



System i

Connecting to System i

System i Navigator tasks on the Web

Version 6 Release 1





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Note

Before using this information and the product it supports, read the information in "Notices," on page 37 and the manual *IBM eServer Safety Information*, G229-9054.

This edition applies to version 6, release 1, modification 0 of IBM i5/OS licensed program (product number 5761-SS1) and to all subsequent releases and modifications until otherwise indicated in new editions. This version does not run on all reduced instruction set computer (RISC) models nor does it run on CISC models.

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System i Navigator tasks on the Web

Perform a subset of System i[®] Navigator tasks through an Internet Web browser. The interface might look slightly different, but the tasks you can perform are the same.

The following System i Navigator functions are available to work with on the Web:

- | • **System** (System status, System operator messages, History log, Disk status and more.)
- | • **Basic Operations** (Messages, User jobs, Printers, Printer output, and more.)
- | • **Work Management** (Active jobs, Server jobs, Output queues, Subsystems, and more.)
- | • **Network** (TCP/IP configuration, Remote access services, Servers, IP policies, Internet, i5/OS[®] NetServer[™], and more.)
- | • **Configuration and Service** (System values, Time management, Disk status, History log, Change password, and more)
- | • **Integrated Server Administration** (All virtual disks, Remote systems, Domains, and more.)
- | • **Security** (Authorization lists, Cryptographic services key management, Intrusion detection, and more.)
- | • **Users and Groups** (Users, Create users, Groups, and more.)
- | • **Database** (Performance monitors, Health center, Databases, and more.)
- | • **Journal Management** (Journals, Journal receivers, Create a journal, and more.)
- | • **Performance** (Investigate data and collections, and more.)
- | • **File Systems** (Integrated file system, File shares, Create file share, and more.)
- | • **Cluster Resource Services** (Displays the list of nodes, Deletes the cluster, and more.)

Note: To view printer output contents from a Web browser, you need to install the IBM[®] Advanced Function Printing (AFP) Viewer browser plug-in. With the AFP Viewer plug-in you can view AFP and SNA character string (SCS) printer output. To install the plug-in, display the actions for any of the printer output items in a printer output list, and select the **Install AFP Viewer** action. After it is installed, select the **Open** action to view your printer output file contents.

See the following topic, System i Navigator Tasks Available on the Web, to jump to a list of tasks you can perform on the Web.

- | You no longer need to perform any HTTP Server configuration to begin using System i Navigator tasks on the Web. System i Navigator tasks on the Web uses the integrated Web application server, and no longer uses the Websphere system instance. So, you can begin working with System i Navigator tasks on the Web from a Web browser that connects to your System i model. Then, you can gain access to System i Navigator tasks on the Web from the System i Tasks page by visiting the following URL from a Web browser where *hostA* is your System i name:

- | **<http://hostA:2001/webnav/WnServlet?task=home>**

After you connect to System i Navigator tasks on the Web, you can add the Web address of any available System i Navigator function you want to regularly view and work with to your Web browser's list of favorite Web pages. Then, you can access these System i Navigator tasks like you access any of your favorite or bookmarked Web pages.

This information is intended to help you start using System i Navigator tasks on the Web by providing tips on how to set up and configure your system to run securely, and by giving you an overview of the functions available.

What's new for V6R1

Read about changed information for the System i Navigator tasks on the Web topic collection. System i Navigator tasks on the Web allow you to work with System i Navigator functions from an Internet Web browser.

| IBM Systems Director Navigator for i5/OS is a new Web console interface for System i administration where you can work with the Web enabled tasks of System i Navigator. The System i Navigator tasks on the Web which are a set of URL addressable tasks can also be accessed from within the IBM Systems Director Navigator for i5/OS interface. To learn more, see the IBM Systems Director Navigator for i5/OS topic.

| The list displays System i Navigator tasks on the Web that are new in V6R1. For more information about these and other tasks, see: [System i Navigator Tasks Available on the Web](#)

- | • **System**
 - | – appadmin
 - | – appadminprop
- | • **Basic Operations:**
 - | – crtprtshr
 - | – stopprtshr
 - | – prtshrprop
 - | – addprt
 - | – dltprt
- | • **Work Management:**
 - | – stopoutqshr
 - | – dspoutqshr
 - | – crtoutqshr
- | • **Configuration and Service**
 - | – dskunit
 - | – dskloc
 - | – dskpool
 - | – dskpoolgrp
 - | – paritysets
 - | – adddiskunit
 - | – crt dskpool
 - | – movdiskunit
 - | – rmvdiskunit
 - | – startparity
 - | – stopparity
 - | – incdiskunit
 - | – chgparity
 - | – noncfgdsk
 - | – repldiskunit
- | • **Network**
 - | – ipv4ifc
 - | – ipv4rte
 - | – ipv4cnn

- | - ping
- | - hosttable
- | - trcrte
- | - lookuphost
- | - crtipv4
- | - tcpipcfg
- | - tcpipattr
- | - ipv6ifc
- | - ipv6rte
- | - ipv6cnn
- | - crtipv6
- | - lines
- | - lineprop
- | - linecfgipv6
- | - newline
- | - orgcnnprf
- | - rcvcnnprf
- | - modem
- | - rassrvs
- | - rcvcnnprfprop
- | - pppcnnprf
- | - attatcnnwiz
- | - dialupcnnwiz
- | - grpaccpol
- | - grpaccpolprop
- | - modemprop
- | - i5acsvr
- | - dnssvr
- | - usrdsvr
- | - svrprop
- | - dnscfg
- | - dnskeys
- | - usrdefnwsrv
- | - pckrule
- | - actpckrule
- | - deacpckrule
- | - edtpckrule
- | - crtvpncnn
- | - startvpnsvr
- | - stopvpnsvr
- | - vpnsrvjobs
- | - vpnsrvtrc
- | - vpmigrflt
- | - vpcnnord
- | - vpndefaults

- | - vpnprop
- | - keyexpolprop
- | - datapolprop
- | - keyexpol
- | - datapol
- | - dtapoolprop
- | - srvpoolprop
- | - datapool
- | - srvpool
- | - mancnnprop
- | - dynkeyprop
- | - securecnn
- | - startqos
- | - stopqos
- | - startqoscol
- | - stopqoscol
- | - qosmonitor
- | - qoscfg
- | - qosrvlog
- | - intsetup
- | • **Database**
- | - db.pref
- | • **Users and Groups**
- | - usr
- | - crtusr
- | - dltusr
- | - usrprop
- | - grp
- | - crtgrp
- | - dltgrp
- | - grpprop
- | • **Journal Management**
- | - jrn
- | - jrnrvc
- | - cdb
- | - libraries
- | - library
- | - sellib
- | - crtjrn
- | - crtjrncv
- | • **File Systems**
- | - ifs
- | - crtifsflr
- | - dltifs
- | - rnmifs

- | - cpyifs
- | - movifs
- | - ifsprop
- | - crtudfs
- | - mountudfs
- | - unmountudfs
- | - ifschkout
- | - ifschkin
- | - dynmountinf
- | - colattrinfo
- | - dspattrinfo
- | - newexpnfs
- | - rmvexpnfs
- | - mountnfs
- | - unmountnfs
- | • **Integrated Server Administration**
- | - nws
- | - nwsprop
- | - startnws
- | - startnwsopt
- | - stopnws
- | - restartnws
- | - nwssts
- | - runcmdnws
- | - syncnws
- | - vrtask
- | - nwsvrtask
- | - vrtaskprop
- | - crtvrtdsk
- | - addlnkvrtdsk
- | - rmvlnkvrtdsk
- | - dlvrtdsk
- | - nwsh
- | - nwshprop
- | - crtnwsh
- | - startnwsh
- | - stopnwsh
- | - dltnwsh
- | - rmtsys
- | - rmtsysprop
- | - crtrmtsys
- | - rmtsyssts
- | - dltrmtsys
- | - srvprc
- | - srvprcprop

- | - crtsrvprc
- | - inzsrvprc
- | - dltsrvprc
- | - cnnsec
- | - cnnsecprop
- | - crtcnnsec
- | - dltcnnsec
- | - enrdsn
- | • **NetServer**
- | - netsvrress
- | - netsvrdisusr
- | - netsvrstat
- | - netsvrprop
- | - filshr
- | - filshrprop
- | - crtfilshr
- | - stopfilshr
- | - crtprtshr
- | - prtshrprop
- | - stopprtshr
- | - crtoutqshr
- | - outqshrprop
- | - stopoutqshr
- | • **Performance**
- | - perf.dsksts
- | - perf.actjob
- | - perf.mngcol
- | - perf.lstprs
- | - perf.syssts
- | - perf.cs.pmlink
- | • **Security**
- | - ids
- | - idsprop
- | - idsevt
- | - idsplc
- | - crpsrv
- | - mstkey
- | - keystore
- | - chgaut
- | - autl
- | - crtautl
- | • **Cluster Resource Services**
- | - clu.nod
- | - clu.swtdata
- | - clu.swtapps



- | - clu.swtdev
- | - clu.peer
- | - clu.admdmn
- | - clu.permissions
- | - clu.crtclu
- | - clu.addnod
- | - clu.addclu
- | - clu.dltclu
- | - clu.endclu
- | - clu.dspclu
- | - clu.cluprop
- | - clu.clulog
- | - clu.chgaut
- | - clu.addprd
- | - clu.addhta
- | - clu.adddev
- | - clu.addpeer
- | - clu.addadm

| **Note:** If you want to work with clusters to set up a High Availability environment, you need to install IBM System i High Availability Solutions Manager licensed program on each System i model that participates in the High Availability environment.

