IBM Systems Director Navigator for i5/OS

New Web console for i5, Fast, Easy, Ready

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Agenda

• IBM Systems Director Navigator for i5/OS (i5/OS V6R1)
  – What is it?
  – How do you get it?
  – What is/isn’t included?
  – How does it work?
  – What is ISC?
  – How does it compare to System i Navigator?
What is it?

• IBM Systems Director Navigator is the strategic management console for i5/OS

• New Web based console is included with i5/OS beginning in V6R1

• It uses the same Integrated Solutions Console (ISC) framework that the Web based IBM Systems Director will use

• It is considered a “Level 1” console, that is, it is used to manage just ‘this’ server

• It contains all the currently Web-enabled functions of System i Navigator (over 300 tasks)
  
  o All Web enabled tasks are still URL addressable and can be accessed individually as servlets, or as portlets within the new Web console
Welcome to the IBM Systems Director Navigator for i5/OS

The IBM Systems Director Navigator for i5/OS provides an easy to use interface for the web-enabled System i management tasks, including all previous System i Navigator tasks on the web and 2001 port i5/OS tasks.

Expand i5/OS Management in the left-hand navigation area to get started.

To see the previous version of the 2001 port i5/OS tasks and where they are located now, click below.

i5/OS Tasks Page
How do you get it?

• IBM Systems Director Navigator for i5/OS is included as part of the base operating system option 3 (5761SS1 0003). There is no extra charge required to get it.

• The following products must also be installed (these should already be on your system)

  - IBM HTTP Server for i5/OS 5761DG1
  - Qshell 5761SS1 option 30
  - Portable App Solutions Environment (PASE) 5761SS1 option 33
  - IBM Developer Kit for Java 5761JV1
  - J2SE 5.0 32 bit 5761JV1 option 8
  - IBM Toolbox for Java 5761JC1
  - Host Servers 5761SS1 option 12
What is included?

• All web-enabled functions of System i Navigator, organized into 13 different task categories (over 300 tasks total)
  - Jobs, messages, system values, database, users, file systems, security, performance ...

• In addition, functions from the following for-purchase LPPs will be available in the console when the LPPs are installed:
  - iHASM (System i High Availability Solutions Manager) 5761HAS
  - BRMS (Backup, Recovery, & Media Services) 5761BR1
  - IBM Performance Tools for i5/OS (DiskWatcher) 5761PT1
  - IBM Performance Tools for i5/OS (JobWatcher) 5761PT1 option 3
What isn’t included?

• Management Central functions
  - Strategy is to use IBM Systems Director products for multi system tasks on the Web

• Database functions that involve graphics and charts
  - SQL Scripts
  - Visual Explain
  - Database Navigator
  - SQL Assist

• Disk Management
  - Graphical View
  - Disk Unit Physical Location
  - Disk Unit/ASP Capacity chart
How does it work?

- Ensure the HTTP Administration servers are running
  - These servers will be an auto start server beginning in V6R1 – starts with the TCP/IP servers
How does it work?

In V6R1 all Web based consoles run on the Integrated Web Application Admin servers.

HTTP Web Admin GUI, LDAP, Web Navigator, IPP

IBM Systems Director Navigator, Secure Perspective, Cluster Services, HASM

IBM Access for Web
How does it work?

- Enter the following URL into a browser

Supports the following browsers:

- Microsoft® Internet Explorer, 6.0 or later
- Mozilla Firefox, 1.0 or later
How does it work?

- Accept the certificate warnings
  - Consoles runs on SSL

Internet Explorer 6

Firefox 2

Internet Explorer 7
How does it work?

• URL will be re-routed to secure path
• Enter your i5/OS user ID and password for this system
How does it work?

Web Console interface displays

- Expand i5/OS Management to view the task categories
- Click on the desired task category to view the Welcome Page for that task
- Click on a task on the Welcome Page, or, click on the Show All Tasks button to view all web enabled tasks for that category
- Each selected task appears in a separate portlet, and a tab appears at the top of the work space
Where did the Task page go?
New controls overview

Left Navigation groups all the tasks in logical compartments

New Tab for each view!

Most common functions included on each Welcome menu

Help link!

All functions
New controls overview

The ‘All Tasks’ view shows every task that is supported for this category in a tree view

• open / close tree nodes
• select the task, click OK at bottom of table
New controls overview

Fast path icons to Table tasks!
- Filters
- Sorts
- Entry selection

Select from the available actions
- Object tasks
- Category tasks
- Table tasks
  - Columns, Filters, Sorts

Select an entry
- Click on arrow
- Tasks for object
New controls overview

Operations are broken down to tasks with logical groupings.

