel, or Office installed, you will probably have MS Graph installed on your computer system by default, since it runs from within these applications.

Important: The Enterprise Server PC and the publishing PCs must specify the same data source names and server names. After you set up the Enterprise Server, provide your publishers with the data source and server information you used.

Additional Enterprise Server Requirements

The following issues apply when you are running Showcase Query/Showcase Report Writer and Enterprise Server on separate PCs, scheduling queries/reports, or enabling dynamic reports. It is important to create a consistent environment between your publishing PCs and Enterprise Server PCs to ensure scheduling and web browser-based reporting work properly. We recommend setting up your PC environments before actually publishing queries/reports.

Publishing PCs and Enterprise Server PCs must define the same:

- Data source names (defined in Microsoft ODBC Administrator)
- Repository connection names (defined in Query or Report Writer)
- Drive and directory structures (for scheduled output)

Consistent Data Sources and Server Names

If your Enterprise Server will be on a separate PC from your publishing PC(s), read this section before you install the Enterprise Server. For installation instructions, see *Installing the Enterprise Server* on page 37.

The Enterprise Server PC(s) and publishing PC(s) (the PC(s) that create and schedule queries or reports) must define the same data source names and repository connection names. After you set up your Enterprise Server and publishing PCs, verify that the same data source names and repository connection names exist on all PCs.

***Note:** For dynamic and scheduled reports that use Report Services, the data sources in IBM Collaboration and Deployment Services must also match. For details about Report Services versus the Enterprise Server, see the Showcase 9 Administrator's Guide.*

Administrators: When you define data source names on the Enterprise Server, be sure to communicate the names to publishers so they know what to name the data sources on their PCs.

Installing and Uninstalling Server Components

The Showcase Warehouse Manager Server supports Showcase Query, Showcase Report Writer, Showcase Warehouse Builder, and Showcase Warehouse Manager Client. Table 4-1 lists client components that connect to the server.

Table 4-1

Client components that connect to the server

Client component	Purpose
Query	Relational and multidimensional database query tool
Report Writer	Relational and multidimensional database report tool
Warehouse Builder	Data cleansing, transformation, and distribution
Warehouse Manager Client	Database administration

Important: If you will be using features such as saving to the repository from Query/Report Writer, sharing reports and other files with the IBM Collaboration and Deployment Services Deployment Portal web application, scheduling reports or Warehouse Builder sets, or managing repository content with IBM Collaboration and Deployment Services

Deployment Manager, you must install IBM Collaboration and Deployment Services. See the IBM Collaboration and Deployment Services documentation for installation instructions and requirements.

After installing IBM Collaboration and Deployment Services and Showcase, you must install Showcase plug-ins for IBM Collaboration and Deployment Services using the IBM® i command DPLSCPKG. If you are installing on another platform such as Windows, you must install the plug-ins from the Showcase installation media. Installation instructions are included in this chapter.

Before You Install

- If you are upgrading, read the *Showcase 9 Upgrade Guide*.
- Always save existing server information with the SAVSRVRINF command before you install. For more information, see "Saving Server Information" in the *Showcase 9 Administrator's Guide*.
- Read Chapter 3 of this manual for all prerequisites.
- Be certain you have installed the latest Java PTFs for IBM i. See "Server Requirements" on page 12.
- When you install the server, the installation selects a TCP/IP port number for you. If you want to select your own port number, use the WRKSRVTBLE command before the installation to find an available number. Do not select a port that is already in use.
- If you use Kerberos authentication, create a copy of the Kerberos configuration file for the current Showcase server. Installing the new server over the top of the existing server may cause the file to be overwritten by the installation process.

Beginning Server Installation

1. If you are upgrading an existing Showcase Warehouse Manager Server installation, save your current server information with the SAVSRVRINF command. For instructions, see the *Showcase 9 Administrator's Guide*, Chapter 5.

2. Be certain you have installed the latest Java Group PTFs. To verify the PTFs are applied and no IPL action is required, enter the following command at an IBM® i command line:

WRKPTFGRP.

The status of the Java group should be “Installed”.

3. Log on with QSECOFR or equivalent authority (*ALLOBJ, *IOSYSCFG, *SAVSYS, *JOBCTL, and *SECADM special authorities are needed).

Note: The installation will fail if the installing profile's User Profile setting is OWNER(*GRPPRF) . *GRPPRF cannot own new objects created by the installing profile.

4. Ensure that the profile is not using a CCSID of 65535 (*Hex) by issuing this command at the command line: CHGJOB CCSID(37) .

5. Create a Virtual Optical Drive with the following steps:

a. CRTDEVOPT DEVD(SCOPT) RSRNAME(*VRT) TEXT('ShowCase Optical Drive')

(If successful you will see a message like this: 'Description for device SCOPT created'.)

b. VRYCFG CFGOBJ(SCOPT) CFGTYPE(*DEV) STATUS(*ON)

(If successful you will see a message like this: 'Vary on completed for device SCOPT'.)

c. CRTIMGCLG IMGCLG(SHOWCASE) DIR('/SHOWCASE') CRTDIR(*YES)

(If successful you will see a message like this: 'Image catalog SHOWCASE created in library QUSRSYS'.)

- d. Copy the ISO from your PC to the iSeries:

Extract the ShowCase_9.5.0.0_Server.iso file from the ZIP file.

Using a mapped drive or iSeries Navigator, place the

ShowCase_9.5.0.0_Server.iso file into the SHOWCASE directory.

e. ADDIMGCLGE IMGCLG(SHOWCASE) FROMFILE('/SHOWCASE/ShowCase_9.5.0.0_Server.iso') TEXT('ShowCase 9.5.0.0 Installation File')

(If successful you will see a message like this: 'Image catalog entry added to image catalog SHOWCASE'.)

f. LODIMGCLG IMGCLG(SHOWCASE) DEV(SCOPT)

(If successful you will see a message like this: 'Image catalog SHOWCASE loaded in device SCOPT'.)

- g. To verify the mounting of the Virtual Optical Drive, issue the command

DSPOPT VOL(*All) DEV(SCOPT)

6. Start the Showcase install with the following command: LODRUN DEV(SCOPT)

7. If prompted for a path name, accept the default.

8. Follow the screen instructions and use this chapter to complete server installation. Each heading of the following sections matches a screen in the installation. The installation displays recommended values for the options.

***Note:** If installation fails, check the job log for missing requirements. Type DSPJOBLOG at a command line and press F10. Page up or down to find the information.*

National Language Support

Specify the primary and secondary languages for the Showcase products. Choose ENU for English lowercase or ENP for English uppercase. Showcase commands on the IBM® i use the primary language.