- | • **General System i Navigator Tasks**
- | - logfiles

How to see what's new or changed

To help you see where technical changes have been made, this information uses:

- The  image to mark where new or changed information begins.
- The  image to mark where new or changed information ends.

In PDF files, you might see revision bars (|) in the left margin of new and changed information.

To find other information about what's new or changed this release, see the Memo to Users.

PDF file for System i Navigator tasks on the Web

You can view and print a PDF file of System i Navigator tasks on the Web information.


To view or download the PDF version of this document, select System i Navigator tasks on the Web (about 151 KB).

Saving PDF files

To save a PDF on your workstation for viewing or printing:

1. Right-click the PDF link in your browser.
2. Click the option that saves the PDF locally.
3. Navigate to the directory in which you want to save the PDF.
4. Click **Save**.

Downloading Adobe Acrobat Reader

You need Adobe Acrobat Reader to view or print these PDFs. You can download a copy from the Adobe Web site (www.adobe.com/products/acrobat/readstep.html) .

Setting up System i Navigator tasks on the Web

To work with System i Navigator tasks on the Web, first make sure your HTTP Server Administration instance is running and that you have properly configured security to meet your needs. Also, you can grant and limit access to System i Navigator with Application Administration.

Before you begin working with System i Navigator functions from an Internet Web browser, you need to make sure that the System i Tasks page on the 2001 port is active, and that you have set up security to meet your needs.

Related concepts

“Working with System i Navigator tasks on the Web” on page 13

Working with System i Navigator Tasks from a Web browser helps you access a subset of System i Navigator functions available on the Web. The functions are the same as available on the installed PC client, but have some differences in navigating and performing actions on the Web.

Prerequisites for setting up System i Navigator tasks on the Web

This topic provides information on starting the Administration instance. The Administration instance of the HTTP Server must be running on your system in order to connect to the System i Navigator tasks on the Web interface.

About this task

Before you begin working with System i Navigator functions from an Internet Web browser, the Administration instance of the HTTP Server must be running on your system. Check to see if you can connect to the 2001 port by visiting the following URL from a Web browser, where *hostA* is the system name:

`http://hostA:2001/webnav/WnServlet?task=home`

If you can connect to the 2001 port on your system and view the System i Tasks page, then the Administration instance is already running and you can begin configuring security.

If you cannot connect to the 2001 port, start the HTTP Server Administration instance on your system by performing the following steps:

To start the HTTP Server Administration instance, follow these steps:

1. In System i Navigator, expand **My Connections** and expand your system.
2. Expand **Network** → **Servers** → **TCP/IP** and right-click **HTTP Administration**.
3. Click **Start**.
4. Open a Web browser, and confirm that the Administration instance is running by visiting **`http://hostA:2001`**, where *hostA* is the name of your system.

Results

Note: You can also use the CL command, `STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)`, to start the HTTP Server Administration instance.

Related tasks

“Configuring security for System i Navigator tasks on the Web” on page 9

If you are accessing the System i Navigator tasks on the Web interface over an external network, such

as the Internet, it is recommended that you connect using a secure HTTP connection. Additionally, if the system hosting the System i Navigator tasks on the Web interface resides outside of a firewall, or if you are managing a secondary system outside of a firewall, it is recommended that you also configure the IBM Toolbox for Java™ to establish secure socket connections for data access.

Configuring security for System i Navigator tasks on the Web

If you are accessing the System i Navigator tasks on the Web interface over an external network, such as the Internet, it is recommended that you connect using a secure HTTP connection. Additionally, if the system hosting the System i Navigator tasks on the Web interface resides outside of a firewall, or if you are managing a secondary system outside of a firewall, it is recommended that you also configure the IBM Toolbox for Java to establish secure socket connections for data access.

About this task

It is important to consider the security configuration needed to adequately ensure protection of sensitive data such as user IDs and passwords. The System i Navigator tasks on the Web interface can be configured to require secure connections to not use secure connections, or somewhere in between. By default, the System i Navigator tasks on the Web interface is configured to send warning messages to the user if secure connections are not used. You should evaluate the security needs for your environment and either change the security configuration for the System i Navigator tasks on the Web interface, or configure secure connections.

The kinds of Secure Socket Layer (SSL) connections that you need to consider configuring to run System i Navigator tasks on the Web securely:

1. The first type of SSL connection is used in a connection between a Web browser and the System i model that is hosting System i Navigator tasks on the Web.
2. The second type of SSL connection is used by the System i Navigator tasks on the Web interface to retrieve data from the local System i model and any managed secondary systems.

Results

By default, System i Navigator tasks on the Web is configured to warn users if SSL is not used for all connections. You should evaluate your security requirements, and do one or both of the following:

- Configure and use one or both kinds of SSL connections.
- Change the System i Navigator tasks on the Web configuration parameters to treat nonsecure connections differently. Options include making SSL connections required, not required, not used, or give a warning.

See the following topics for more information about each type of connection and options for using them:

Related tasks

“Prerequisites for setting up System i Navigator tasks on the Web” on page 8

This topic provides information on starting the Administration instance. The Administration instance of the HTTP Server must be running on your system in order to connect to the System i Navigator tasks on the Web interface.

Configuring Web browser connections to System i Navigator tasks on the Web

Ensure that System i Navigator tasks on the Web is configured with the desired behavior for handling SSL or non-secure connections from browsers. Also, if you want to allow or require browser communications to run across a secure connection, you need to configure SSL for the Administration instance of the HTTP Server.

If you do not use secure connections from Internet Web browsers to the System i Navigator tasks on the Web interface, your i5/OS userID and password could be easily accessed by someone else on the network. If an external network, such as the Internet, can be used for browser connections to the System i

Navigator tasks on the Web interface, you should use SSL. If you want to allow secure connections from Internet Web browsers to the System i Navigator tasks on the Web interface, you need to set up SSL for the Administration instance of the HTTP Server.

Configuring how System i Navigator tasks on the Web handles HTTP SSL connections

System i Navigator tasks on the Web gives you the ability to require SSL connections from Internet Web browsers to the HTTP Server, or gives you the option to warn users if an SSL connection is not used. If your system is connected to the Internet, it is recommended that you use SSL. In this case, you might want to just warn users if an SSL connection is not used, or require all browsers to use secure connections. If you are behind a firewall, you might choose to run without SSL. In this case, you can turn off the SSL warnings displayed and the SSL checking performed by the System i Navigator tasks on the Web user interface. If you want System i Navigator tasks on the Web to do something other than warn users if SSL connections are not used by Internet Web browsers, you need to modify the System i Navigator tasks configuration.

To configure how System i Navigator tasks on the Web handles HTTP SSL connections, follow these steps:

1. Click System i Navigator Tasks Configuration page from the System i Navigator tasks on the Web home page (task=home).
2. Select the desired SSL usage for browser connection on the Configuration window, and then click **OK**

Use the following values to change how SSL is used:

Warning:

This is the default setting. The System i Navigator tasks on the Web interface determines if SSL is being used during the current session. If not, it displays a warning message for several seconds, but it still allows the user to connect. If SSL has been used by the browser for the connection to the ADMIN server, no warning is displayed.

Required:

The System i Navigator tasks on the Web interface determines if SSL is being used during the current session. If not, it denies the user access to the application.

Not required:

Both secure and nonsecure connections to the System i Navigator tasks on the Web interface are accepted. The application does not check to see if SSL is being used during the current session.

Related tasks

Configuring SSL for ADMIN wizard

Configuring data-retrieval connections to the local system and managed secondary systems

Any time System i Navigator tasks on the Web retrieves data from i5/OS, either on the local System i model or any managed secondary systems, the IBM Toolbox for Java is used to create a socket connection for data retrieval.

