

Session: C70



iSeries Operations Navigator: Managing Software, Fixes, Files

IBM @server iSeries

Presenter: Dennis Schmidt

dschmidt@us.ibm.com

Author: Sue Townsend

smtowns@us.ibm.com

© Copyright IBM Corporation, 2001. All Rights Reserved.
This publication may refer to products that are not currently
available in your country. IBM makes no commitment to
make available any products referred to herein.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Agenda

IBM @server iSeries

Overview

Object & File Packaging

- Define
- Send

Product Packaging

- Define
- Install
- Send and Install
- Generate Fix

Fixes

- Collect
- Compare and update
- Send and install
- Copy from media
- Search inventory

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Overview

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Overview

IBM @server iSeries

Management Central is a suite of systems management functions that began to appear with OS/400 Version 4 Release 3 (V4R3). It provided management capabilities built into base OS/400 and integrated into the iSeries Graphical interface, Operations Navigator at no additional cost. The first functions included system monitors and system groups. In V4R4, it was greatly enhanced to enable long running, batch, scheduled or unattended operations for commands, packages, fix management and inventory. V4R5 ushered in the wireless and web enablement with Pervasive functions which included system availability and system monitors.

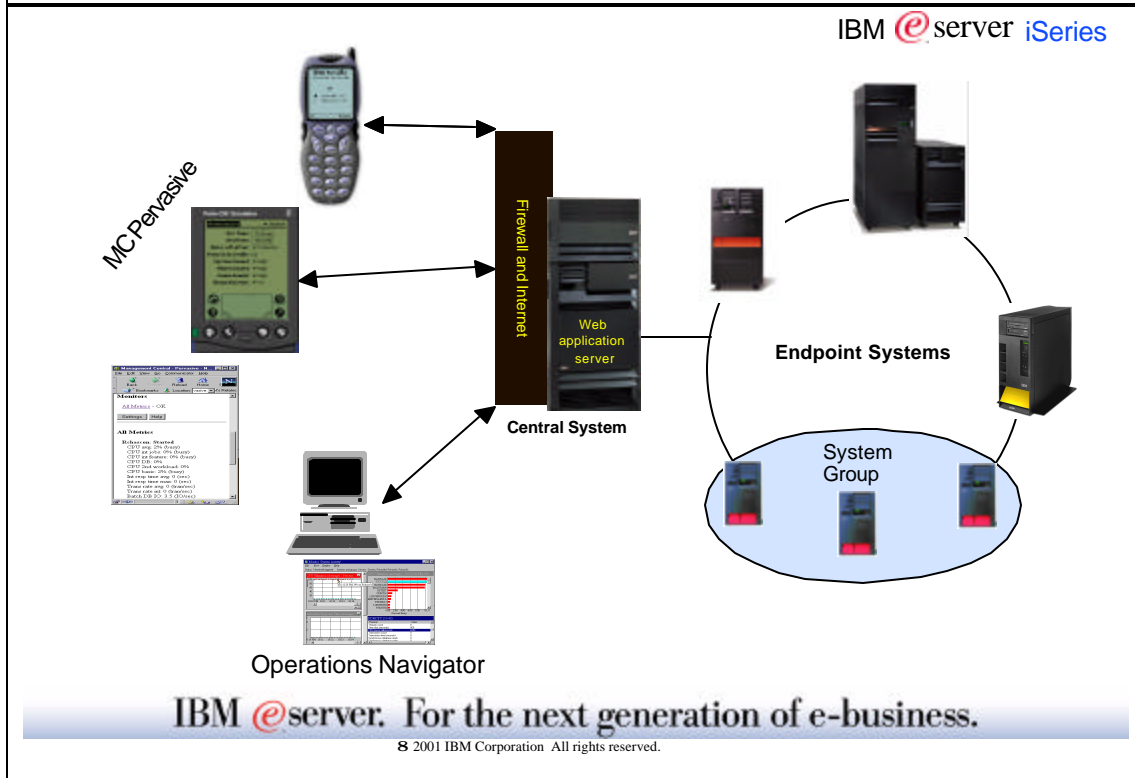
Today, it has expanded with enhancements to existing applications along with new applications. The new applications include functions for user administration, system value management, job monitoring, message monitoring and historical performance graphical interface. The pervasive devices have also be expanded to include Commands, Job monitors and Message monitors.