Showcase Warehouse Manager Server

Specify the library in which to install the Showcase Warehouse Manager Server. The screen displays current server libraries. Choose a library to upgrade or press F6 to install a new library. The default library name is SCSEVER. In addition, the root integrated file system (IFS) path used for the installation is based on the specified library name (the default is /SCSEVER).

To avoid problems, do not use these characters in the library name:

!	@	#	\$	%	^
&	*	()	-	+
=	~	{	}	[]
	\	:	;	'	"
.	<	>		/	?

Auxiliary Storage Pool (ASP) ID. If you add a library, you are prompted to enter the ASP ID. Accept the default or enter the number of the ASP from which the system should allocate storage for the server library. (IFS information installed with the server is always placed in the system ASP.)

Changing the Library after Installation

To change the library, you must reinstall it. Before you install a new library, save the catalog files from the old library using the SAVSRVRINF command and restore them into the new library using the RSTSRVRINF command. For more information, see the *Showcase 9 Administrator's Guide*.

Showcase Customizable Authorities

This allows the assignment of ownership of installed Showcase. By default, all objects are owned by QSECOFR. In certain instances, this is not preferred. If it is necessary to assign ownership to a different profile, select 1=Enable. If there is no preference, then leave the option blank (default).

Showcase Interlink for JD Edwards OneWorld and EnterpriseOne

Choose this option to enable Showcase Interlink for JD Edwards (JDE) World A7.3, World A9.1, World A9.2, OneWorld XE, OneWorld ERP 8.0, and EnterpriseOne ERP 9.0/9.1 tTOOLS RELEASE 9.1.0.4. Type 1 next to the options and press Enter. You will be prompted for the following information:

- OneWorld release
- JDE OneWorld System library name
- Use JDE OneWorld app security (*DISABLE or *ENABLE)
- Run authority override (*YES or *NO)
- Single JDE OneWorld profile (*ENABLE or *DISABLE)
- JDE OneWorld Program library name
- Use local or remote authentication (*LOCAL or *REMOTE)

For details about JDE, including information about the SETJDEOWA command for EnterpriseOne configuration, see the *Showcase 9 Administrator's Guide*.

Showcase Warehouse Manager Server TCP/IP Port Configuration

TCP/IP communications run Showcase applications, and the installation requires a valid TCP/IP port number. Accept the default port number or enter a port number in the range of 6000-65535, using the IBM® i command WRKSRVTBLE to find available port numbers.

Showcase 9 includes improved support for configuring firewalls. You can optionally configure a firewall Hostname, Firewall Port, and Compressed Data Firewall Port at installation or with the ADDSCTCP command after installation. If you use ADDSCTCP to set new firewall values, the old configuration settings should first be removed with RMVSCTCP.

Important: Record your TCP/IP port number. You will need it when installing the client software.

If you want to save data to the repository, after installation configure your server connections on each PC.

Each new port configured for Showcase must be enabled in your network firewall to be bi-directional.

To Configure the IBM Collaboration and Deployment Services Server Port Number

1. Open Showcase Query.
2. From the Tools menu, choose Repository Connections.
3. Add a new connection or choose an existing connection and click the Edit icon.
4. In the Repository Connections dialog box, enter the IBM Collaboration and Deployment Services server port number you specified during installation.

Changing TCP/IP after Installation

Note: The CHGSCSVRA command will stop the server, disconnect all current users, and stop current jobs. It will also start the server after changes have been made.

1. Add the server library name to your library list.
2. Type WRKSRVTBLE to determine if the port you want to use is available.
3. Type CHGSCSVRA, and add the new port number, subsystem, and library.

Changing Firewall Settings after Installation

After installation, use the ADDSCTCP and RMVSCTCP commands to configure the subsystem, TCP/IP ports, and the RMI host name used for the Showcase Warehouse Manager Server. Configurable ports include the main listening port, the firewall listening port, and the compressed data port. The ports are added to the IBM® i service table and can be viewed with the WRKSRVTBLE command by looking for entries beginning with SCSSERVER, SCFIREWALL, and SCRMICOMP and ending with the name of the Showcase Server library. The RMI host name is stored in a Showcase internal object. Note: Use RMVSCTCP to remove existing configuration settings before assigning new values with ADDSCTCP.

Backward Compatibility with showcase.cfg

Firewall settings can also be entered manually in the configuration file *showcase.cfg*, but this method is not recommended. Showcase will check for firewall entries in *showcase.cfg* and use them if the firewall ports and RMI hostname are not defined elsewhere (at installation or with ADDSCTCP).

Firewall entries in *showcase.cfg* should follow these formats:

```
showcasecorp.firewallport=<port_no>  
showcasecorp.compression.firewallport=<port_no>  
showcasecorp.rmi.server.hostname=<hostname>
```

Firewall settings entered manually in `showcase.cfg` also need to be removed manually if the `ADDSTCP` command is used to configure the settings later. If the firewall configuration entries in `showcase.cfg` conflict with firewall values set with `ADDSTCP`, the `ADDSTCP` settings take precedent.

***Note:** The configuration file is located by default at `<SCSERVER>/proddata/config/showcase.cfg`, where `SCSERVER` is the name of the Warehouse Manager Server installation library.*

IBM i Work Management and CCSID Configuration

Specify the following options for the server:

Relational subsystem and library. Showcase Warehouse Manager Server TCP/IP jobs will run in the relational subsystem. Your current subsystem, as determined by the `QCTLSBSD` system value, is displayed and should not be changed.

***Note:** If the controlling subsystem is `QBASE`, then `QBASE` is the default. If the controlling subsystem is `QCTL`, then `QCMN` is the default. To find the controlling subsystem, type `DSPSYSVAL SYSVAL(QCTLSBSD)`.*

The subsystem description resides in the specified library. `QSYS` is the default.

Server CCSID (EBCDIC). The server uses the Extended Binary Coded Decimal Interchange Code (EBCDIC) coded-character set identifier (CCSID) to represent character data when interacting with DB2 and IBM® i. The recommended EBCDIC CCSID value for your system is displayed.

Client CCSID (ASCII). The server uses the ASCII CCSID for PC-based operations. This CCSID is used during startup time before the client CCSID is determined, and it supports translation to and from the EBCDIC CCSID. This does not affect what code page or encoding Windows and web clients are able to run. The server supports multiple Windows and web clients on any code page or encoding that upholds translation to the EBCDIC CCSID.