System i Navigator tasks on the Web works with the IBM Toolbox for Java to establish connections for communicating between i5/OS and the System i Navigator tasks on the Web interface. These connections are used to access data on the local System i model, as well as any managed secondary systems. If the local system running the System i Navigator tasks on the Web interface is not behind a firewall, or if any managed secondary systems you want to access are not behind a firewall, you should configure and use SSL for your IBM Toolbox for Java connections to establish a secure socket connection. Also, ensure that System i Navigator tasks on the Web is configured with the desired behavior for creating and using SSL or non-secure IBM Toolbox for Java connections.

Configure how System i Navigator tasks on the Web uses SSL connections with the IBM Toolbox for Java

System i Navigator tasks on the Web gives you the ability to require SSL connections for communicating between the System i Navigator tasks on the Web interface and i5/OS to attempt to use SSL if possible, to not use SSL, and to warn users if SSL is not used. The configuration of your network determines which setting is right for you. These connections are only used to send data between the System i Navigator tasks on the Web application and i5/OS on the local and any managed secondary systems. If your local System i model and any managed secondary System i models are behind a firewall, you might choose to not use SSL connections. If you are in a mixed environment with some managed secondary systems behind a firewall and some not, you might want to attempt SSL connections if possible.

If you want System i Navigator tasks on the Web to do something other than always attempt to make SSL connections and warn users if SSL connections are not used, you need to modify the System i Navigator task configuration. To modify the System i Navigator task configuration, follow these steps:

1. Click the System i Navigator Tasks Configuration page from, <http://hostA:2001/webnav/WnServlet?task=home>, the System i Navigator tasks on the Web home page.
2. Select the desired SSL usage for backend system connection setting and then click **OK**.

Note: You can also directly go to <http://hostA:2001/webnav/WnServlet?task=config> to modify the System i Navigator task configuration.

Use the following values to change how SSL is used:

Warning:

This is the default setting. System i Navigator tasks on the Web uses the IBM Toolbox for Java to establish a secure socket connection. If a secure connection is established, no warning message is displayed. If a secure connection cannot be made, a warning message appears for several seconds, but it still allows the user to connect. This setting displays one warning per session per managed system that a user connects to. A user must log out and log back in to see the warning message again.

Required:

System i Navigator tasks on the Web uses the IBM Toolbox for Java to establish a secure socket connection. If a secure connection is established, no warning message is displayed. If a secure connection cannot be made, an error message appears and the connection is denied. The user cannot continue with the requested task.

Attempt:

No warning message is displayed, but System i Navigator tasks on the Web will still attempt to establish a secure socket connection using the IBM Toolbox for Java. If a secure connection cannot be established, a nonsecure connection is made.

Not used:

A secure connection is not used and System i Navigator tasks on the Web does not attempt to establish a secure socket connection using the IBM Toolbox for Java. A nonsecure connection is made.

If you make changes to the configuration page, you need to end and restart the integrated Web application server in order for your changes to take effect.

The integrated Web application server is controlled by the HTTP Administration Server. You can stop and restart the HTTP Administration Server by performing the following steps from System i Navigator:

1. In System i Navigator, expand **My Connections** and expand your system.
2. Expand **Network** → **Servers** → **TCP/IP** and right-click **HTTP Administration**.
3. Click **Stop**.

4. Wait for the status of the HTTP Administration Server in the TCP/IP Servers list to change to Stopped. You need to click **Refresh** one or more times to show the changed status.
5. In System i Navigator, right-click **HTTP Administration**.
6. Click **Start** to restart the HTTP Administration Server.
7. Open the Web browser, and confirm that the Administration instance is running by visiting **http://hostA:2001**, where **hostA** is the name of your system.

Note: You can also use the CL command, `ENDTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)`, to stop the HTTP Administration Server and the CL command, `STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)`, to restart it.

Related tasks

Configure the JavaToolbox to establish a secure socket connection

Configuring Application Administration

Use Application Administration to grant and limit user access to the System i Navigator tasks on the Web application, and control access to systems managed from the Web interface. By default, only users with All Object (*ALLOBJ) special authority can access the System i Navigator tasks on the Web application or manage this System i model through a Web task.

About this task

You can grant and limit access to System i Navigator tasks on the Web with Application Administration from a Web browser by entering the following URL, where *hostA* is your System i name:

http://hostA:2001/webnav/WnServlet?task=appadmin

Alternatively, you can also grant and limit access to System i Navigator tasks on the Web with Application Administration by following these steps from the installed PC client:

1. In System i Navigator, expand **My Connections**.
2. Right-click your system and select **Application Administration** → **Local Settings**.
3. Select the **Host Applications** tab and expand **System i Navigator tasks on the Web**.

Results

Under System i Navigator tasks on the Web, you can grant or limit access for the following:

Manage System Through Web Interface

Specifies that this system can be managed through any System i Navigator task performed from the Web, regardless of which system is hosting the System i Navigator tasks on the Web application. The default is set to All Object Access.

Use of System i Navigator Web Interface

Specifies to grant or limit access to the System i Navigator Web application. The default is set to All Object Access.

Configure System i Navigator Web Interface

Specifies to grant or limit access to the System i Navigator Web configuration (task=config, or click **Configuration** on the home page). The default is set to All Object Access.

The Application Administration information has details about how to grant and limit user access to System i Navigator functions.

Related concepts

Application Administration

Working with System i Navigator tasks on the Web

Working with System i Navigator Tasks from a Web browser helps you access a subset of System i Navigator functions available on the Web. The functions are the same as available on the installed PC client, but have some differences in navigating and performing actions on the Web.

After you set up System i Navigator tasks on the Web, you can begin working with a subset of System i Navigator functions from a Web browser. To begin working with System i Navigator tasks on the web, follow these steps:

1. Click **View All Tasks** from the home page.
2. Specify the system from the tasks page and optionally specify a database and schema if you want to use database objects.
3. Click **OK** to open the tasks page.
4. Select the tab associated with the category you want to work with from the tasks page.
5. Click the on list or action you want to work with.

After you create the URL, you can add it to your Web browser's list of favorites and access this System i Navigator task like you access any of your favorite Web pages. To add a System i Navigator task to the list of favorites, follow these steps:

1. Click **Create Favorites...** from the Home page, and a wizard generates an HTML file that contains all the System i Navigator tasks for your System i model.
2. Click **Save Favorites HTML** at the end of the wizard. You can, then, store the HTML file in the directory of your choice.

You can import this file into your Web browser to create a list of favorites for every System i Navigator task on the Web. To import a file in Internet Explorer, follow this step:

1. Select **File --> Import and Export**, and then follow the wizard's instructions.

If you are familiar with System i Navigator, then you will recognize that the functions available to work with on the web are the same functions available on the installed PC client. While the function is the same, there are differences between navigating and performing actions on the Web, and navigating and performing actions on the installed PC client.

If you want more information about the System i Navigator functions available on the Web, see the following information center topics:

Basic operations

- Messages
- Working with printer output
- Jobs

Work management

- Managing jobs and threads
- Managing output queues
- Managing subsystems

| Networking

- TCP/IP servers

| Application administration

- Setting up application administration

Configuration and service

- System values
- Time management

| **Security**

- Cryptography
- Intrusion detection
- Planning and setting up system security > Planning your security strategy > Planning resource security > Planning authorization lists

Database

You can access the following database objects and most of their associated System i Navigator database functions using the Web interface:

- Schemas
- Tables
- Table partitions
- Aliases
- Indexes
- Journals
- Journal receivers
- Sequences
- Distinct types
- Functions
- Packages
- SQL procedures
- Triggers
- Constraints

| **Performance**

- IBM i5/OS disk watcher
- IBM i5/OS job watcher

| **Journal management**

- Setting up journaling
- Managing journals

| **Files and file systems**

- Integrated file system
- File shares

| **Users and groups**

- User and group tasks

| **Integrated server administration**

- iSCSI attached System x™ and blade systems

Related concepts

“Setting up System i Navigator tasks on the Web” on page 8

To work with System i Navigator tasks on the Web, first make sure your HTTP Server Administration

instance is running and that you have properly configured security to meet your needs. Also, you can grant and limit access to System i Navigator with Application Administration.

“Working with System i Navigator lists on the Web” on page 35

Although you can work with the same function on the Web as you can on the installed client, the interface used to work with System i Navigator tasks on the Web is different from the interface on the installed client.

Basic system operations

This topic collection introduces some of the key concepts and tasks required for System i basic operations. Many of these topics provide an introduction and example, and then suggest further resources for more detailed or advanced information.

Work management

Work management is an important building block within the i5/OS® operating system. Its functions are the foundation through which all work enters the system, is processed, run, and completed on System i™ Navigator products.

Networking

Learn how to connect your business to the Internet, configure e-mail, and serve multimedia objects to Web browser clients. You can integrate file and print services, user profile management, and network operations. Find information about the Windows® server that can be integrated into the system, and read about security offerings that can help protect your resources.