Wizard like interfaces to organize values.
New controls overview - Terms

Banner – Common image across all consoles

Page Bar – navigate between pages

Navigation Tree – group tasks

Work area
New controls overview – Portlet controls

- allows you to edit settings for the portlet
- return to the previous screen
- displayed if help
- minimize the module view; only the title bar is visible
- maximize view, full portlet view is visible
- close a portlet
- console module can be refreshed without reloading the console page
## What's included – Base functions

<table>
<thead>
<tr>
<th>System</th>
<th>Commonly used System tasks include viewing system status, messages, disk status, and passwords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Operations</td>
<td>Basic tasks to easily manage lists of messages, printer output, and printers</td>
</tr>
<tr>
<td>Work Management</td>
<td>Control the work performed on the system including support for interactive and batch work. Distribute resources to ensure applications run well.</td>
</tr>
<tr>
<td>Configuration and Service</td>
<td>Functions to help you manage both hardware and software on your system, including System values, Time management, and Disk units</td>
</tr>
<tr>
<td>Network</td>
<td>Control TCP/IP configuration, Remote access services, networking servers, and IP Policies</td>
</tr>
<tr>
<td>Integrated Server Administration</td>
<td>Manage Servers hosted by i5/OS, enroll and manage users and groups</td>
</tr>
<tr>
<td>Security</td>
<td>Functions allow you to plan and implement security on your system, Authorization lists, Object permissions, Cryptographic functions</td>
</tr>
</tbody>
</table>
## What's included – Base functions

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Users and Groups</strong></td>
<td>Display and manage a complete list of the users &amp; groups, create, delete, modify</td>
</tr>
<tr>
<td><strong>Databases</strong></td>
<td>Graphical interface to perform many common admin database operations, access and modify objects, work with performance monitors, as well as access the Health center</td>
</tr>
<tr>
<td><strong>Journal Management</strong></td>
<td>Work with journals and journal receivers</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td>Collect performance data, view the collection to investigate potential performance issues</td>
</tr>
<tr>
<td><strong>File Systems</strong></td>
<td>Links to the most commonly used File Systems tasks, integrated file system, i5/OS NetServer, Network File System</td>
</tr>
<tr>
<td><strong>Internet Configurations</strong></td>
<td>i5/OS internet configuration tasks, HTTP Server, Digital Certificates, IBM IPP, Web-based help server, Internet Setup wizard</td>
</tr>
</tbody>
</table>
## What's included – Additional LPPS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Backup, Recovery, and Media Services</strong></td>
<td>Manage your most critical and complex backups, including online backups of Lotus servers, simply and easily. You can also recover your system fully in the event of a disaster or hardware failure.</td>
</tr>
<tr>
<td><strong>Cluster Resource Services</strong></td>
<td>Task-based approach for setting up and managing your high availability solution. Create a customized high availability solution by separately creating each element of the high availability solution. Create and manage clusters, cluster resource groups, device domains, cluster administrative domains, and perform switchovers.</td>
</tr>
<tr>
<td><strong>High Availability Solutions Manager</strong></td>
<td>Easy-to-use, guided approach to setting up high availability. This interface ensures and validates prerequisites, configures all necessary technologies for the selected solution, and tests the set up. This management solution interface is best for smaller businesses who want simpler solutions that require fewer resources.</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td>Browser-based performance tasks, manage performance data collections, graphical user interface for collecting performance data, graphically view and analyze performance data using Collection Services, Job Watcher, Disk Watcher</td>
</tr>
</tbody>
</table>
Welcome Pages - System

is/OS System management allows you to perform general system level tasks.

- **System Status**
  - Allows you to display the system's current status.

- **System Operator Messages**
  - Allows you to display messages sent to the system operator.

- **History Log**
  - Allows you to display the system's current history log.

- **Disk Status**
  - Allows you to view the system's current disk status.

- **Run a Command**
  - Allows you to run an is/OS command.

- **Change Password**
  - Allows you to change your system password, or, if authorized, another user's password.

- **Application Administration**
  - Allows you to manage user's authorizations to is/OS Navigator functions.
Welcome Pages – Basic Operations

IBM Power Systems

Integrated Solutions Console - Microsoft Internet Explorer

Welcome | Basic Operations

Welcome Pages – Basic Operations

Basic Operations - Rchaswg5

i5/OS Basic Operations allows you to manage messages, printer output, printers, and your own jobs.