The installation calculates this value based on the EBCDIC CCSID value. For example, if the EBCDIC CCSID is 37, the matching ASCII CCSID is 1252, which supports Western European languages (English, French, German, Italian). To find valid CCSID pairs, see Table 4-2.

Changing CCSIDs after Installation

To change the server CCSID, you must reinstall the server.

CCSID Pairs

The following EBCDIC and ASCII CCSID pairs are recommended for the server.

Table 4-2

EBCDIC and ASCII CCSID pairs

Country, Geographic Region, or Language Group	EBCDIC CCSID(s)	Matching ASCII CCSID(s)
United States/Canada/Brazil	37, 1140	1252
Multinational #1	256	1252
Germany/Austria	273, 1141	1252
Denmark/Norway	277, 1142	1252
Finland/Sweden	278, 1143	1252
Italy	280, 1144	1252
Spain/Latin America	284, 1145	1252
United Kingdom	285, 1146	1252
France	297, 1147	1252
Greece	423, 875	1253
Multinational #5	500, 1148	1252
Korea (single-byte)	833	1040, 1088
Korea (double-byte)	933	944, 949
Chinese Simplified (single-byte)	836	1115
Chinese Simplified (double-byte)	935	1381
Chinese Traditional (single-byte)	37, 28709	904
Chinese Traditional (double-byte)	937	938
Japan (single-byte)	1027	932
Japan (double-byte)	5035	932, 943
Thailand	838, 9030	874
Central Europe (Bosnia, Croatia, Czech Republic, Hungary, etc.)	870	1250
Iceland	871, 1149	1252
Cyrillic Multinational	880, 1025	1251
Baltic	1112, 1122	1250
Hebrew	37, 1140	1252
Arabic	62224	1256

Security Settings

Specify whether your Showcase Warehouse Manager Client users will have access to all libraries on the IBM® i (*ALL) or only libraries and files in their library list (*LIBL). This setting applies only to Showcase client applications using the server.

Changing Security Settings after Installation

1. Open Showcase Warehouse Manager Client.
2. From the menus, choose Manage\Server Options\Security.

You can also use the IBM® i commands SETLIBACC and CHGSRVRDFT, located in the server library. SETLIBACC determines library access. CHGSRVRDFT defines default server security options. To run these commands, first add the server library (default SCSERVER) to your library list.

Storage CCSID Configuration

The storage CCSID value specifies the coded character set identifier that stores library, file, and column alias names. It also stores data views and Showcase Warehouse Builder distribution sets and definitions.

This value must be a Showcase-supported, single-byte EBCDIC CCSID (or CCSID 5035 for Japanese double byte). Enter your CCSID value, or use *CALC or *HEX to let the installation calculate it based on your IBM® i system settings. Table 4-3 shows the EBCDIC CCSIDs supported for the Showcase Warehouse Manager Server storage CCSID value.

Important: If you are using IBM Collaboration and Deployment Services Deployment Portal to share queries/reports, you must use a valid, specific storage CCSID. Do not use a storage CCSID of 65535 (*HEX). When installing on a DBCS system, the CCSID you choose may restrict you from using other types of CCSIDs.

Note: For the JD Edwards (JDE) SETJDEOWA command, the interactive job CCSID must be something other than 65535.

Table 4-3

Showcase Warehouse Manager Server storage EBCDIC CCSIDs

Country, Geographic Region, or Language Group	EBCDIC CCSID
United States/Canada/Brazil	37
Multinational #1	256
Germany/Austria	273
Denmark/Norway	277
Finland/Sweden	278
Italy	280
Spain/Latin America	284
United Kingdom	285
France	297
Greece	423, 875
Hebrew	62235
Multinational #5	500
Korea	833
Chinese Simplified	836
Chinese Traditional	37, 28709
Thailand	838
Central Europe (Bosnia, Croatia, Czech Republic, Hungary, etc.)	870
Iceland	871
Cyrillic Multinational	880, 1025
Japan (single-byte)	1027
Japan (double-byte)	5035
Iran	1097
Hexadecimal (*HEX)	65535

Note: For general information about IBM i CCSIDs, see the documentation provided with IBM i.

Changing Storage CCSIDs after Installation

Reinstall the server and specify a different CCSID.

Showcase Warehouse Builder Configuration

Warehouse Builder subsystem and library. Showcase Warehouse Builder distribution jobs run in the Warehouse Builder subsystem. Your current subsystem, as determined by the QCTLSBSD system value, is displayed and should not be changed. You should use the same subsystem as your TCP/IP subsystem.

Note: If the controlling subsystem is QBASE, then QBASE is the default. If the controlling subsystem is QCTL, then QCMN is the default. To find the controlling subsystem, type DSPSYSVAL SYSVAL (QCTLSBSD) . The current subsystem description resides in the specified library.

IBM Collaboration and Deployment Services Plug-Ins

Showcase 9 is integrated with IBM Collaboration and Deployment Services.

To enable Showcase integration with IBM Collaboration and Deployment Services, you must install plug-ins into the IBM Collaboration and Deployment Services Repository. After the Showcase Warehouse Manager Server installation completes, see "Installing IBM Collaboration and Deployment Services Plug-Ins" on page 26.

Sample Database

You can install a sample database during server installation on the IBM® i . Selecting this option creates a library on the IBM i called SCSAMPLE90. This library contains the files for the SCSAMPLE90 sample database and IBM i save files for creating other sample databases. You can use the sample database while viewing the Showcase tutorials. For more information about the sample databases, see Appendix B in the *Showcase 9 Administrator's Guide*.

Installing the Sample Database after Installation

You can install or reinstall the sample database later with the RSTSMPLB command. See Appendix B in the Showcase 9 Administrator's Guide.

Confirm the Installation

At this point, you have finished setting server installation options. If you need to make any changes to your settings, press F12 to back up and make the appropriate changes. If you are ready to proceed with the installation, press Enter.

Installing IBM Collaboration and Deployment Services Plug-Ins

To install IBM Collaboration and Deployment Services plug-ins for Showcase on the IBM® i , after installing both products, use the following steps.

Note: If you use Showcase Warehouse Builder and want to schedule sets in IBM Collaboration and Deployment Services Deployment Manager, you will be prompted for your Warehouse Builder connection information. Make sure you enter this information correctly or you will need to reinstall the plug-ins.

You must install the Showcase 9 client applications on the same machine that hosts the IBM Collaboration and Deployment Services clients.