System Values

System values are pieces of information that affect the system operating environment. System values are not objects on the system. Rather, system values contain control information for the operation of certain parts of the system.

Time Management

Within the time management component of System i™ Navigator, you can work with the time zone and time adjustment functions. With these functions, you can choose a time zone for your system to use and adjust the system time.

Database administration

DB2® for i5/OS® provides various methods for setting up and managing databases.

Application Administration

Application Administration is an optionally installable component of System i™ Navigator. Administrators can use Application Administration to control the functions and applications available to users and groups on a specific system.

Planning authorization lists

You can group objects with similar security requirements by using an authorization list.

Cryptography

IBM® offers several i5/OS® cryptography solutions. A comprehensive cryptography solution is an important part of a successful security strategy. IBM offers both software cryptography and a family of cryptographic hardware options for protecting data and for securing transaction processing.

Intrusion detection

The intrusion detection and prevention system (IDS) notifies you of attempts to hack into, disrupt, or deny service to the system. IDS also monitors for potential extrusions, where your system might be used as the source of the attack. These potential intrusions and extrusions are logged as intrusion monitor audit records in the security audit journal and displayed as intrusion events in the Intrusion Detection System graphical user interface (GUI). You can configure IDS to prevent intrusions and extrusions from occurring.

Performance

Monitoring and managing your system's performance is critical to ensure you are keeping pace with the changing demands of your business.

IBM Systems Director Navigator for i5/OS

IBM® Systems Director Navigator for i5/OS® is a Web console interface for System i™ administration

where you can work with the web enabled tasks of System i Navigator. IBM Systems Director Navigator for i5/OS includes a number of welcome pages that allow you to quickly find the task that you want to perform.

Integrated file system

The integrated file system is a part of the i5/OS® operating system that supports stream input/output and storage management similar to personal computer and UNIX® operating systems, while providing you with an integrating structure over all information stored in the system.

File shares

An i5/OS® NetServer™ file share is a directory path that i5/OS NetServer shares with clients on the network.

System i integration with BladeCenter and System x

An integrated server is a combination of integrated server hardware, network components, virtual disks, shared devices, and i5/OS integrated server configuration objects.

Related tasks

Journal management

Journal management provides a means by which you can record the activity of objects on your system. When you use journal management, you create an object called a journal. The journal records the activities of the objects you specify in the form of journal entries. The journal writes the journal entries in another object called a journal receiver.

Related reference

“System i Navigator URL parameters and available Web tasks”

The predefined URL parameters and URL abbreviations for the available Web tasks help you create unique URLs to work with different System i Navigator Web tasks.

System i Navigator tasks on the Web reference information

While the tasks you work with from the web are the same tasks you can perform within the System i Navigator client application, the interfaces are slightly different. This topic provides information about how the predefined URL parameters and URL abbreviations can help you use the System i Navigator tasks on the Web interface more efficiently, and how you can perform actions on System i Navigator functions from the Web.

System i Navigator URL parameters and available Web tasks

- | The predefined URL parameters and URL abbreviations for the available Web tasks help you create
- | unique URLs to work with different System i Navigator Web tasks.

Each System i Navigator task that you work with has its own unique URL that displays in your Internet browser’s Address field. Each URL is created by following a predefined set of conventions that includes the host system name, the port, the application name, and the name of the task you want to work with.

URL parameters

Parameter name	Parameter ID	Description	Example
Task	task	The URL task you want to perform	If you wanted to work with active jobs on hostA: http://hostA:2001/webnav/WnServlet? task=actjob
System	&system	Specifies the system you want to manage. This parameter is optional, and needs to be specified only if you want to work with tasks on a secondary host.	If you want to use System i Navigator tasks on the Web on hostA but work with active jobs on hostB: http://hostA:2001/webnav/WnServlet? task=actjob& system=hostB

Parameter name	Parameter ID	Description	Example
User	&user	Allows you to specify a different user ID if you are working on a secondary host system.	If you want to use a different user ID on a secondary host system: http://hostA:2001/webnav/WnServlet? task=actjob&system=hostB*&user=userB
Filter and sort	&filter and sort	You can specify to allow or cancel both filter and sort on a selected task	If you want to turn off the capability to filter and sort: http://hostA:2001/webnav/WnServlet? task=actjob&filter-allowed=false*&sort-allowed=false
Table size	&table-size	Specifies the number of items per page you want to display in an online table	If you want to change the number of active jobs displayed per page from 20 to 100: http://hostA:2001/webnav/WnServlet? task=actjob&table-size=100
Column sorting	&column-sort=x-A/D Where x = column ID. A=Ascending D=Descending	Allows you to pre-sort an System i Navigator list.	For example, you may want to display the list of active jobs sorted by CPU% in descending order. This allows you to quickly see which jobs are using the most CPU. The parameters on your URL would look like this: &task=actjob&column-sort=8-D. To view the column IDs for a specific list, display the list on the web, then select the Columns action for the list and click the Show Column IDs to show the ID for each column.
Single TaskMode	&WnSTM	Specifies whether or not a new URL request in the same browser session closes the previous request automatically. The Default setting is WnSTM=True	If you want to use a Web browser that shares the same session (e.g., Netscape), this parameter must be set to false to launch more than one task at a time: http://hostA:2001/webnav/WnServlet? task=actjob&WnSTM=false

System i Navigator tasks available on the Web

The System i Navigator tasks home page is a starting place if you are just learning how to use these tasks on the web. From the home page, you can:

- View all available System i Navigator tasks
- Start a wizard to help select the desired System i Navigator task
- Create the html for favorites for all of the System i Navigator tasks
- Change configuration settings
- Learn more about System i Navigator tasks on the web by linking to the i5/OS Information Center

With the Trace Levels page, you can customize your log file and adjust the trace levels. Use the User preferences page to select default values for System i Navigator tasks.

The task abbreviations that are used in the URLs below are similar to the i5/OS commands. The following table shows the URL abbreviations for the System i Navigator tasks that are available on the Web.

General System i Navigator tasks		
Name of task	Task ID (task=xxxx)	Additional parameters
Home page	home	
View all tasks	list	system=system name, userid=user id dbname=database name schema=schema name

General System i Navigator tasks		
Name of task	Task ID (task=xxxx)	Additional parameters
Trace levels	trace	error, warning, diag, info, comp, level, create, entryExit, perf. (Each parameter supported for the trace task can have a value of true or false, for example, ... task=trace&info=true&diag=false.)
System i Navigator Tasks Home Page	home	
User preferences	pref	
Configuration options	config	
View log files	logfiles	
Work with jobs	wrkjobs	
Work with messages	wrkmsgs	
Work with printer output	wrkprtout	

System		
Name of task	Task ID (task=xxxx)	Additional Parameters
Disk Status	dsksts	
System Status	syssts	
Change password	chgpwd	
Run Command	runcmd	
History log	dsplog	strdate, strtime, enddate, endtime, jobs, msgids
Application Administration (Local and Central Settings)	appadmin	type
Application Administration properties	appadminprop	

Table notes:		
1. Sample parameter values for dsplog task are:		
strdate=*BEGIN, strdate=*CURRENT, strdate=05/25/04		
strtime=*AVAIL, strtime=10:00:00, strtime=15:30:00		
enddate=*END, strdate=*CURRENT, strdate=05/25/04		
endtime=*AVAIL, endtime=10:00:00, endtime=15:30:00		
jobs=*ALL, jobs=QPADEV0006, jobs=QPADEV0006,QPADEV0004		
jobs=TLK/QDFTJOB, jobs=145678/TLK/QDFTJOB		
jobs=145678/TLK/QDFTJOB,222555/TLK/QPADEV0007		
msgids=*ALL, msgids=CPF3345, msgids=CPF1124, CPF1164		
2. Sample parameter for appadmin task are:		
type=central, type=local		

Basic Operations		
Name of task	Task ID (task=xxxx)	Additional Parameters
Messages	msg	msgq, severity, type, foruser
Send a Message	sndmsg	
QSYSMSG Messages	qsysmsg	severity, type