Send a Message

Allows you to send a message to other users or message queues.

Messages

Allows you to manage your messages.

Printer Output

Allows you to manage printer output.

Add a Printer

Allows you to add and configure a new printer for i5/OS.

Printers

Allows you to manage printers.

User Jobs

Allows you to manage your jobs.

Show All Basic Operations Tasks

Close


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Welcome Pages – Configuration and Service

Integrated Solutions Console - Microsoft Internet Explorer

Integrated Solutions Console
Welcome
My Startup Pages

i5/OS Management
- System
- Basic Operations
- Work Management
- Configuration and Service
- Network
- Integrated Server Administration
- Security
- Users and Groups
- Databases
- Journal Management
- Performance
- File Systems
- Internet Configurations

Settings

Configuration and Service - Rchaswgs5

i5/OS Configuration and Service allows you to perform system configuration.

- System Values
  Allows you to change the system values that determine how your system operates.

- Time Management
  Allows you to manage time on your system.

- Disk Units
  Allows you to manage disk units on your system.

- Disk Pools
  Allows you to manage disk pools on your system.

- Add Disk Unit
  Allows you to add a disk unit to your system.

- New Disk Pool
  Allows you to create a disk pool on your system.

Show All Configuration and Service Tasks

Close
Welcome Pages - Network

Welcome

My Startup Pages

i5/OS Management
- System
- Basic Operations
- Work Management
- Configuration and Service
  - Network
- Integrated Server Administration
- Security
- Users and Groups
- Databases
- Journal Management
- Performance
- File Systems
- Internet Configurations

Settings

Integrated Solutions Console - Microsoft Internet Explorer

Network - Rchswg5

i5/OS Network Management allows you to manage TCP/IP and internet support.

- **Create IPv4 Object**
  - Allows you to create IP version 4 objects.

- **Create IPv6 Object**
  - Allows you to create IP version 6 objects.

- **Lines**
  - Allows you to manage and configure physical lines.

- **TCP/IP Servers**
  - Allows you to manage and configure TCP/IP servers.

- **DNS Servers**
  - Allows you to manage and configure Domain Name System (DNS) servers.

- **IBM Tivoli Directory Server Web Administration Tool**
  - Allows you to administer the Tivoli Directory Server for i5/OS.

Show All Network Tasks

Close
Welcome Pages – Integrated Server Administration

IBM Power Systems

Integrated Solutions Console - Microsoft Internet Explorer

Welcome Pages – Integrated Server Administration

Welcome
My Startup Pages

i5/OS Management
- System
- Basic Operations
- Work Management
- Configuration and Service
- Network
- Integrated Server Administration
- Security
- Users and Groups
- Databases
- Journal Management
- Performance
- File Systems
- Internet Configurations

Settings

Integrated Server Administration - Rchswrg5

i5/OS Integrated Server Administration allows you to manage servers that are hosted by i5/OS.

Servers
- Allows you to manage integrated and virtual servers.

All Virtual Disks
- Allows you to manage virtual storage that i5/OS provides to integrated and virtual servers.

New Virtual Disk
- Allows you to create new virtual storage and assign it to a server.

Network Server Host Adapters
- Allows you to manage i5/OS network server host adapter (NWSH) configuration objects for i5/OS iSCSI host bus adapters (iSCSI HBAs).

New Network Server Host Adapter
- Allows you to create a new network server host adapter (NWSH) configuration.

Remote Systems
- Allows you to manage the remote system network server configuration objects for iSCSI-based servers.

New Remote System Configuration
- Allows you to create a new remote system configuration for iSCSI attached servers.

Service Processors
- Allows you to manage i5/OS service processor configuration objects for iSCSI attached servers.

Done
Welcome Pages - Security

i5/OS Security allows you to configure and manage security settings for your system.

- **Authorization Lists**
  - Allows you to manage authorization lists.

- **Create an Authorization List**
  - Allows you to group objects with similar security requirements and associate the group with a set of users and user authorities.

- **Change Object Permissions**
  - Allows you to change permissions for an i5/OS object.

- **Cryptographic Services Key Management**
  - Allows you to store and manage master keys and keystores.

- **Cryptographic Coprocessor**
  - Allows you to configure the cryptographic coprocessor.