Management Central uses the basic system operations on each of the endpoints (e.g., APIs for performance monitoring, system commands, etc.). Management Central does not place any limitation on the number of endpoint systems used by its functions. There will be practical limits determined by your environment, networks, management policies, etc.. In addition, there is no limit to the number of endpoint systems that can be in a group. Endpoints do not need to be at the same level as the Central System, nor does the Central System need to be at the same level as the Client, HOWEVER, Management Central is only as good as the client and Central System combination.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Basics



Notes: Basics

IBM eServer iSeries

PC provides the graphical interface (i.e., view) both input and output of management activities. **Operations Navigator** is installed on the PC so the user can have a rich graphical interface to interact with the systems.

MC Pervasive is a companion to Operations Navigator which provides the user with a mechanism to manage their systems from a web browser, Internet enabled phone or personal data assistance (PDA). The initial functions, System Monitors and System status, were introduced in V4R5. In V5R1, the functionality has been expanded to include message monitors, job monitors and commands.

- **Firewall** - A firewall is optional but is recommended to accessing the functions via the wireless devices.
- **Web Application Server** - Used to run the servlet for MC Pervasive functions. Examples would include Domino and Websphere.

Central System connects to other systems (called endpoints) and store most management information.

Endpoints are just systems which your PC does not need to be in direct contact with in order to "manage".

Source System is from which objects, files and information are sent within Management Central's send tasks. The Source System is the source of the objects, files and information being sent.

Model System has all and only desired fixes installed or has all system values set properly for the targets.

Target Systems is where objects, files and information are sent within Management Central's send tasks. The Target Systems are the destinations of the objects, files and information being sent. Target Systems are often grouped into System Groups.

IBM eServer. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Packaging and Installation

Where Do I Get It?

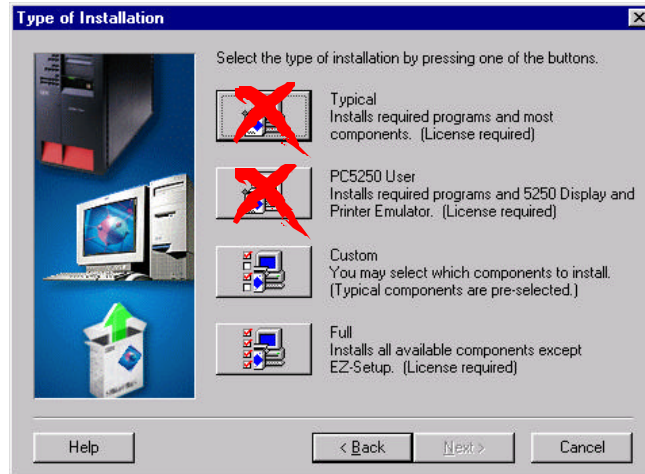
IBM @server iSeries

Packaging

- Server - 5722SS1 options *BASE and 0003
- Client - Client Access Express for Windows

Client Installation

- Windows
 - 95
 - 98
 - NT 4.0
 - 2000 Professional Client
- iSeries NetServer or CD
- CA/400 Directory
- Custom or Full Option



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Where Do I Get It?

IBM @server iSeries

Management Central is included with OS/400 at no additional cost. The host AS/400 function is integrated into base OS/400. The client function is integrated into Operations Navigator which ships as part of Client Access (V4R3) and Client Access Express (V4R4 and later).

The connectivity general rule of thumb is that N-2 and N+2 releases are supported. There is an exception with Management Central if you are using V4R3. Management Central DOES NOT support a V4R3 client connected to a V4R4 (or later) central system. If you do attempt to connect a V4R3 client to a V4R4 (or later) central system, it may work, but only V4R3 function is available (monitors).

It's recommended to use V4R3 clients with V4R3 hosts, and V4R4 (and later) clients with V4R4 (and later) hosts. The limitation to remember here is the client-to-server configuration. It is supported to mix these releases as endpoints or between central systems and endpoints. This limitation stems from the fact that from V4R3 to V4R4, Management Central went from its own window to being fully integrated into Operations Navigator, which created some backward incompatibilities. Based on customer demand, it was decided to focus on delivering additional function rather than supporting the V4R4 (and later) to V4R3 configuration.

Management Central is a technology integrated into Operations Navigator and is NOT directly installed. When installing Client Access Express, choose 'Custom Install'. Expand the Operations Navigator tree and select the appropriate components such as Monitors, Commands.....