Basic Operations		
Name of task	Task ID (task=xxxx)	Additional Parameters
System Operator Messages	sysoprmsg	severity, type
Printer Output	prtout	printer, outq (1), users (3) form, userdata, job, jobsystem, created (8), fromdate, fromtime, todate, totime, status (7)
Hold printer output	hldprtout	file, job, splnbr, jobsysname, crtdate, crttime (5)
Release printer output	rlsprtout	file, job, splnbr, jobsysname, crtdate, crttime (5)
Display printer output	dspprtout	file, job, splnbr, jobsysname, crtdate, crttime (5)
l Move printer output	movprtout	file, job, splnbr, jobsysname, crtdate, crttime (5)
l Delete printer output	dltprtout	file, job, splnbr, jobsysname, crtdate, crttime (5)
Printer output properties	prtoutprop	file, job, splnbr, jobsysname, crtdate, crttime (5)
Convert printer output to PDF	cnvprtout	file, job, splnbr, jobsysname, crtdate, crttime (5)
Reply to a message for printer output	rpyprtout	file, job, splnbr, jobsysname, crtdate, crttime (5)
Printers	prt	printer (4)
l Add a printer	addprt	prompt, addr, url, dns, ipds, rmtoutq (9)
l Delete a printer	dltprt	printer
l Create a printer share	crtprtshr	
l Printer share properties	prtshrprop	printer, shrname
l Stop sharing a printer	stopprtshr	printer, shrname
Hold a printer	hldprt	printer
Release a printer	rlsprt	printer
Start a printer	startprt	printer
Stop a printer	stopprt	printer
Restart a printer	restartprt	printer
Printer Properties	prtprop	printer
Make a printer available	availprt	printer
Make a printer unavailable	unavailprt	printer
Display printer output for a printer	openprt	printer
Reply to a message for a printer	rpyprt	printer
User Jobs	usrjob	jobname, jobuser, jobnbr, type (2), status (6), jobq
Run command	runcmd	

Basic Operations		
Name of task	Task ID (task=xxxx)	Additional Parameters
Table notes:		
<ol style="list-style-type: none"> You must enter the outq value as library/queue. Example: outq=qursys/qezjoblog. Valid types for the user jobs list are: A (Autostart), B (Batch), I (Interactive), M (Subsystem), R (Reader), S (System), W (Writer), X (SCPF System), and * (All) It is *current, *all, or up to 20 individual users separated by commas It is an individual printer name, or a wild card (name*) The crtdate format is YYYYMMDD and the crttime format is HHMMSS. The valid values for the statu" parameter for task=usrjob are: *ALL, *ACTIVE, *JOBQ, *OUTQ The valid values for the status parameter for task=prtout are: The valid values for the created parameter are: *ALL, and *SPECIFIC. If *SPECIFIC is specified, the fromdate, todate, fromtime, and totime values are retrieved. The fromdate and todate format is YYYYMMDD. The fromtime and totime format is HHMMSS. <ul style="list-style-type: none"> MSGW Message waiting HLD Held CLO Not ready DFR Deferred SND Sending OPN Being created RDY Ready to print PND Preparing to print WTR Sending to printer PRT Sent to printer FIN Finished printing SAV Printed and kept *ALL All Valid values for addprt task parameters are described in Table 1. 		
<p>Note: To view printer output contents from a web browser, you need to install the IBM Advanced Function Printing (AFP) Viewer browser plug-in. With the AFP Viewer plug-in you can view AFP and SNA character string (SCS) printer output. To install the plug-in, display the actions for any of the printer output items in a printer output list, and select the Install AFP Viewer action. After it is installed, select the Open action to view your printer output file contents.</p>		

Table 1. Valid values for **addprt** task parameters

Parameter	Description	Possible values
prompt	Display prompt panels	yes, no (Default to yes)
addr	TCP/IP address of printer	Valid TCP/IP address
url	URL	Valid URL
dns	DNS printer name	Valid DNS name
ipds	Printer is capable of printing IPDS	yes, no (Default to no)
rmtoutq	Configure printer as remote output queue	yes, no (Default to no)

Work Management		
Name of task	Task ID (task=xxxx)	Additional Parameters
Active Jobs	actjob	jobname, jobuser, jobnbr, curuser, subsystem, type (1)
Server Jobs	svrjob	jobname, jobuser, jobnbr, status (3), curuser
Delete a job	dltjob	job jobNbr/jobUser/jobName
Job Properties	jobprop	job jobNbr/jobUser/jobName
Display job log for a job	joblog	job jobNbr/jobUser/jobName
Display locked objects for a job	lockobj	job jobNbr/jobUser/jobName
Display call stack for a job	callstack	job jobNbr/jobUser/jobName
Display open files for a job	openfiles	job jobNbr/jobUser/jobName
Display library list for a job	liblist	job jobNbr/jobUser/jobName
Display performance statistics for a job	perfstats	job jobNbr/jobUser/jobName
Display threads for a job	threads	job
Hold a job	hldjob	job jobNbr/jobUser/jobName
Release a job	rlsjob	job jobNbr/jobUser/jobName
Move a job	movjob	job job=jobNbr/jobUser/jobName
Work with a job	wrkjob	job jobNbr/jobUser/jobName
Active Subsystems	sbs	
Active Job Queues	actjobq	
All Job Queues	alljobq	jobq (2)
Hold a job queue	hldjobq	jobq
Release a job queue	rlsjobq	jobq
Clear a job queue	clrjobq	jobq
Output Queues	outq	outq (4)
Create a share for an output queue	crtoutqshr	outq
Output queue share properties	outqshrprop	outq, shrname
Stop sharing an output queue	stopoutqshr	outq, shrname
Hold an output queue	hldoutq	outq (5)
Release an output queue	rlsoutq	outq (5)
Clear an output queue	clroutq	outq (5)
Active Memory™ Pools	actpool	
Shared Memory Pools	shrpool	

Table Notes:

1. Valid types for the active jobs list are A (Autostart), B (Batch), C (Communications), I (Interactive), P (Prestart), M (Subsystem), R (Reader), S (System), W (Writer), and * (All)
2. The jobq value must be entered as library/queue, for example, jobq=tlk/tlkjobq, jobq=*all/t*.
3. Valid values for the status parameter are *ALL, *ACTIVE, *OUTQ.
4. The outq value for the outq task must be entered as library/queue, for example, outq=quersys/qezjoblog. Also, a wildcard value can be entered for the queue name, for example, outq=*ALL/s* to show all output queues that start with the letter s.
5. The outq value must be entered as library/queue, for example, outq=quersys/qezjoblog.

Configuration and Service		
Name of task	Task ID (task=xxxx)	Additional Parameters
System Values	sysval	
Time Management	timemgmt	
Lists disk units	dskunit	
Lists frame /units	dskloc	
Lists disk pools	dskpool	
Lists disk pool groups	dskpoolgrp	
Lists parity sets	paritysets	
Add Disk Unit	adddiskunit	
New Disk Pool	crtdskpool	
Move disk units	movdiskunit	
Remove disk units	rmvdskunit	
Start parity	startparity	
Stop parity	stopparity	
Include disk unit in a parity set	incdiskunit	
Change parity set optimization	chgparity	
Replace disk unit	repldiskunit	
Nonconfigured disk units	noncfgdsk	
<p>Table Notes:</p> <ol style="list-style-type: none"> The Install Disk Unit task is removed from the Web but can be performed from the installed PC client. The sample parameter values for dsplog task are: <ul style="list-style-type: none"> strdate=*BEGIN, strdate=*CURRENT, strdate=20040525 strtime=*AVAIL, strtime=100000, strtime=153000 enddate=*END, strdate=*CURRENT, strdate=20040525 endtime=*AVAIL, endtime=100000, endtime=153000 jobs=*ALL, jobs=QPADEV0006, jobs=QPADEV0006,QPADEV0004 jobs=TLK/QDFTJOB, jobs=145678/TLK/QDFTJOB jobs=145678/TLK/QDFTJOB,222555/TLK/QPADEV0007 msgids=*ALL, msgids=CPF3345, msgids=CPF1124, CPF1164 <p>The strdate format is YYYYMMDD and the strtime format is HHMMSS.</p> <p>The enddate format is YYYYMMDD and the endtime format is HHMMSS.</p>		

Network		
Name of task	Task ID (task=xxxx)	Additional Parameters
TCP/IP Servers	tcpsvr	
Launch the Configure Universal Connection Wizard	ucw	
Display a list of IPv4 interfaces	ipv4ifc	
Display a list of IPv4 routes	ipv4rte	
Display a list of IPv4 connections	ipv4cnn	type= type of connection, lclport= local Port, lcladdr= local address, rmtaddr= remote address, rmtport= remote port