- **Intrusion Detection**
  - Allows you to set up and manage policies that notify you of any intrusions detected against your server.

Show All Security Tasks

Close
Welcome Pages – Users and Groups

i5/OS User Management allows you to manage your i5/OS users and groups.

- **Users**
  Allows you to manage the users on your server. You can also view the list of user objects for the user.

- **Users not in a Group**
  Allows you to manage any existing users that are not currently in a group.

- **Create User**
  Allows you to create a new user.

- **Change User**
  Allows you to change the properties of an existing user.

- **Groups**
  Allows you to manage any existing groups or create new ones.

- **Create Group**
  Allows you to create a new group.

Show All User Management Tasks

Close
Welcome Pages – Databases

i5/OS Databases allows you to manage your databases.

Current database: S10127F0    Current schema: Qmgtc2

- **Databases**
  - Displays a list of the databases on the system from which you can perform all database tasks.

- **All Objects**
  - Allows you to work with all database objects for a specific database and schema.

- **Tables**
  - Allows you to work with the database tables for a specific database and schema.

- **Views**
  - Allows you to work with database views for a specific database and schema.

- **Indexes**
  - Allows you to work with database indexes for a specific database and schema.

- **Performance Monitors**
  - Allows you to monitor the performance of a specific database.

- **Health Center**
  - Allows you to monitor the current health of a specific database.
Welcome Pages – Journal Management

i5/OS Journal Management allows you to manage your journals and journal receivers.

Current database: S10127f0      Current library: Quvsrsys

- **Journals**
  - Allows you to manage all journals.

- **Create a journal**
  - Allows you to create a new journal.

- Set Database / Library to Use with Journal Tasks
- Show All Journal Tasks

Close
Welcome Pages - Performance

i5/OS Performance tools allows you to collect and investigate performance data on your system.

- **Investigate Data**: Allows you to investigate previously collected performance data on your system.
- **Collections**: Allows you to manage the performance data of your system.

Show All Performance Tasks
Welcome Pages – File Systems

i5/OS File Systems allows you to manage the file system.

**Integrated File System**
Allows you to manage the file system contents, i5/OS NetServer file shares, and permissions.

**File Shares**
Allows you to manage i5/OS NetServer file shares.

**Create File Share**
Allows you to create an i5/OS NetServer file share.

[Close]
Welcome Pages – Internet Configurations

i5/OS Internet Configurations allows you to perform internet configuration tasks.

IBM Web Administration for i5/OS
- Allows you to manage and configure HTTP servers and application servers.

System i Navigator URL Advisor
- Allows you to add i5/OS administration tasks into your web applications.

Digital Certificate Manager
- Allows you to create, distribute, and manage Digital Certificates.

IBM IPP Server for i5/OS
- Allows you to configure the IBM IPP Server.

Web-based Help Server
- Allows you to administer the Web-based help server.

Internet Setup Wizard
- Allows you to use the internet setup wizard to configure your internet environment.
Welcome Pages – Backup, Recovery and Media Services

Backup, Recovery and Media Services (BRMS)

Welcome to Backup, Recovery, and Media Services for i5/OS.

Backup, Recovery, and Media Services for i5/OS(TM) helps you implement a disciplined approach to managing your backups, lost or damaged data. Using BRMS, you can manage your most critical and complex backups, including online backups and recover your system fully in the event of a disaster or hardware failure.

- Do not show welcome

<table>
<thead>
<tr>
<th>List</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backup, Recovery, and Media Services for i5/OS</td>
<td>Select actions such as displaying the global policy properties, backup and recovery policies, and media policies.</td>
</tr>
<tr>
<td>Archive Control Groups</td>
<td>Create, run, display and maintain archive control groups.</td>
</tr>
<tr>
<td>Backup Control Groups</td>
<td>Create, run, display and maintain backup control groups.</td>
</tr>
<tr>
<td>Media Policies</td>
<td>Display media policies information.</td>
</tr>
<tr>
<td>Move Policies</td>
<td>Display move policy information.</td>
</tr>
<tr>
<td>Volumes</td>
<td>Display volume information.</td>
</tr>
<tr>
<td>Media Pools</td>
<td>Display media pool information.</td>
</tr>
<tr>
<td>Tasks</td>
<td>Tasks which are scheduled, executing, or have been completed.</td>
</tr>
</tbody>
</table>

Page 1 of 1  Total: 8  Filtered: 8  Displayed: 8
Additional Info – Backup, Recovery and Media Services