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Packaging and Installation

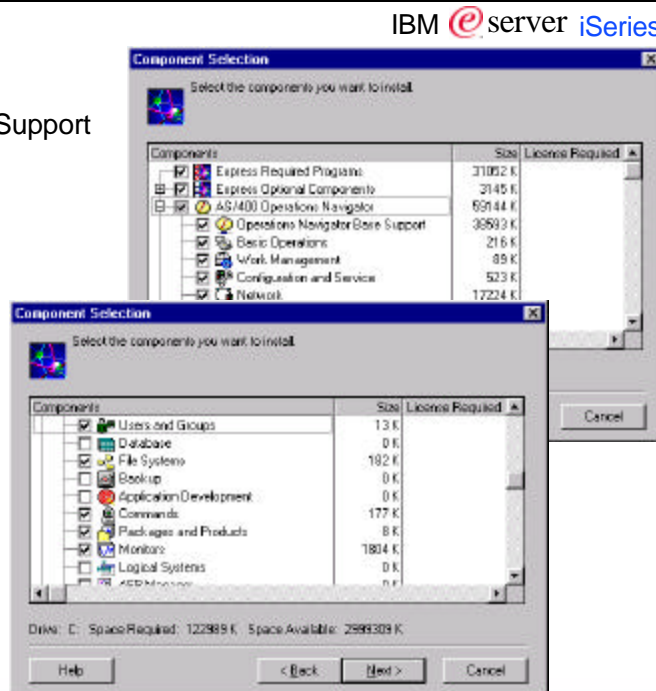
What Components Do I Need?

Basic support Options

- Operations Navigator Base Support
- Basic Operations
- Work Management
- Configuration and Services
- Network
- File Systems

Expanded Options

- Users and Groups
- Command
- Packages and Products
- Monitors



MY WAY **IBM @server.** For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

- Select EVERYTHING!!

Notes: What components do I need?

IBM @server iSeries

Basic support Options

- Operations Navigator Base Support - Many things are included here for underlying support such as common dlls and jar files.
- Basic Operations - Message actions and ability to view spooled files
- Work Management - Job actions for job and system monitor menus
- Configuration and Services - Ability to view inventory directly, directly launch graph history from management collection objects
- Network - View, start and stop servers such as Management Central
- File Systems- Ability to view and select items from the file system such as files and programs.

Expanded Options

- Users and Groups - Edit and send user profiles.
- Command - Create command definitions and run across a set of endpoint systems
- Packages and Products - Ability to package object and files and create installable products/fixes
- Monitors- watches information about a system along with threshold notification and automation
 - System - performance and system information such as CPU utilization and DASD
 - Job - jobs performance information including individual and totals summary information such as CPU Utilization and number of jobs
 - Message - messages on message queues for specified messages

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Basics

Main View Terminology

The screenshot shows the AS/400 Operations Navigator interface. The left pane displays a tree view of the Management Central (Pichsam0m) structure. The right pane displays a table of objects with columns for Name and Description. The table contains the following data:

Name	Description
Task Activity	Work with acti
Scheduled Tasks	View and work
Definitions	Create and ma
Monitors	Collect and vie
Endpoint Systems	Create, delete,
System Groups	Create, delete,
Extreme Support	Contains servic
Systems with Partitions	Configure and
Clusters	Configure and

Labels with arrows pointing to the tree view:

- Task** points to the 'Task Activity' folder.
- Scheduled Task** points to the 'Scheduled Tasks' folder.
- Definitions** points to the 'Definitions' folder.
- Monitors** points to the 'Monitors' folder.

IBM @server iSeries

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Main View Terminology

Task - Asynchronous activity distributed over a group of endpoints that performs a specific action. A task is explicitly started or scheduled to start through user interaction and then runs through completion. It can only be explicitly changed while it is scheduled. It can also be explicitly canceled through user interaction.

- Commands
- Object and Product Package Distributions
- Collection Services
- Inventory Collections
- Software Fix - iSeries Fix Operations
- Users and Groups
- System Values

Scheduled Task - This is a regular task which the user wanted to run at a specified date and time. Once the scheduled task as run, it will be moved in with the other base Tasks.

Definition - Data and/or activity description that can be constructed, viewed and managed.

- Command Definition - description and parameters of a command operation.
- Packages Definition - a collection of objects and/or files grouped together for the purpose of distribution
- Product Definition - a collection of objects and/or files grouped and formed as an installable product.
- User Definition - a predefined user with attributes predefined. Other users can be created based on these user.