Network		
Name of task	Task ID (task=xxxx)	Additional Parameters
Display the Ping dialog	ping	
Display the Host Table dialog	hosttable	
Display the Trace Route dialog	trcrte	
Display the Look Up Host dialog	lookuphost	
Display New IPv4 Object dialog	crtipv4	type= type of IPv4 object to be created
Display TCP/IP Configuration properties	tcpipcfg	
Display TCP/IP attributes properties	tcpipattr	
Display a list of IPv6 interfaces	ipv6ifc	
Display a list of IPv6 routes	ipv6rte	
Display a list of IPv6 connections	ipv6cnn	type= type of connection, lcladdr= local address, lclport= local Port, rmtaddre= remote address, rmtport= remote port
Display New IPv6 Object dialog	crtipv6	type= type of IPv6 object to be created
Display a list of line descriptions	lines	
Display Line properties	lineprop	
Display Configure Line for IPv6 dialog	linecfgipv6	
Displays New Line Description wizard	newline	
Displays a list of Originator Connection profiles	orgcnnprf	
Displays a list of Receiver Connection profiles	rcvcnnprf	
Displays a list of modems	modem	
Configure Remote Access Services	rassrvs	
Launch the Remote Access Services for Receiver Profiles properties	rcvcnnprfprop	
Launch the Point-to-Point Connection profile setup	pppcnnprf	
Launch the AT Global Network Dial Connection wizard	attatcnnwiz	
Launch the New Dial-up Connection wizard	dialupcnnwiz	
Displays the Group Access Policies list	grpaccpol	
Launch the New Group Policy properties	grpaccpolprop	
Launch the New Modem Properties	modemprop	
Display the TCP/IP servers list	tcpsvr	
Display the System i Access list	i5acsvr	

Network		
Name of task	Task ID (task=xxxx)	Additional Parameters
Display a list of DNS configured servers	dnssvr	
Display the user-defined list	usrdsvr	
Launch the Servers Properties	svrprop	
Launch the New DNS Configuration wizard	dnscfg	
Launch the Management Dynamic Update Keys panel	dnskeys	
Launch the New Server wizard	usrdefnwsrv	
Display a list of Activated rules in the system	pckrule	
Launch the Activate Rules Panel	actpckrule	
Launch the Deactive Rules Panel	deapckrule	
Launch the Packet Rules editor	edtpckrule	
Launch the New Connection Wizard	crtvpcnn	
Start the VPN Server	startvpnsvr	
Stop the VPN Server	stopvpnsvr	
Launch the Server Jobs panel	vpnsrvjobs	
Launch the Virtual Private Networking Trace	vpnsrvtrc	
Launch the Migrate Police Filters wizard	vpnmigfrft	
Launch the Secure Connection Order Panel	vpncnnord	
Launch the Virtual Private Networking Defaults panel	vpndefaults	
Launch the Virtual Private Networking Properties	vpnprop	
Launch New Key Exchange	keyexpolprop	type= type of key exchange to be created
Launch the New Data Policy properties	datapolprop	
Display a list of Internet Key exchange polices	keyexpol	
Display a list of data policies	datapol	
Launch the New Data Endpoint Pool properties	dtapoolprop	
Launch the New Local Service Pool properties	srvpoolprop	
Display the Data Endpoint Pools list	datapool	
Display the Local Service Pools list	srvpool	
Launch the New Manual Connection properties	mancnnprop	
Launch the New Dynamic Key Group properties	dynkeyprop	

Network		
Name of task	Task ID (task=xxxx)	Additional Parameters
Display All connections list	securecnn	
Start QoS server	startqos	
Stop QoS server	stopqos	
Start QoS data collection	startqoscol	
Stop QoS data collection	stopqoscol	
Launch the Quality Of Service Monitor	qosmonitor	
Launch the QoS Server	qoscfg	
Log panel	qosrvlog	
Launch the Internet Setup wizard	intsetup	

Database		
Name of task	Task ID (task=xxxx)	Additional Parameters
Database: Work with all objects in a schema	db.allobj	dbname=database name, schema=schema name
Database: Work with aliases in a schema	db.alias	dbname=database name, schema=schema name
Database: Work with constraints in a schema	db.cst	dbname=database name, schema=schema name
Database: Work with distinct types in a schema	db.typ	dbname=database name, schema=schema name
Database: Work with functions in a schema	db.func	dbname=database name, schema=schema name
Database: Work with indexes in a schema	db.idx	dbname=database name, schema=schema name
Database: Work with journals in a schema	db.jrn	dbname=database name, schema=schema name
Database: Work with journal receivers in a schema	db.jrnrcv	dbname=database name, schema=schema name
Database: Work with SQL procedures in a schema	db.proc	dbname=database name, schema=schema name
Database: Work with sequences in a schema	db.seq	dbname=database name, schema=schema name
Database: Work with SQL packages in a schema	db.pkg	dbname=database name, schema=schema name
Database: Work with tables in a schema	db.tbl	dbname=database name, schema=schema name
Database: Work with triggers in a schema	db.trg	dbname=database name, schema=schema name
Database: Work with views in a schema	db.view	dbname=database name, schema=schema name
Database: Create alias	db.crtalias	dbname=database name, schema=schema name
Database: Create distinct type	db.crttyp	dbname=database name, schema=schema name

Database		
Name of task	Task ID (task=xxxx)	Additional Parameters
Database: Create index	db.crtidx	dbname=database name, schema=schema name
Database: Create schema	db.crtschema	dbname=database name, schema=schema name
Database: Create sequence	db.crtseq	dbname=database name, schema=schema name
Database: Create table	db.crttbl	dbname=database name, schema=schema name
Database: Select which schemas to work with	db.selschema	dbname=database name, schema=schema name
Work with all partitions in a table	db.tblpart	dbname=database name, schema=schema name, tbl=table name
Work with schemas in user list	db.schema	dbname=database name
Work with a list of Databases on the system	db.database	dbname=database name
Work with all indexes for a table	db.tblidx	dbname=database name, schema=schema name, tbl=table name
Work with SQL performance monitors	db.perfmon	dbname=database name
Create a new SQL performance monitor	db.crtmon	dbname=database name
Import data into a table from a text file	db.import	dbname=database name
Export data from a table or view to a text file	db.export	dbname=database name
Work with a list of the objects that have an index advised	db.idxadv	dbname=database name, schema=schema
Database Preferences	db.pref	dbname=database
Work with Health Center	db.health	dbname=database

Users and Groups		
Name of task	Task ID (task=xxxx)	Additional Parameters
Display a list of users	usr	usr, class, status, grpnbr, pwdepires, prevsignon
Create new user	crtusr	usr, baseusr
Delete an existing user	dltusr	usr
User properties	usrprop	usr
Display a list of groups	grp	grp
Create a new group	crtgrp	grp, basegrp
Delete an existing group	dltgrp	grp
Group properties	grpprop	grp

Users and Groups		
Name of task	Task ID (task=xxxx)	Additional Parameters
Table Notes:		
<ul style="list-style-type: none"> Parameters for the usr task are listed in Table 2. Parameters for the grp task are listed in Table 3. 		

Table 2. Parameters for the **usr** task

Parameter	Task ID	Possible values	Examples
usr	usr	<ul style="list-style-type: none"> User profile name Generic name *ALL (default) 	profile=tlk, profile=t*, profile=*all
class	usr	Profile class: <ul style="list-style-type: none"> *SECOFR *SECADM *PGMR *SYSOPR *USER *ALL (default) 	class=*secofr, class=*secadm, class=*all, class=*secofr,*secadm
status	usr	<ul style="list-style-type: none"> *ENABLED *DISABLED *ALL (default) 	status=*enabled, status=*disabled, status=*all
pwdexpires	usr	<ul style="list-style-type: none"> *NONE (default) Date password expires (all profiles whose password expires before this date are shown. Format = YYYYMMDD) 	pwdexpires=*none, pwdexpires=20060201
prevsignon	usr	<ul style="list-style-type: none"> *NONE (default) Previous sign-on date (all users who have not signed on since this date are shown. Format = YYYYMMDD) Previous sign-on date (all users who have signed on since this date are shown. Format = >YYYYMMDD) 	prevsignon=*none, prevsignon=<20050101, prevsignon=>20050101

Table 3. Parameters for the **grp** task

Task ID	Parameter	Description	Possible values
grp	grp	Group name	<ul style="list-style-type: none"> All Specific name Wildcard (ex: t*)

Journal Management		
Name of task	Task ID (task=xxxx)	Additional Parameters
Journal list	jrn	
Journal receiver list	jrnrcv	
Create a journal	crtjrn	
Create journal receiver list	crtjrnrcv	
Database list	cdb	
Library list	libraries	

Journal Management		
Name of task	Task ID (task=xxxx)	Additional Parameters
Objects in library	library	
Select libraries to display	sellib	
Note: Parameter details for the jrn task are listed in Table 4 below.		