LPPS:

- 5761BR1 *BASE Backup Recovery and Media Services
- 5761BR1 1 BRMS - Network Feature
- 5761BR1 2 BRMS - Advanced Feature

Additional Session:

402342  - V6R1: Backup/Recovery Strategies Update
Welcome Pages – Cluster Resource Services

System: Lp03ut18 is not part of a cluster.
You can start the New Cluster wizard to create a cluster on this system.
New Cluster

Related Topics
- Planning for clusters
- Configuring clusters
- Change the cluster version
- Delete a cluster
- Stop Clustering
Welcome Pages – High Availability Solutions Manager

High Availability Solutions Manager

The high availability solutions manager helps you select, set up, and manage your high availability solution.

1. See how IBM high availability solutions work
2. Select your high availability solution
3. Verify requirements before setting up your high availability solution
4. Set up your high availability solution (license required)
5. Manage your high availability solution (license required)

Trial period ends in 60 days

Cross-Site Mirroring with Geographic Mirroring

Close

Terms and Concepts

High Availability Operator’s Guide
Additional Info – Cluster Resource Services
– High Availability Solutions Manager

LPPS:
  • 5761HAS  *BASE  iHASM

Additional Session:

520096 - V6R1: Setting Up Your HA Solution
520100 - V6R1 i5/OS Web GUI for Clustering and HA
Welcome Pages – Performance

Disk Watcher

Job Watcher
Additional Info – Performance

LPPS:

• 5761SS1  46  Performance Viewer Open Source Components
• 5761PT1  *BASE  IBM Performance Tools for i5/OS
• 5761PT1  1  Performance Tools - Manager Feature
• 5761PT1  2  Performance Tools - Agent Feature
• 5761PT1  3  Performance Tools - Job Watcher

Additional Session:

520038 - V6R1: Analyzing Disk Performance Using Disk Watcher
540010 - V6R1: What's New with IBM Performance Tools
540180 - V6R1: Performance Data Investigator for i5/OS
What is ISC?

ISC – Integrated Solutions Console

• Provides the strategic ‘single console for administering IBM products and related applications’

• Used by
  • IBM Systems Director Web based products
    ○ Virtualization Manager
    ○ Active Energy Manager
    ○ Plus more
  • WebSphere Application Server Administrative GUI

• Limitations
  ○ 30 min session timeout!
What is ISC - Features provided

• Portlet based infrastructure
  • Multi tasking; switch between *active* tasks
  • Partial refresh; refresh only the selected portlet
• Manage Open pages
• Startup pages
  • Specify pages to open every time you log in
• Single sign-on
  • Access all functions within the *portlet* view
  • A user can only sign in *once*
What is ISC - Manage Open Pages

From far right drop down select the Manage Open Pages link

Manage large numbers of open pages
- View
- Close
- Navigate
What is ISC - My Startup pages

Sign-in and specified pages are automatically opened

Great for watching important System functions/activities
What is ISC - My Startup pages

Open desired page; In far right dropdown
Select ‘Add to My Startup Pages’
What is ISC - My Startup pages

Click ‘OK’ on the confirmation screen
How does it compare to System i Navigator?

- IBM Systems Director Navigator for i5/OS requires nothing to be installed on your PC
  - Is installed and available to use out-of-the-box in V6R1

- In V6R1, IBM Systems Director Navigator for i5/OS is not a complete replacement for System i Navigator
  - There is substantial function (over 300 web-enabled functions) that have been Web enabled as of V6R1

- IBM Systems Director Navigator for i5/OS provides management function not available in System i Navigator
  - Performance Data Investigator
  - High Availability Solutions Manager
How does it compare to System i Navigator?

- IBM Systems Director Navigator for i5/OS is intended for management of only the server where you point your web browser.
  - Management Central capabilities are not included
  - Use IBM Systems Director cross-platform products for multi-system management

- Both are built from same source code for consistent functionality. Panels look different when rendered on the Web Console

- Single user can only sign in to one Web Console either
  - IBM Systems Director Navigator or System i Navigator URL Advisor

- Both can have functions restricted
  - System i Navigator don’t install functions
  - Web Console restrict users from specific tasks
Customize functions/applications

Select the Application Administration link
Customize functions/applications

- Open the tree node for the section
- Select the desired task

- Open the task menu
- Select Customize
Customize functions/applications

Specify the Users/groups that you either want to give access or restrict access to this function.
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