Monitor - Activity distributed over a group of endpoints that collects, presents and warns the user. A monitor can be explicitly started, changed and stopped through user interaction.

- System - original monitors for performance
- Job - monitors a specific criteria of jobs or servers
- Message - monitors a specified message queue for a criteria of messages.

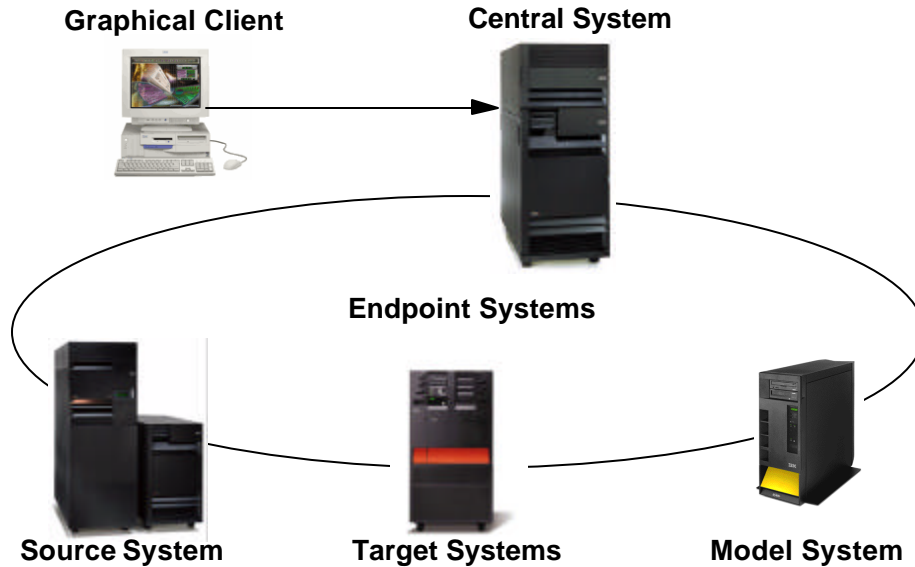
IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Basics

System Roles

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: System Roles

IBM @server iSeries

The following terms are used to reference a specific role a system may play in a Management Central scenario. Any iSeries running the Management Central Server can play one or more of these roles simultaneously excluding Graphical Client.

Graphical Client - Operations Navigator interface to construct and view definitions, initiate and track activities. Usually only needs direct connection to the Central System. Requires user id on the Central System and Endpoint systems.

Endpoint Systems - iSeries providing the source data for and/or are to be managed through Management Central operations. Management Central function on Endpoint Systems is controlled by the central system. Endpoint Systems can be discovered, or "created" on your Central System. Endpoint Systems are often grouped into System Groups.

Central System - iSeries System designated to store Management Central data as well as distribute and track Management Central operations on any number of Endpoint Systems. Maintains active connections from multiple Graphical Client and multiple Endpoint Systems.

Source System - System from which objects, files and information are sent within Management Central's send tasks. The Source System is the source of the objects, files and information being sent.

Model System - System that has all and only desired fixes installed.

Target Systems - iSeries to which objects, files and information are sent within Management Central's send tasks. The Target Systems are the destinations of the objects, files and information being sent. Target Systems are often grouped into System Groups.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

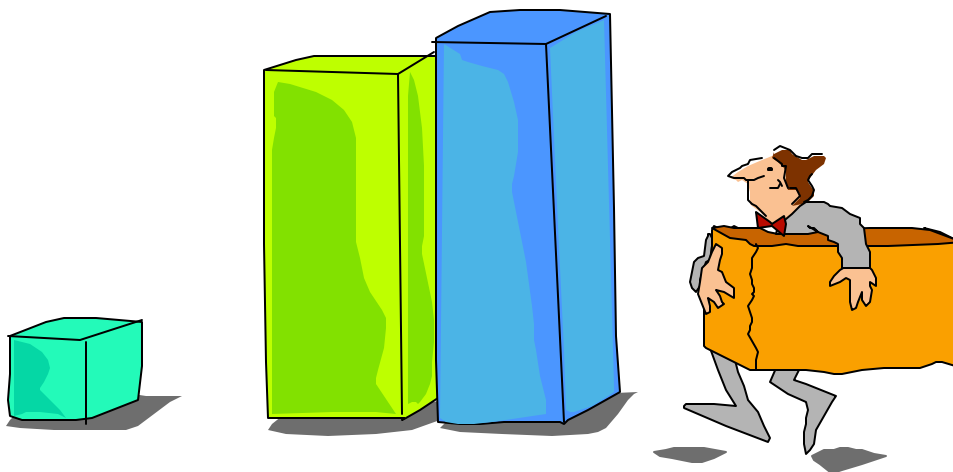
Object & File Packaging

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Organize into neat packages

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Object & File Packaging: Overview