Table 4. Parameter details for the jrn task

Parameter	Description	Possible values
name	Journal name	<ul style="list-style-type: none"> All Wild card (ex: t*)
lib	Library	<ul style="list-style-type: none"> All Specific name
diskpool	Disk Pool	<ul style="list-style-type: none"> Number of Auxiliary Storage Pool (ASP) Name of Independent Auxiliary Storage Pool (IASP)

File Systems		
Name of task	Task ID (task=xxxx)	Additional Parameters
Integrated File System	ifs	path, name, datechg, dateacc, datecrt
Create New Folder	crtifslr	path, newflr
Delete Integrated File System Object	dltifs	path
Rename Integrated File System Object	rmifs	path, newname
Copy Integrated File System Object	cpyifs	from, to
Move Integrated File System Object	movifs	from, to
Integrated File System Properties	ifsprop	path
Create UDFS	crtudfs	path, newudfs
Mount UDFS	mountudfs	path, mountdir
Unmount UDFS	unmountudfs	path
Check Out Integrated File System Object	ifschkout	path
Check In Integrated File System Object	ifschkin	path
Display Dynamic Mount Information	dynmountinf	
Collect Folder Attribute Information	colattrinfo	path
Display Folder Attribute Information	dspattrinfo	path
Export NFS	newexpnfs	path
Remove NFS Export	rmvexpnfs	path
Mount NFS	mountnfs	path
Unmount NFS	unmountnfs	path
File shares	filshr	
File share properties	filshrprop	shrname
Create a file share	crtfilshr	
Stop a file share	stopfilshr	shrname

File Systems		
Name of task	Task ID (task=xxxx)	Additional Parameters
Check Out Integrated File System Object	ifschkout	path=/home/folder, path=/home/folder/file.txt
Check In Integrated File System Object	ifschkin	path=/home/folder, path=/home/folder/file.txt
Display Dynamic Mount Information	dynmountinf	
Collect Folder Attribute Information	colattrinfo	path=/home/folder
Display Folder Attribute Information	dspattrinfo	path=/home/folder
Export NFS	newexpnfs	path=/home/folder
Remove NFS Export	rmvexpnfs	path=/home/folder
Mount NFS	mountnfs	path=/home/folder
Unmount NFS	unmountnfs	path=/home/folder
Table Notes:		
<ul style="list-style-type: none"> Task parameter details for the ifs task are listed in Table 5. For task=ifs, if a QSYS.LIB path is specified, dateacc is ignored because this is not valid for QSYS objects. 		

Table 5. Task parameter details for the ifs task

Task ID	Parameter	Possible values	Examples
ifs	path (optional)	<ul style="list-style-type: none"> Full IFS path to directory to display contents for If not specified, IFS file systems will be shown 	path=/home/mbrandt
ifs	name (optional)	<ul style="list-style-type: none"> *.* (default) Generic name (will show only those items whose name matches the generic name) 	<ul style="list-style-type: none"> name= *.* name=m*
ifs	datechg (optional)	<ul style="list-style-type: none"> *NONE (default) Date object was changed since (all objects changed after this date are shown. Format = >YYYYMMDD) Date object was not changed since (all objects not changed after this date will be shown. Format = <YYYYMMDD) 	<ul style="list-style-type: none"> datechg=*none datechg=>20060426 datechg=<20060426
ifs	dateacc (optional)	<ul style="list-style-type: none"> *NONE (default) Date object was accessed since (all objects accessed after this date are shown. Format = >YYYYMMDD) Date object was not accessed since (all objects not accessed after this date are shown. Format = <YYYYMMDD) 	<ul style="list-style-type: none"> dateacc=*none dateacc=>20060415 dateacc=<20060415
ifs	datecrt (optional)	<ul style="list-style-type: none"> *NONE (default) Date object was created before (all objects created before this date are shown. Format = < YYYYMMDD) Date object was created since (all objects created after this date are shown. Format = >YYYYMMDD) 	<ul style="list-style-type: none"> datecrt=*none datecrt=<20050826 datecrt=>20050826
crtifsflr	path (required)	<ul style="list-style-type: none"> Full IFS path to the directory to create the new folder in 	path=/home/mbrandt

Table 5. Task parameter details for the ifs task (continued)

Task ID	Parameter	Possible values	Examples
crtifslr	newflr (optional)	• Name (do not include path) of the new folder	• newflr = mynewdir
dltifs	path (required)	• Full IFS path to the object to delete in IFS	• path=/home/mbrandt/file.txt path=/home/mbrandt/mydir (deletes directory contents as well)
rnmifs	path (required)	• Full IFS path to the object to rename in IFS	• path=/home/mbrandt/file.txt path=/home/mbrandt/mydir
rnmifs	newname (optional)	• Name (do not include path) to rename object to	• newname=renamedfile.txt newname=renameddir
cpyifs	from (required)	• Full IFS path to the object to copy in IFS	• from=/home/mbrandt/file.txt from=/home/mbrandt/mydir (copies directory contents as well)
cpyifs	to (optional)	• Full IFS path to the folder or file system to copy IFS objects to	• to=/QOpenSys to=/home/mbrandt/anotherdir
movifs	from (required)	• Full IFS path to the object to move in IFS	• from=/home/mbrandt/file.txt from=/home/mbrandt/mydir (will move directory contents as well)
movifs	to (optional)	• Full IFS path to the folder or file system to move IFS objects to	• to=/QOpenSys to=/home/mbrandt/anotherdir
ifsprop	path (required)	• Full IFS path to the object to show properties for	• path=/home/mbrandt/file.txt • path=/home/mbrandt/mydir
crtudfs	path (required)	• Full IFS path of the UDFS to create the UDFS in	• path=/dev/QASP01
crtudfs	newudfs (optional)	• Name (do not include path) of the UDFS to create	• newudfs = mynewudfs.udfs
mountudfs	path (required)	• Full IFS path to the UDFS to mount	• path=/dev/QASP01/mbrandt.udfs
mountudfs	mountdir (optional)	• Full IFS path to where to mount UDFS	• path=/MLB
unmountudfs	path (required)	• Full IFS path to the UDFS to unmount	• path=/dev/QASP01/mbrandt.udfs

Integrated Server Administration

Name of task	Task ID (task=xxxx)	Additional Parameters
Servers (list)	nws	
Server Properties	nwsprop	nwsd
Start Server	startnws	nwsd
Start Server with Options	startnwsopt	nwsd
Shut Down Server	stopnws	nwsd
Shut Down and Restart Server	restartnws	nwsd
Server Status	nwssts	nwsd
Run Command on Server	runcmdnws	nwsd
Synchronize Integrated Server Support Software	syncnws	nwsd
All Virtual Disks (list)	vrtdsk	
Linked Virtual Disks (list)	nwsvrtdsk	nwsd
Virtual Disk Properties	vrtdskprop	vrtdsk

Integrated Server Administration		
Name of task	Task ID (task=xxxx)	Additional Parameters
New Virtual Disk	crtvrtdisk	basevrtdisk
Add Virtual Disk Link	addlnkvrtdisk	vrtdisk (optional), nwsd (optional)
Remove Virtual Disk Link	rmvlnkvrtdisk	vrtdisk, nwsd (optional)
Delete Virtual Disk	dltvrtdisk	vrtdisk
Network Server Host Adapters (list)	nwsh	
Network Server Host Adapter Properties	nwshprop	nwsh
New Network Server Host Adapter	crtnwsh	basenwsh
Start Network Server Host Adapter	startnwsh	nwsh
Stop Network Server Host Adapter	stopnwsh	nwsh
Delete Network Server Host Adapter	dltnwsh	nwsh
Remote Systems (list)	rmtsys	
Remote System Properties	rmtsysprop	rmtsys
New Remote System Configuration	crtrmtsys	basermtsys
Remote System Status	rmtsyssts	rmtsys
Delete Remote System Configuration	dltmtrmtsys	rmtsys
Service Processors (list)	srvprc	
Service Processor Properties	srvprcprop	srvprc
New Service Processor Configuration	crtsrvprc	basesrvprc
Initialize Service Processor	inzsrvprc	srvprc
Delete Service Processor Configuration	dltsrvprc	srvprc
Connection Security (list)	cnsec	
Connection Security Properties	cnsecprop	cnsec
New Connection Security Configuration	crtcnnsec	basecnnsec
Delete Connection Security Configuration	dltcnnsec	cnsec
Domains (list)	enrdmn	

NetServer		
Name of task	Task ID (task=xxxx)	Additional Parameters
Display a list of NetServer sessions	netsvrress	
Display a list of disabled users	netsvrdisusr	
Display NetServer statistics	netsvrstat	
Display NetServer properties	netsvrprop	

Performance			
Name of task	Task ID (task=xxxx)	Additional Parameters	Optional Parameters
Disk Status	perf.dsksts		
Active Jobs	perf.actjob		jobname, jobuser, jobnbr, type, curusr, subsystem