1. Verify the IBM Collaboration and Deployment Services server and the application server are running.
2. Log on to the IBM i with QSECOFR or equivalent authority (*ALLOBJ, *IOSYSCFG, *SAVSYS, *JOBCTL, and *SECADM authorities are needed).
3. To add the server library to your library list, type the command `ADDLIB SCSERVER` (where SCSERVER is the name of your Showcase Warehouse Manager Server library).
4. Type the command `DPLSCPKG` and press Enter.
5. Follow the screen instructions to complete plug-ins installation. You are prompted for the location of your IBM Collaboration and Deployment Services Repository installation, your Warehouse Builder library information, and the IBM Collaboration and Deployment Services administrator user ID and password.
6. After the plug-ins installation completes, restart the IBM Collaboration and Deployment Services server and the application server.

Uninstalling Server Components

You may occasionally need to uninstall server libraries on your IBM® i system (such as test libraries).

To Uninstall Server Libraries

1. Log on with QSECOFR or equivalent authority (*ALLOBJ, *IOSYSCFG, *SAVSYS, *JOBCTL, and *SECADM special authorities are needed).
2. Back up any server settings you want to save. See the Showcase 9 Administrator's Guide for instructions.
3. Verify no users are connected to the library. See the Showcase 9 Administrator's Guide for instructions.
4. Restore the UNINSTSC utility from the UNINSTSC save file that exists in the server library by entering the following command:

```
RSTOBJ OBJ(*ALL) SAVLIB(QTEMP) DEV(*SAVF) SAVF(serverlib/
UNINSTSC) MBROPT(*ALL) ALWOBJDIF(*ALL) RSTLIB(QTEMP)
```

Where `serverlib` is the name of the library to uninstall.

Note: This restores three objects into QTEMP.

5. Enter `QTEMP/UNINSTSC` and press Enter. This command cannot be submitted to batch mode.
6. Enter the name of the library you want to uninstall and press Enter to confirm.

Installing and Uninstalling Client Components

Before You Begin

We recommend **disabling all antivirus software** before installing Showcase 9. Some antivirus software changes file properties and could prevent correct installation.

- If you are upgrading to Showcase 9, see the Showcase 9 Upgrade Guide at <http://support.spss.com>.
- Showcase 9 interoperates with IBM Collaboration and Deployment Services. If you will be using IBM Collaboration and Deployment Services features, you must install IBM Collaboration and Deployment Services and then install the Showcase plug-ins after the Showcase Warehouse Manager Server installation and IBM Collaboration and Deployment Services Repository installation. For more information, see the topic Installing IBM Collaboration and Deployment Services Plug-Ins in Chapter 4 on page 26.
- If the installation detects an existing Showcase installation, you have the option to remove it. If you choose not to remove the existing version, you must specify an installation folder other than the existing path. Installing multiple versions of Showcase on one machine is not a supported environment.
- If you install Showcase with a network installation, choose a new network folder for the Showcase 9 installation.
- Before installing the client software, the Warehouse Manager Server software must be installed and running. For more information, see Chapter 4.

Enterprise Server Considerations

Any PC on which Enterprise Server is installed must also have Showcase Query and Showcase Report Writer installed to run scheduled and dynamic reports. Enterprise Servers are defined and managed in IBM Collaboration and Deployment Services Deployment Manager. In Showcase 9, Enterprise Server runs as a Windows service program by default, but can also run within a DOS Window if desired.

***Note:** You cannot use the workstation installation option to install or use Enterprise Server from the network.*

Running the Installation Multiple Times

If you install different Showcase components at different times, the installation uses the same folder from which Showcase was first installed. This logs installed software for easy uninstallation. You are prompted to add or remove components, reinstall selected components, or uninstall Showcase. If you reinstall after a patch is applied, you must reapply the patch after installation.

Installing Showcase onto PCs

There are three ways to deploy Showcase. Choose the best method for your situation. Step-by-step instructions are provided in the following sections.

Important: Do not use the Microsoft Add/Remove Programs application to initiate the Showcase installation.

Local Installation. Installs Showcase onto user PCs.

Network installation. Installs Showcase onto the network so that users can install or run it from a shared location. A network installation allows users to choose either a local installation, which installs Showcase onto user PCs, or a workstation installation, which installs only the required files onto user PCs (all other files reside on the network).

Silent installation. This method requires no user intervention. For more information, see the topic Silent Installation on page 31.

Local Installation

1. Download the zip file for the Showcase Client 32-bit English (Full Install) from Help/Systems Website (www.helpsystems.com/showcase).
2. Once the file is unzipped, double-click the `setup.exe` file in the \Client folder.
3. The Showcase launch pad appears and you will be prompted to select a language (such as English or French) for the installation.
4. Choose from the Showcase installation screen options. Follow the instructions on the screen to complete the installation.

Network Installation

During network installation, the administrator installs the Showcase setup and client files onto a shared network location. End users can then run `setup.exe` to install files onto their local PCs (local installation) or to access files from the network (workstation installation).

Step 1: Install Showcase onto the Network

Before starting the network installation, create a destination folder in the desired network location. Select this folder when prompted to browse for the destination location.

Follow the instructions for "Local Install" above. In the Install Type dialog box, choose `Install to the network`.

Step 2: Install Showcase Files onto User PCs

Users have two options:

- **Local installation.** Installs all Showcase files onto the PC.
- **Workstation installation.** Installs only the required files onto the PC and points to the product, online help, sample files, and so on, which reside on the network.

Performing a Local or Workstation Installation

1. Using Windows Explorer, find the network folder where Showcase was installed, and double-click the `setup.exe` file.
or
From the Windows Start menu, choose Run. Browse to the network folder where the Showcase `setup.exe` file is located. Select `setup.exe` and click OK.
2. The setup instructions on the screen will guide you through the installation. Select the `Local` or `Workstation` installation option.

***Note:** If the installation detects a previous version of Showcase, you have the option of uninstalling the previous version. Multiple versions of Showcase on the same machine is not a supported environment.*

Silent Installation

Showcase 9 client applications can be installed in silent mode. In silent mode, the installation process runs without a user interface and without user intervention. A silent installation can deploy Showcase client applications to many users and ensure that the same software is installed on each PC. When running an installation in silent mode, no messages are displayed for the end user. Instead, a log file captures installation information, including whether the installation was successful.

To set up silent installations, administrators record installation settings to an InstallShield Silent (ISS) response file. Multiple response files (.iss) can be created to customize the installations for different user groups. The installation media and response files are made available in a shared network location. The silent installations can then be launched manually (from a command line or Windows shortcut) or automatically (using a logon script or other method).