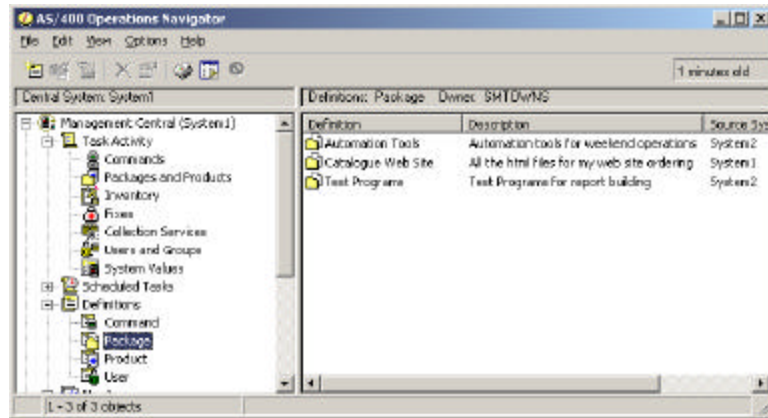
IBM @server iSeries

Focus and Features

- Access through a simple graphical interface
- Schedule on a specific date/time or reoccurring
- Distribute to multiple systems

Functions

- Define package
 - Include objects
 - Select
 - Specify actions
- Send package
- Snapshot



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Object & File Packaging - Overview

IBM @server iSeries

Management Central's object and file packaging has 3 primary objectives:

- Access through an integrated, easy to use interface. Operations Navigator is the integrated graphical interface to the iSeries which make it the perfect candidate as the object and file packaging interface.
- Distribute packages to multiple system as easily as a single system. This can be powerful in maintaining several system with the same objects and files.
- Schedule the distribution to occur at a specific data/time or on a reoccurring schedule. This can be beneficial for doing distributions during times when the network can handle the bulky transfer of objects and files.

The package definition provides an easy way to set up custom tools and resources on the target systems.

A package definition tells the distribution application:

- What objects to send and how to send them.
- What action to take on each endpoint after the objects are sent.

A package snapshot captures the current state of the objects on the source system to ensure the same objects are sent to all the systems when distributed. If a snapshot is not used, the object are sent from the source system as they exist when the package is sent.

A package can be distributed on demand or on a reoccurring schedule.

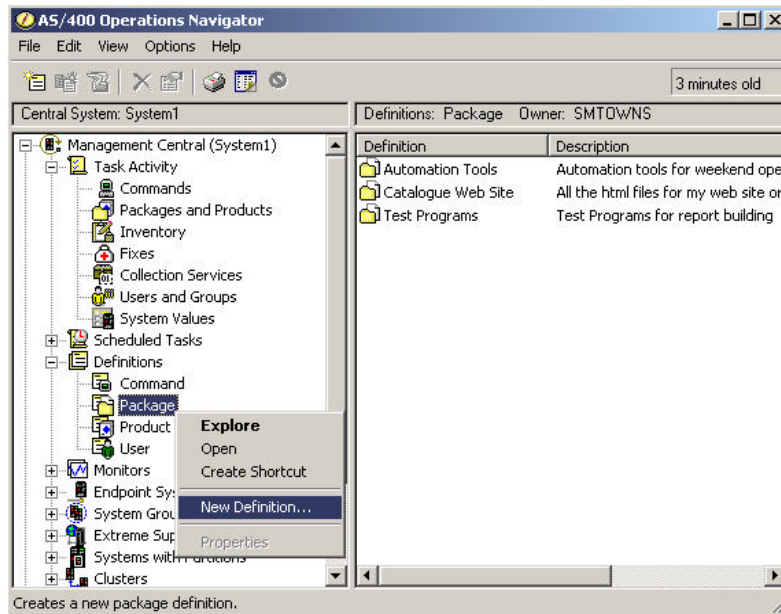
IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Define Package

Select a new definition from *Definitions > Package*

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Define Package

IBM @server iSeries

On the New Package Definition General properties page:

- Type in the name of the new package definition.
- Type in a description of the new package definition.
- Select the source system.
- Specify the object by typing the name of a object or click 'Add' to select objects from a list.