Performance			
Name of task	Task ID (task=xxxx)	Additional Parameters	Optional Parameters
Collections	perf.mngcol	coltype	coltype, collib, status
Investigate data	perf.lstprs	packid, persid	vid
System Status	perf.syssts		
Performance Management for System i5®	perf.cs.pmlink		
Collections (subgroup)			
Copy Collection	perf.cpycol		fromcol, tocol, coltype
Delete Collection	perf.dltcol		colname (colname=lib/ collection_name), coltype
Save Collection	perf.savcol		colname (colname=lib/ collection_name), coltype, savf, tgtrls, dtacpr
Restore Collection	perf.rstcol		colname (colname=lib/ collection_name), coltype, savf, rstlib
Convert Collection	perf.cvtcol		fromcol, tocol, coltype
Collectors (subgroup)			
Collection Services (subgroup)			
Collection Services Collections	perf.cs.mngcol		coltype, collib, status
Active Collection Services Collections	perf.cs.mngactcol		coltype, collib, status
Start Collection Services	perf.cs.start		colprf, cyccol
Stop Collection Services	perf.cs.stop		frccolend
Cycle Collection Services	perf.cs.cycle		
Configure Collection Services	perf.cs.config		lib, interval, cyctime, cycitv, crtdbf, crtpfrsum, dftcolprf, retperiod, stddtare
Collection Services Status	perf.cs.status		
Disk Watcher (subgroup)			
Disk Watcher Definitions	perf.dw.lstdfn		
Disk Watcher Collections	perf.dw.mngcol		coltype, collib, status
Active Disk Watcher Collections	perf.dw.mngactcol		coltype, collib, status
Start Disk Watcher	perf.dw.start		
Stop Disk Watcher	perf.dw.stop		
Add Disk Watcher Definition	perf.dw.crtdfn		
Job Watcher (subgroup)			
Job Watcher Definitions	perf.jw.lstdfn		
Job Watcher Collections	perf.jw.mngcol		coltype, collib, status
Active Job Watcher Collections	perf.jw.mngactcol		coltype, collib, status
Start Job Watcher	perf.jw.start		
Stop job Watcher	perf.jw.stop		
Add Job Watcher Definition	perf.jw.crtdfn		

Security		
Name of task	Task ID (task=xxxx)	Additional Parameters
Manage intrusion detection	ids	

Security		
Name of task	Task ID (task=xxxx)	Additional Parameters
IDS properties	idsprop	
Display IDS events	idsevt	
Manage IDS policies	idsplc	
Cryptographic services key management	crpsrv	
Manage cryptographic master keys	mstkey	
Manage cryptographic keystores	keystore	
Authorization lists	autl	
Create authorization list	crtautl	
Change authorizations for an object (permissions)	chgaut	path, objtype
<p>Table Notes:</p> <ul style="list-style-type: none"> Parameter details for the chgaut task: Example: path=/QSYS.LIB/MYLIB.LIB/TASKSTABLE.FILE objtype=table List of possible object types for the objtype parm: <ul style="list-style-type: none"> table (SQL Table) view (View) alias (Alias) index (Index) jrn (Journal) jrnrcv (Journal Receiver) sqlpkg (SQL Package) schema (Schema) seq (Sequence) sqludt (Distinct Type: SQLUDT) class (Routine: Class) extpgm (Routine: External Program) srvgm (Routine: Service Program) trigger (Trigger) proc (Procedure: External or SQL) func (Function: External, SQL, or Sourced) constr (Constraint) 		

Domino®		
Name of task	Task ID (task=xxxx)	Additional Parameters
Domino Servers	domino	

Cluster Resource Services		
Name of task	Task ID (task=xxxx)	Additional Parameters
Displays the list of Nodes.	clu.nod	
Display the list of Switchable Data CRGs	clu.swtdata	

Cluster Resource Services		
Name of task	Task ID (task=xxxx)	Additional Parameters
Display the list of Switchable Applications CRGs	clu.swtapps	
Display the list of Switchable Hardware Group	clu.swtdev	
Display a list of Peer Resources	clu.peer	
Displays a list of Administrative domains	clu.admdmn	
Displays a list with users and authorities	clu.permissions	
Creates a cluster including the current server as a node	clu.crtclu	
Adds a node to this node's current cluster	clu.addnod	
Adds this server as a node to an existing cluster	clu.addclu	
Deletes the cluster	clu.dltclu	
Ends the whole cluster	clu.endclu	
Displays the cluster information	clu.dspclu	
Displays cluster properties	clu.cluprop	
Display cluster log for the selected node	clu.clulog	
Changes permissions for the selected node	clu.chgaut	
Adds a new Product Switchable Applications, shows a panel to capture the parameters	clu.addprd	
Adds a new Switchable Data Group, shows a panel to capture the parameters	clu.adddda	
Adds a new Switchable Device Group, calls a wizard to create it	clu.adddev	
Adds a new Peer CRG	clu.addpeer	
Adds a new Administrative Domain	clu.addadm	
Table Note: If you want to work with clusters to set up a High Availability environment, you need to install IBM System i High Availability Solutions Manager licensed program on each System i model participating in the High Availability environment.		

Related concepts

“Working with System i Navigator tasks on the Web” on page 13

Working with System i Navigator Tasks from a Web browser helps you access a subset of System i Navigator functions available on the Web. The functions are the same as available on the installed PC client, but have some differences in navigating and performing actions on the Web.

“Working with System i Navigator lists on the Web” on page 35

Although you can work with the same function on the Web as you can on the installed client, the interface used to work with System i Navigator tasks on the Web is different from the interface on the installed client.

Working with System i Navigator lists on the Web

Although you can work with the same function on the Web as you can on the installed client, the interface used to work with System i Navigator tasks on the Web is different from the interface on the installed client.

The following information describes how to take action on a System i Navigator task or function from a Web browser, and also provides tips for how to change the way System i Navigator items are displayed in the online list view.

Note: It is important to log out after you are finished using System i Navigator tasks on the Web. When you log out, the system has a chance to close connections and free resources, which makes more memory available to other applications.

Performing actions on a System i Navigator list

To perform actions on a System i Navigator list, you can take action on:

The entire list

Actions that apply to the entire System i Navigator list, such as **Include** and **Columns**, can be found in the **Select Action** menu at the top of the list. Select the action and click **Go** to perform the action. No selection of items in the list is needed prior to performing these types of actions.

A single item

To perform an action on a single item in the list, click the menu icon that is located next to the item name. This displays a context menu where you can select the desired action.

Multiple items

To perform an action on multiple items in the list, select the items by clicking in the selection box to the left of the item names. The items you want to work with are now highlighted. To perform the action, do one of the following:

- Select the desired action from the **Select Action** field at the top of the list, and click **Go**.
- Click the menu icon that is located next to the item name of one of the selected items. This displays a context menu where you can select the desired action

Every item in the list

To perform an action on every item in the list, click the **Select All** icon at the top of the list, and then click the menu icon that is located next to one of the item names. This displays a context menu where you can select the desired action

Table functions available on the Web

The table functions available on the Web are:

Find The Web table supports a find function, which has more capability than the Find supported within the System i Navigator client. You can do the following from the Web table:

- Specify these different conditions: contains, starts with, ends with, exact match
- Limit the search to a specific column, or search across all columns
- Search up or down in the list
- Specify whether to match the case
- Specify to display the Find toolbar or to hide the Find toolbar

Filter List filtering is provided for all System i Navigator lists on the web, regardless of whether the component that provides the list supports an include function. It should be noted that, unlike the include function, filter settings for lists are not remembered for subsequent uses of the list. This filtering function supports the following:

- Supports filtering on one or more columns in the list

- Supports the following filter conditions for text columns (a match case option can be applied to all of these conditions) :
 - Contains
 - Starts with
 - Ends with
- Supports the following filter conditions for numerical columns:
 - All numbers
 - Numbers less than xxx
 - Numbers less than or equal to xxx
 - Numbers greater than xxx
 - Numbers greater than or equal to xxx
 - Numbers equal to xxx
 - Numbers not equal to xxx
 - Numbers between xxx and yyy
 - Numbers between and including xxx and yyy

Sort The built-in data sorting allows you to do the following:

- Specify up to 3 columns from the list to sort the list by
- Specify ascending or descending sorting for each of the columns

List navigation

The Web table allows easy navigation throughout the list by supporting the following:

- Next and previous buttons for moving through the list
- Going to a specific page in the list
- Collapsing or expanding the entire list

Note: If you want to modify the number of entries per page that display in a list, you can use the Table size parameter (&table-size).

Add or remove selections for all items in the list

You can easily add a selection to all items in the list, or remove selections from all items in the list by clicking on a toolbar icon at the top of the web table.

Related concepts

“Working with System i Navigator tasks on the Web” on page 13

Working with System i Navigator Tasks from a Web browser helps you access a subset of System i Navigator functions available on the Web. The functions are the same as available on the installed PC client, but have some differences in navigating and performing actions on the Web.

Related reference

“System i Navigator URL parameters and available Web tasks” on page 16

The predefined URL parameters and URL abbreviations for the available Web tasks help you create unique URLs to work with different System i Navigator Web tasks.

Appendix. Notices

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