



**SYSTEMIC
COMPUTER
SERVICES**

Ports used for iSeries Access, FTP, and Remote Printer Ques

The IBM APAR Letter is provided below details how the Client Access (now called iSeries Access) ports are assigned.

The following is a recap of that information.

ftp is only used if you desire to transfer data files between a remote computer and the AS/400.

ftp is port 21

lpd is Line Printer Daemon and allows receiving of print data from an iSeries Remote Out Q or other remote printers.

Ldp is port 515

iSeries Access (Client Access) requires all or many of the following ports. If you do not wish to open up all ports specified, read the APAR below or contact SCS about specific services you may not be planning to use.

Telnet is port 23 (required)

Port Mapper is 449 (required)

Central, other ports normally used are 8470 thru 8476 (not all required)



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APAR#:	II12227
Component:	INFOAS400 - AS/400 Information
Release(s):	R440

Abstract

SERVERS AND PORTS REQUIRED BY ISERIES ACCESS FOR WINDOWS (CLIENT ACCESS EXPRESS FOR WINDOWS)

Error Description

** Last updated on December 6, 2002 **

NOTE: The latest modifications are marked with a "*" in the first column. The changes made on December 6, 2002 were only to the format and not the content.

This information is for all releases of Client Access Express for Windows, now called "iSeries Access for Windows" in V5R2.

The following servers are used by Client Access Express for Windows. In addition to the servers listed, the Port Mapper (Port 449) is also used by all functions. However, if the user changes the Connection properties for an iSeries connection so that "Where to look up Remote Port" is set to "Standard" or "Local," then the Port Mapper will not be used. In addition, if a DNS server is to be accessed, Port 53 should be made available to the client.

NOTE: The port number in parentheses is the one used to connect to the server via SSL (encrypted session). See more notes after the following list of servers.

```

-----
SERVER: Port Mapper
DEFAULT PORT: 449
DESCRIPTION: Port mapper returns the port number
              for the requested server
-----
SERVER: Sign-on
DEFAULT PORT: 8476 (9476)
DESCRIPTION: Sign-on server is used for every Client Access
              connection to authenticate users and to change passwords
-----
SERVER: Central
DEFAULT PORT: 8470 (9470)
DESCRIPTION: Central server is used when a Client Access
              license is required, and also for downloading translation
              tables.
-----
SERVER: Data Queue
DEFAULT PORT: 8472 (9472)
DESCRIPTION: Data Queue server allows access to the AS/400
              data queues, used for passing data between applications.
-----
SERVER: Database
DEFAULT PORT: 8471 (9471)
DESCRIPTION: Database server is used for accessing the
              AS/400 database.
-----
SERVER: Remote Command
DEFAULT PORT: 8475 (9475)
DESCRIPTION: Remote command server is used to send commands
              from a PC to an AS/400 and for program calls
-----
SERVER: File
DEFAULT PORT: 8473 (9473)
DESCRIPTION: File Server is used for accessing
              any part of the AS/400 file system
-----
SERVER: Print
DEFAULT PORT: 8474 (9474)
DESCRIPTION: Printer Server is used to access
              printers known to the AS/400
-----
SERVER: Web Admin
DEFAULT PORT: 2001 (2010)
DESCRIPTION: Used to access web applications
              served by the AS/400
-----
SERVER: DDM
DEFAULT PORT: 446 (448)
DESCRIPTION: DDM server is used to access data
              via DRDA and for record level access
-----
SERVER: Telnet
DEFAULT PORT: 23 (992)
DESCRIPTION: Telnet server is used to access 5250 emulation
-----
SERVER: NetServer
DEFAULT PORT: 137, 138, 139, 8474
DESCRIPTION: AS/400 NetServer allows access to
              AS/400 integrated file system from Windows PCs
-----
SERVER: USF
DEFAULT PORT: 8480
DESCRIPTION: Ultimeia services are used for multimedia data
-----

```

```

SERVER: LDAP
DEFAULT PORT: 389 (636)
DESCRIPTION: Provides a network directory service
-----
SERVER: Mgmt Central
DEFAULT PORT: 5555 (5566) 5544 5577
DESCRIPTION: Management Central server is used
to manage multiple AS/400s in a network (See Note 5)
-----

```

Note 1: Ports 449, 8xxx, and 9xxx can be started with the STRHOSTSVR *ALL command. The others need to be started individually, or can be set to autostart when TCP/IP is started (as can 449, 8xxx, and 9xxx).

Note 2: Although 8474 is listed next to NetServer, it is only used internally so does not have to be set in your firewall IP filtering. However, that server (print server) must be started for NetServer to work properly.

Note 3: If any applications are registered under Application Administration, then the remote command server will be required in addition to what is listed below.

Note 4: Port 5544 is required only on VSRI and later systems and is used for both non-SSL and SSL traffic. Port 5577 is only required for SSL connections between the "central" system and "endpoint" systems.

The following is a list of iSeries Access for Windows functions and which servers are used by those functions:

```

-----
FUNCTION: PC5250 display and printer emulation
SERVERS USED: Sign-on, Central, Telnet
-----
FUNCTION: Data Transfer
SERVERS USED: Sign-on, Central, Database
-----
FUNCTION: Base Operations Navigator Support
SERVERS USED: Sign-on, Remote Command
-----
FUNCTION: All Operations Navigator function
SERVERS USED: Sign-on, Remote Command, File, Print,
Database, Web Admin, Mgmt Central, USF, NetServer,
LDAP, Data Queue
-----
FUNCTION: ODBC
SERVERS USED: Sign-on, Database
-----
FUNCTION: OLE DB
SERVERS USED: Sign-on, Database, DDM, Remote Command,
Data Queue
-----
FUNCTION: AFP Viewer
SERVERS USED: Sign-on, Print
-----
FUNCTION: Client Access Install
SERVERS USED: NetServer
-----
FUNCTION: Incoming Remote Command
SERVERS USED: Uses no specific server, and AS/400
port will vary. PC-side port is 512
-----
FUNCTION: Fax support
SERVERS USED: Sign-on, Print
-----
FUNCTION: Management Central
SERVERS USED:
Required: Mgmt Central, Signon, Remote Command
Optional: Data Queue, File
-----

```

For other applications that use Client Access APIs, the sign-on server will be needed, as well as whatever servers support the specific APIs being used.

DISCLAIMER: This list could potentially change in future releases, or even in service packs. If you find that an additional server is accessed that is not mentioned here, please send a note to LLHIRSCH@us.ibm.com and include "Update to II12227" in the subject line. We will update the chart. Also, be aware that the port numbers listed above are just the default values. System administrators have the ability to map these to different port numbers.

Problem Summary

Problem Conclusion

Temporary Fix

Comments

Information APAR

Circumvention

PTFs Available

Affected Modules

Affected Publications

Summary Information

Status.....	CLOSED CAN
HIPER.....	No
Component.....	
Failing Module.....	
Reported Release.....	R440
Duplicate Of.....	

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