The *setup.exe* command in the Showcase installation directory (on the network) is used to record and run silent installations. The */r* switch is used to record a silent installation, and the */s* switch is used to play back a silent installation. The optional */f1* and */f2* switches are used to specify an alternative location and name for the .iss file and .log file, respectively. For more information, see the topic Command Line Parameters on page 34.

- To record a silent installation, run the `setup.exe /r [/f1]` command. Administrators can select installation options (for a target user group) and they will automatically be recorded to the response file.
- To play back a silent installation, run the `setup.exe /s [/f1] [/f2]` command. The setup options contained in the response file will be used to configure the installation.

Step 1: Install Showcase to the Network

To begin the process of setting up silent installations, install Showcase to a shared network location accessible to the end users performing the silent installations. For more information, see the topic Network Installation on page 30.

Step 2: Record the Response File(s)

A normal (non-silent) installation receives the necessary input from the user in the form of responses to dialog boxes. A silent installation does not prompt the user for input. A silent installation gets its user input from a different source. That source is the InstallShield Silent response file (.iss). A response file contains information similar to that which an end user would enter as responses to dialog boxes when running a normal setup. InstallShield Silent reads the necessary input from the response file at run time. The format of response files resembles that of an .ini file, but response files have .iss extensions. A response file is a plain text file consisting of sections containing data entries.

To Record a Response File

1. From a command prompt, change to the network directory where Showcase was installed in the previous topic. For example: `N: cd \Network\Apps\ShowCase\9.0\`
2. Run the following command to start the installation process and record the installation options to an InstallShield Silent file:

```
N:\Network\ISS\ShowCase.iss:setup.exe /r /f1
"N:\Network\ISS\ShowCase.iss"
```

Note: If you omit the /f1 option, the response file is written to %SystemRoot%\%WinDir%\setup.iss (for example, C:\Windows\setup.iss).

3. Complete the setup windows, actually completing a normal installation. The response file records all the settings specified. At this point, you can install the Showcase applications in interactive mode, using *setup.exe* without any parameters, or in unattended (or silent) mode, by pointing to the .iss file during playback.

To Record Multiple Response Files

Repeat the process above to specify different configurations for different user groups. Save each response file (.iss) under a unique filename.

Sample Response File

A sample response file (*setup.iss*) is located in the *32-Bit English\SilentInstall\Sample* folder. The file can be manually edited with a standard text editor and customized to your specification. For more information on manually authoring a response file, see the *InstallShield 2010 User Guide*.

Step 3: Play Back the Silent Installation

1. On each machine where you want to install Showcase silently, map to the network drives containing the installation media and the .iss file.
2. Create a Windows shortcut to the *setup.exe* file. Rename the shortcut to something easily understood. Modify the properties of the shortcut in the following steps.
3. Right-click the shortcut and choose Properties. The Properties window is displayed.
4. In the Target field, add /s /f1"response_file_path" /f2"log_file_path" to the end of the command, where *response_file_path* is the full path and name of the response file and *log_file_path* is the full path and name where the log file should be created.

For example, if the response file is named *rwquery.iss* and is stored in the *N:\ShowCase* directory and the log file should be created in the local *C:\temp* directory, the information in the Target field would be as follows:

```
setup.exe /s /f1"N:\ShowCase\rwquery.iss"  
/f2 "C:\temp\rwquery.log"
```

5. End users can double-click the customized shortcut to launch the silent installation. Different shortcuts should be created for different target groups to invoke the custom .iss file created for each user group.

Step 4: Check the Log File for Errors

The default name for the silent installation log file is *setup.log*. By default, it is created in the same directory that contains the response file used in the installation. You can specify a different name and location for *setup.log* using the /f2 switch with *setup.exe*. We recommend creating a separate log file for each user's silent installation. By specifying a local folder (instead of a shared network folder), the log file will not be overwritten by other users.

The *setup.log* file contains three sections.

- The first section, **[InstallShield Silent]**, identifies the version of InstallShield Silent used in the silent setup. It also identifies the file as a log file.
- The second section, **[Application]**, identifies the installed application's name and version, and the company name.

- The third section, **[ResponseResult]**, contains the result code indicating whether or not the silent setup succeeded. An integer value is assigned to the ResultCode keyname in the [ResponseResult] section. InstallShield places one of the following return values after the ResultCode keyname:

Value	Description
0	Success
-1	General error
-2	Invalid mode
-3	Required data not found in the <i>setup.iss</i> file
-4	Not enough memory available
-5	File does not exist
-6	Cannot write to the response file
-7	Unable to write to the log file
-8	Invalid path to the InstallShield Silent response file (.iss)
-9	Not a valid list type (string or number)
-10	Data type is incorrect
-11	Unknown error during setup
-12	Dialog boxes are out of order
-51	Cannot create the specified folder
-52	Cannot access the specified file or folder
-53	Invalid option selected

For a successful installation, the log file should look similar to the example below:

```
[InstallShield Silent]
Version=v5.00.000
File=Log File
```

```
[Application]
Name=ShowCase Version= 9.0
Company=Help/Systems
Lang=0009
```

```
[ResponseResult]
ResultCode=0
```

Command Line Parameters

The *setup.exe* command line parameters for recording and running silent installations are shown below:

Table 5-1

Command line parameters for silent installations

Parameter	Description
<code>/r</code> (record mode)	In order to run a Showcase installation in silent mode, you must first run <i>setup.exe</i> with the <code>/r</code> option to generate a response file, which stores information about the data entered and options selected by the user at run time. Running a Showcase installation program with the command <code>setup.exe /r</code> displays all the run-time dialogs, and stores the data in a file called <i>setup.iss</i> , created inside the system's Windows folder. To specify an alternative response file name and location, use the <code>/f1</code> option, described below.
<code>/s</code> (silent mode)	For Showcase, the command <code>setup.exe /s</code> runs the installation in silent mode, by default based on the responses contained in a response file called <i>setup.iss</i> in the same directory. (Response files are created by running <i>setup.exe</i> with the <code>/r</code> option.) To specify an alternative file name or location of the response file, use the <code>/f1</code> option.
<code>/f1</code> (specify alternative response file name and path)	Using the <code>/f1</code> option enables you to specify where the response file is (or where it should be created) and what its name is, as in <code>setup.exe /s /f1"C:\Temp\setup.iss"</code> . Specify an absolute path; using a relative path gives unpredictable results. The <code>/f1</code> option is available both when creating a response file (with the <code>/r</code> option) and when using a response file (with the <code>/s</code> option).
<code>/f2</code> (specify alternative log file name and path)	When running in silent mode (using the <code>/s</code> option), the log file is by default created in the same directory and with the same name (except for the extension) as the response file. The <code>/f2</code> option enables you to specify an alternative log file location and file name, as in <code>setup.exe /s /f2"C:\Logs\Showcase.log"</code> . Specify an absolute path; using a relative path gives unpredictable results.