Remember: The source system is the system where the objects exists and will be obtain from by the target systems.

Select the Add button to add files, libraries and directories to your package. The only restriction is you must stay within the same file system type. For example, you can not mix libraries and ifs directories.

Click the box in front of each object to send. This puts an "x" in each object's box and in the library's box.

Click the box in front of a library to select all of the objects it contains.

Click OK.

The objects selected are shown in the Selected files and folders list:

- The left side shows each source path.
- The right side shows each target path.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Define Package

The 'New Package Definition' dialog box is shown with the 'General' tab selected. The 'Name' field contains 'My Tools', the 'Description' is 'All the files for my development tools', and the 'Source system' is 'System2'. A table lists source and target paths:

Source Path	Target Path
/mytools/file1	/mytools/file1
/mytools/program1	/mytools/program1

The 'Add' button is highlighted with a red arrow pointing to the 'Add Files and Folders - System2' dialog box. This sub-dialog shows a file tree with 'program1' selected. The IBM logo and slogan 'IBM @server. For the next generation of e-business.' are at the bottom.

Define Package

Property - Options

The 'My Tools Properties' dialog box is shown with the 'Options' tab selected. The 'Advanced' button is highlighted with a red arrow pointing to the 'Advanced Options' dialog box. The 'Advanced Options' dialog box contains the following settings:

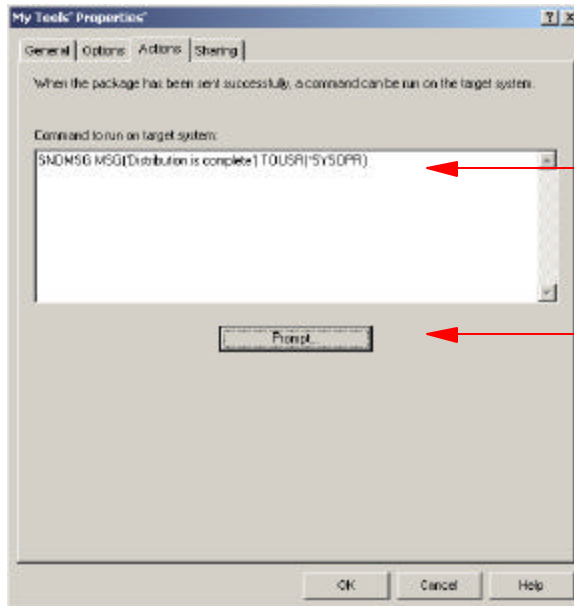
- Target release:
- Continue save if some objects cannot be saved: Yes
- Save objects while they are active: No
- Allow object differences on restore: No

The IBM logo and slogan 'IBM @server. For the next generation of e-business.' are at the bottom.

Define Package

Actions

IBM @server iSeries



After distribution

Like F4 - prompt



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Define Package - Options/Actions

IBM @server iSeries

Properties -- Options

- Use the Options page to specify additional options for this package definition. You can specify whether to keep existing files or replace them when a file already exists on the target system. You can also specify whether to include subfolders when packaging and sending folders that have subfolders. Click Advanced to specify actions to be taken when creating a snapshot or when you are sending QSYS objects or Integrated File System (IFS) directories.

Advanced Options

- Use the Advanced Options dialog to specify the following save and restore options for objects:
 - You can specify the release the files are intended for, when you are distributing files to a system that is running on any earlier release of OS/400 that supports sending files and folders using Management Central.
 - You can specify whether to continue the save operation when some objects in a library cannot be saved; for example if you are not authorized to one of the files for a library listed in the definition, you may not want to send any files.
 - You can specify whether an object can be saved while it is in use; for example, you may want to allow a file to be used by another application program while you are saving it.
 - You can specify whether certain differences that are encountered during a restore operation are allowed; for example, if the user profile that owns one of the files you are sending does not exist on the target system, you may still want to send the file and set the owner to a default value.

Properties -- Actions

- Use the Actions page to specify a command to be run on the target system when this package has been successfully sent. Click Prompt to get assistance in entering or selecting a command.
- Ideas may include install programs, validation programs, sending messages...