If you want to install to a different destination path or Start menu folder than you specified while recording the silent installation, use a standard text editor to modify the response file (*.iss*).

- To change the directory in which files are installed, modify the `szDir=` statement.
- To change the name of the Start menu folder for the Showcase, modify the `szFolder=` statement.

For example, the following lines cause the files to be installed in *C:\ShowCase* and the Start menu folder to be named *ShowCase 9*:

```
szDir=C:\ShowCase
szFolder=ShowCase 9
```

For more information about the silent mode parameters, see the *InstallShield 2010 User Guide*.

Tips and Troubleshooting

I receive an error message that reads, "Not enough disk space."

This is likely an erroneous message, and the PC does have enough disk space. There are two possible solutions:

- Copy the network installation to any local drive and install from that drive.
or
- Record the installation from a different PC, but one configured as close to the problem PC as possible.

Can I perform a silent installation using a folder with a space in the name?

Yes, if you put quotation marks around the path name. Here is an example of a silent installation with the /f1 and /f2 parameters:

```
setup.exe /s /f1"N:\Applications\My ShowCase\9.0\setup.iss" /f2"C:\My Logs\setup.log"
```

Installing the Add-Ins

The Showcase BIRT plug-ins can be installed during the Showcase 9 client installation. If the BIRT client is installed after the Showcase client installation is performed, then the Showcase client installer should be rerun to install the plug-ins and add the Showcase BIRT features into the BIRT installation path. This can be accomplished by deselecting all check boxes on the installer except for the one for ShowCase Driver and SQL Import Plug-ins for BIRT Designer.

The Showcase Query add-ins for Lotus Millennium or Microsoft Excel can also be installed during Showcase client installation. The add-ins will load successfully only if the product has been installed and used at least once prior to Showcase installation.

***Note:** Users can refresh Microsoft Excel spreadsheets containing linked queries in IBM Collaboration and Deployment Services Deployment Portal. These "web-enabled" Excel spreadsheets are saved to the IBM Collaboration and Deployment Services Repository. The web add-ins are installed separately from the client add-ins. See Installing and Uninstalling the Web Add-Ins on page 37.*

Lotus Millennium add-ins are not available through the web.

Selecting Add-Ins during the Installation

During client installation, when prompted to select features to install, select the checkboxes of the add-ins you want to install. For the the Lotus and Excel add-ins, select the **Query** checkbox first, as shown in Figure 5-1.

Figure 5-1
Selecting add-ins during installation



If you are installing Showcase for the first time, and the installation detects a supported version of Excel and/or Lotus Millennium, the corresponding add-in(s) are selected by default.

***Note:** Installing the SQL Import add-in for BIRT creates new Import options on the File menu of BIRT Designer. Installing the Showcase Query add-in for Excel or Lotus Millennium creates a Showcase menu on the Excel or Lotus Millennium menu bar.*

Locating the Add-Ins for Excel

To use the client add-ins, you must install them during Showcase Query installation. If, after installing the add-ins, you do not see the Showcase menu on the Excel menu bar, use the following instructions to locate the add-ins. If you will be using the Microsoft Office 2007 version of Excel, this process may be different. Refer to the Excel 2007 online help.

1. Open Excel, and on the Tools menu, click **Add-Ins**. The Add-Ins dialog box appears.
2. In the Add-Ins dialog box, select **ShowCase Query Add-in** and click OK, as shown in Figure 5-2.

Figure 5-2
Add-Ins dialog box



This enables the Showcase menu on the Excel menu bar.

3. If **ShowCase Query Add-in** is not listed in the Add-Ins dialog box, click **Browse** to search for the file.
4. Navigate to the *Bin* directory of your Showcase installation (for example, *C:\Program Files\ShowCase\9\Bin*), select *SCXADD32.XLL*, and click **OK**.
5. When **ShowCase Query Add-in** appears in the Add-Ins dialog box, select it and click **OK**. The Showcase menu should now appear on the Excel menu bar.

For more information about add-ins, see the Query online help.

Installing and Uninstalling the Web Add-Ins

Microsoft Excel workbooks with Showcase Query add-ins can be saved to the repository to be viewed and refreshed via the web. These "web-enabled" Excel workbooks are saved as .xlr files. Via the web, the Showcase add-in menu in Excel allows users to dynamically refresh certain queries or all queries in the web-enabled workbook (.xlr).

Users who access these workbooks in IBM Collaboration and Deployment Services Deployment Portal do not need to have the Query client installed on their machines to refresh the workbooks. However, if a user does not have the files installed to enable add-ins or has a different version of the files installed, a small auto-download and installation through the web is required before running a workbook. This automatic web download installs various files from the server to the user's client machine and requires the user to have write authority to his or her C drive and administrative authority to their PC.

Important: To open .xlr workbooks, you must add your Deployment Portal URL as a trusted site. In Internet Explorer, go to **Tools\ Internet Options\Security\Trusted Sites**. You must also have security set to Low for your trusted sites. If security is set to Medium or High, contact your administrator.

For more information about Query add-ins via the web, including important items to be aware of, see the Query online help.

To uninstall the web add-in files:

1. Navigate to your download location.
2. Right-click **ShowCase 9.0 Web Add-in** and choose **Remove**. The files will be deleted.

Installing the Enterprise Server

1. Install the Showcase client on the PC designated as the Enterprise Server. For PC requirements, see Enterprise Server Requirements on page 16.
2. On the components list, select Enterprise Server. Required product files such as Showcase Query and Showcase Report Writer will then be selected automatically.

***Note:** Note: Report Services may help you avoid the need for an Enterprise Server PC. For details, see the Showcase 9 Administrator's Guide.*

Setting Up a Data Source on the Enterprise Server

See Chapter 6. Note that the data source name on the Enterprise Server must match the data source name on all publishing PCs. The data source name is case sensitive.

Adding a Repository Connection on the Enterprise Server

1. Open Showcase Query.
2. On the Tools menu, select **Repository Connections**. This opens the Repository Connections dialog box.
3. Select **Add a new server entry**, and enter a name to represent the Repository connection.
4. Specify the IBM® i IP address or system name and the IBM Collaboration and Deployment Services Server port number, and click **OK**. Write the name and number here for reference.

IBM i IP Address or System Name: _____

IBM Collaboration and Deployment Services Server Port Number:

5. In the Repository Connections dialog box, select **Connect to the server**. The connection is made when the icon beside the server name turns green.
6. Close Query.

Starting the Enterprise Server

Enterprise Server can also be configured to start and stop automatically as a Windows service program, eliminating the need to start the server manually. To configure the Showcase Enterprise Server properties, choose Start\Control Panel\Administrative Tools\Services and then double-click **ShowCase Enterprise Server**.

The Enterprise Server must remain active to receive requests from the IBM® i . To stop the server, click Stop on the Showcase Enterprise Server Properties (Windows service) dialog box.

An alternate way to start the Enterprise Server is to select it from the Windows Start menu, under [All] Programs\IBM\ShowCase 9.0\ShowCase Enterprise Server. A DOS window will show that the Enterprise Server is running. The Windows Server must be stopped before this is attempted.

For each Enterprise Server that you will use, define the Enterprise Server in IBM Collaboration and Deployment Services Deployment Manager. For instructions on defining server connections, see the Deployment Manager online help or user's guide.

Uninstalling Showcase

This section explains how to uninstall the Showcase 9 client components. To uninstall the server components, see "Uninstalling Server Components" on page 27. To uninstall any release prior to Showcase 9, see the documentation for that release and the *Showcase 9 Upgrade Guide* at <http://support.spss.com>.

Uninstalling Showcase from PCs

1. From the Windows Start menu, choose Settings\Control Panel.
2. Double-click **Add/Remove Programs**.

3. Choose **Showcase 9** and click **Remove**. A dialog box is displayed with the following options. Click **Cancel** to cancel the uninstallation.
 - **Yes, remove all ShowCase settings, files, and folders.** Select this option to completely remove Showcase. Data source definitions will not be saved.
 - **Uninstall, but preserve current product settings and data source information.** Select this option to remove Showcase, but save data source definitions and other files/folders in the location that the product was installed.
4. After uninstalling, reboot the computer before reinstalling Showcase 9.

Note: If the Showcase client patch has been applied, be sure to uninstall that first. Then, uninstall the client.

Uninstalling Showcase from the Network

You must manually delete the folder and its contents from the network drive

Setting Up a Data Source

To set up data sources, use the Microsoft ODBC Administrator (*odbcad32.exe*), installed with Showcase PC client components. You can access it from the menus by choosing **[All] Programs \ Showcase 9 \ Microsoft ODBC Administrator**.

Relational components. Set up a Showcase IBM i Driver data source on each PC that accesses the server through Showcase applications. You will need:

- IBM® i IP address (or server name)
- Server library port number

Non-DB2 data sources. Set up non-DB2 data sources to access the following:

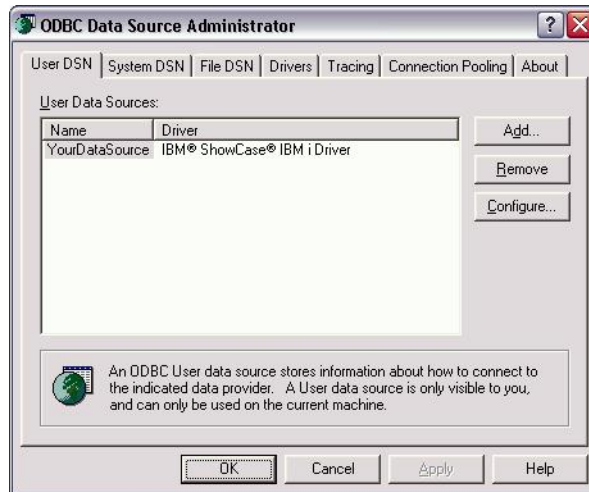
- Microsoft Access or Excel 2003 or 2007
- Microsoft SQL Server 2005 or 2008
- IBM Lotus Domino 8.5
- Oracle 10g or 11g

Adding a Showcase IBM i Driver Data Source

1. From the Windows Start menu, choose **[All] Programs \ ShowCase 9 \ Microsoft ODBC Administrator**:

Figure 6-1

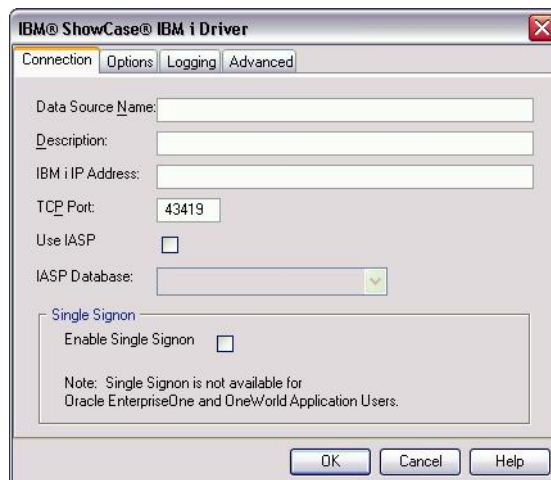
Microsoft ODBC Administrator dialog box



2. Click **Add**.
3. In the Create New Data Source dialog box, select **ShowCase IBM i Driver** and click **Finish**.

Figure 6-2

Showcase IBM i Driver dialog box



4. Enter a user-defined name that represents your Showcase IBM i Driver data source. The data source name (DSN) is used when the data source connects to the server. Adding a description is optional.

***Note:** If you are sharing queries, using the same data source name on all PCs will make sharing queries easier for novice users.*

5. Enter the IP or Internet address assigned to your server. The address can be either an IP address number or an IP name, whichever your system is set up to use.

6. Enter the 5-digit TCP port number assigned to the server library that contains server application software. The port number is specified during installation of Showcase Warehouse Manager Server software.

***Note:** If you do not know the TCP port number, use the IBM® i command WRKSRVTBLE and search for SCSERVERlibname, where libname is the server library name.*

7. If you plan to use this data source with an IBM i Independent Auxiliary Storage Pool (IASP) rather than the local database, select the Use IASP option and select an IASP from the drop-down list. The drop-down list shows all available IASPs. The Warehouse Manager Server must be running to retrieve the list of IASPs. It may take a considerable amount of time to retrieve the list of available IASP databases after clicking the drop-down list.

If you plan to use Showcase Warehouse Builder with an IASP, you must configure separate Showcase IBM i Driver data sources: one for the Warehouse Builder Control Server (local database), one for the Warehouse Builder Source Server (local database or IASP), and one for the Warehouse Builder Target Server (local database or IASP). Click Help for more information. For details about Warehouse Builder Control, Source, and Target Servers, see the Warehouse Builder online help.

8. Click **OK**.

For more information about all Showcase IBM i Driver dialog box options, see the Showcase IBM i Driver online help.