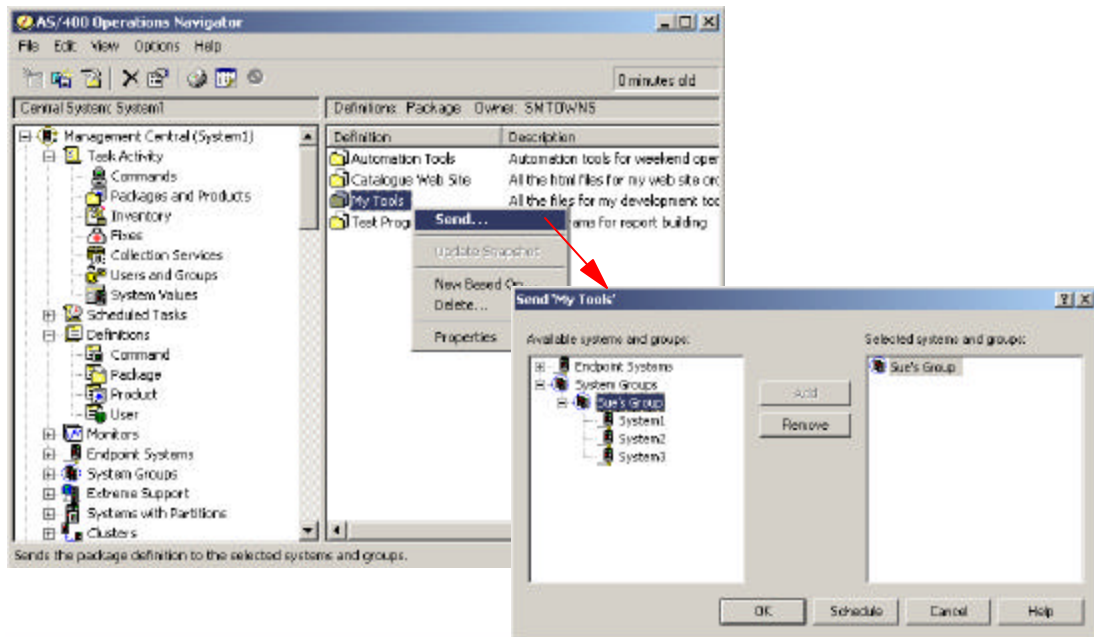
IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Send Package

Select the definition and target systems

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Send Package

IBM @server iSeries

Distribution once the package is defined, it can be sent multiple times.

To send a package:

Select the Package container within the Definitions container.

Right click on the package definition and select Send.

Select the systems and groups to send the package to:

- Click a system or group
- Click add

Click OK to send it now (Click Schedule to send it later)

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Send Package

Check on the status of the send

IBM @server iSeries

The screenshot shows the AS/400 Operations Navigator interface. In the left pane, the 'Task Activity' folder is expanded, and 'Send My Tools' is selected. A red circle highlights this task, and a red arrow points from it to the 'Send My Tools' Status window. The status window shows the overall status as 'Failed on 1 of 3 systems' and lists the target systems and their individual statuses.

Target Systems and Groups	Status
Sue's Group	Failed on 1 of 3 systems
System1	Completed
System2	System ignored - same as source system
System3	Completed

System1 - Details		
Source Path	Target Path	Status
(mytools\file)	(mytools\file)	Successful
(mytools\program)	(mytools\program)	Successful

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Distribution

IBM @server iSeries

Once the distribution is started its status can be tracked.

- Select Task Activity to view the send task in the right pane.
- Select the task to see its status.

Task Status

The Task Status window shows the overall status of the task (for example, started on 1 of 2 systems). The window also shows the status of the current task on each system and group on which you have chosen to perform the task. For many tasks, you can select Task Output to see the job log and other printer output related to the task. You can stop active tasks if you are the owner or if the owner has selected controlled or full sharing.

For an explanation of the values shown for overall status, see Overall status values.