Adding a non-DB2 Data Source

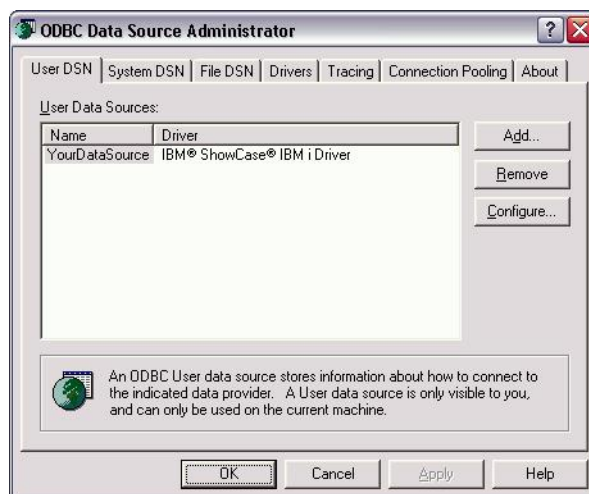
Set up non-DB2 data sources to access the following:

- Microsoft Access or Excel 2003 or 2007
- Microsoft SQL Server 2005 or 2008
- Lotus Domino 8.5
- Oracle 10g or 11g

1. From the Windows Start menu, choose **[All] Programs \ IBM \ ShowCase 9 \ Microsoft ODBC Administrator:**

Figure 6-3

Microsoft ODBC Administrator dialog box



2. Click **Add**.
3. In the Create New Data Source dialog box, select the driver for your non-DB2 data source and click **Finish**.
4. Enter a user-defined name that represents your data source. The data source name (DSN) is used when the data source connects to the server. Adding a description is optional.
***Note:** If you are sharing queries, using the same data source name on all PCs will make sharing queries easier for novice users.*
5. Enter the other settings required for the non-DB2 data source. Click Help for driver-specific instructions.
6. Click **OK**.

Modifying a Data Source

You can modify a data source if you need to change the data source name, IP address, TCP port number, or other options.

Modifying a Data Source through Microsoft ODBC Administrator

1. From the Windows Start menu, choose [All] Programs \ IBM \ ShowCase 9 \ Microsoft ODBC Administrator:
You will see a dialog box similar to Figure 6-3 for your data source.
2. Select the data source to modify and click **Configure**. You will see a dialog box similar to Figure 6-2.
3. Modify the data source setup information as necessary and click **OK**. Click **Help** for driver-specific instructions.

Connecting to the IBM i

You can connect to the server with any of the Showcase client applications.

***Note:** The CCSID of the profile used to connect to the data source must match the server CCSID. For example, if you installed the server with an English CCSID, but connect to the server with a German user ID, you may encounter unexpected results.*

Connecting with Showcase PC Applications

- To open an application, from the Windows Start menu, choose **[All] Programs \ IBM \ Showcase 9**.

Showcase Query

1. Open Showcase Query, and from the File menu, choose **New \ Query**.
2. If you have not specified a default data source, Query will prompt you to select one. Select a data source and click **Next**.
3. In the Showcase IBM i Driver logon dialog box, enter your user ID and password and click **OK**.
If your connection is successful, the Tables dialog box appears and your PC is connected to the server.

Showcase Report Writer

1. Open Showcase Report Writer, and from the File menu, choose **New \ Report**.
2. In the Choose Report Style dialog box, select a style and click **OK**.
3. If you have not specified a default data source, Report Writer will prompt you to select one. Select a data source and click **Next**.
4. In the Showcase IBM i Driver logon dialog box, enter your IBM® i user ID and password and click **OK**.
If your connection is successful, the Tables dialog box appears and your PC is connected to the server.

Showcase Warehouse Builder

1. Open Showcase Warehouse Builder and select a data source to use as a control server. This is the server library in which you want to store your distribution definitions. Click **OK**.
2. In the Showcase IBM i Driver logon dialog box, enter your IBM® i user ID and password and click **OK**.
If your connection is successful, the Warehouse Builder Assistant dialog box appears (if enabled) and your PC is connected to the server.

Showcase Warehouse Manager Client

1. Open Showcase Warehouse Manager Client and select the data source to which you want to connect.
2. From the File menu, choose **Connect**, or click the Connect tool.
3. In the Showcase IBM i Driver logon dialog box, enter your IBM® i user ID and password and click **OK**.

If your logon is successful, your user ID appears in parentheses after the data source and your PC is connected to the server.

Troubleshooting Connection Failures

Showcase Query and Showcase Report Writer

- Make sure you entered your password correctly.
- Verify your default data source.

To verify your default data source:

1. Open Showcase Query, and from the Tools menu, choose **Options**.
2. On the Data Source tab, verify your default data source.

TCP/IP

Verify your IP address

Use the Microsoft ODBC Administrator to determine whether your IP address is valid.

- At the MS-DOS prompt, type `PING ipaddress`, where `ipaddress` is the IP address you want to use.

If you receive a reply similar to `Reply from 172.16.1.84: bytes=32 time=84ms TTL=64`, your IP address is valid and the TCP/IP connection is working.

If you receive the message `Request timed out`, your IP address may be incorrect or TCP/IP may not be configured correctly on either your PC or the server.

For more information, see Chapter 6.

Verify your library port number

1. At the IBM® i command line, type `WRKSRVTBLE` and press Enter.
2. In the `Port` column, look for the port number you want to use.

The port's service entry should be `SCSERVER serverlib`, where `serverlib` is the name of the server library. If you do not find the port, look for the correct library name under `Service` and check the correct port number for that library.

Verify that IBM's TCP/IP is active on your IBM i

1. At the IBM i command line, type `WRKACTJOB JOB(QTCPIP)` and press Enter.
2. If you cannot find the job, type `STRTCP` and press Enter to start TCP/IP on the server.

For more information on starting and stopping TCP/IP, see the *Showcase 9 Administrator's Guide*.

For more information on TCP/IP problems, see the TCP/IP documentation provided with IBM i.

Verify that the TCP/IP master job has started on the server

- At the IBM i command line, type `WRKACTJOB JOB(serverlib)`, where `serverlib` is the name of the server library, and press Enter.

There should be an entry in the `subsystem/job` column with the same name as the library in which the server is installed. Use option 5 to work with this job and then option 11 to display the call stack. The program `TCPMASTER` in the library containing the installation should be the first program on the stack (use F11 to change the display until you see the program and library names).

For more information on using TCP/IP with Showcase, see the *Showcase 9 Administrator's Guide*.

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