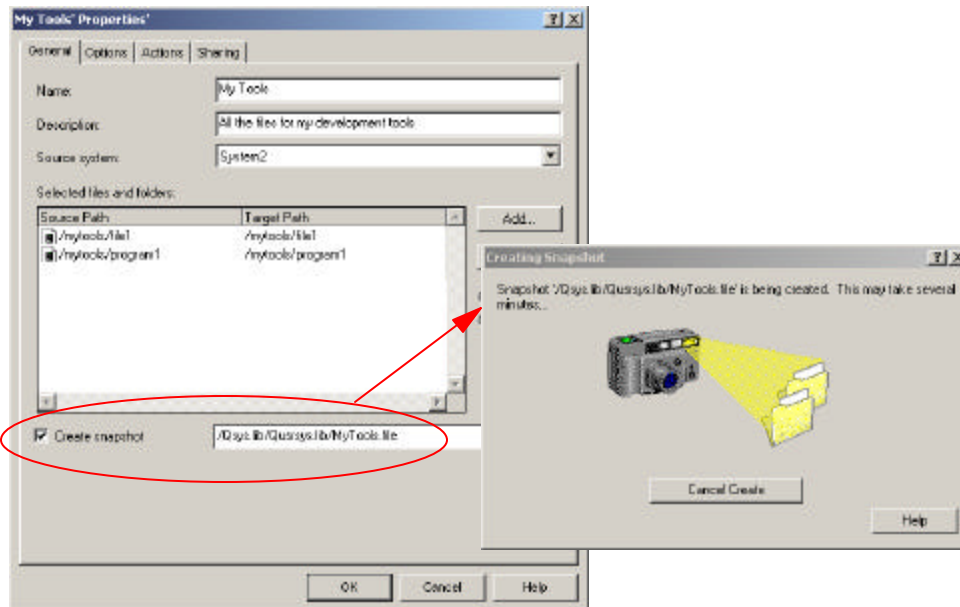
IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Define Package

Snapshot

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Snapshot

IBM @server iSeries

Capture the current version of the objects selected to send. Useful when sending the package definition several times, to avoid having to save them each time. Also useful when the selected objects are expected to change on your source system and the "original" version of those objects is what is desired to be sent to the target systems:

- Check the Create snapshot box.
- Change the save file path (optional).
- Click OK.
- Watch the animation.

When the snapshot animation completes the package definition is ready to send.
The snapshot can be updated as desired.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Product Packaging

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Product Packager Overview

IBM @server iSeries

Management Central's focus and features provide an ideal base for the product packager application.

Managing a product is easy with the Management Central product function. A product is an application program that has been packaged by using either the Management Central packaging function or the System Manager licensed program (SM1). The iSeries system provides management functions for software that is identified as a product. To use the management functions for your own software, the software must be identified to the iSeries system as a product.

You need to create a product definition before you can convert your application into a product that the iSeries system identifies as a product. A product definition contains all the information that you need to send and install a product across multiple systems. A product definition also gives you the ability to manage fixes for the product. The source system on which you create the product definition is used to manage the product. Once you create a product definition, you can install and generate fixes on the source system. You can also send and install the product on other systems.

The send and install function extends the OS/400 product management capabilities in multi-system enterprises.

The other functions round out the application.

- Install user defined products
- Manage user defined products

Life of a product:

- Create a definition
- Install that definition onto source system
- Test the product, change and reinstall as needed
- When you are done testing, send and install the product to other systems in your network
- Generate and manage fixes for the product
- Want a new version of the product, use new based on function.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

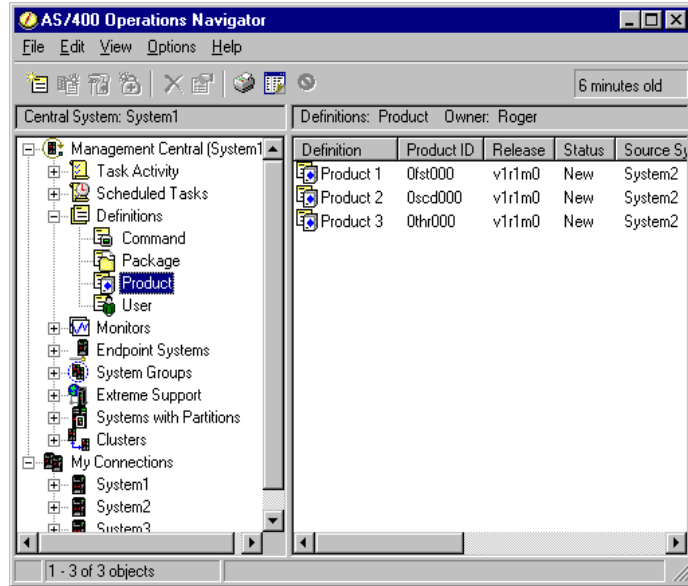
Product Packaging: Overview

Focus and Features

- Multiple systems as one
- Easy graphical interfaces
 - Wizards
 - Work from lists
- Scheduled tasks

Functions

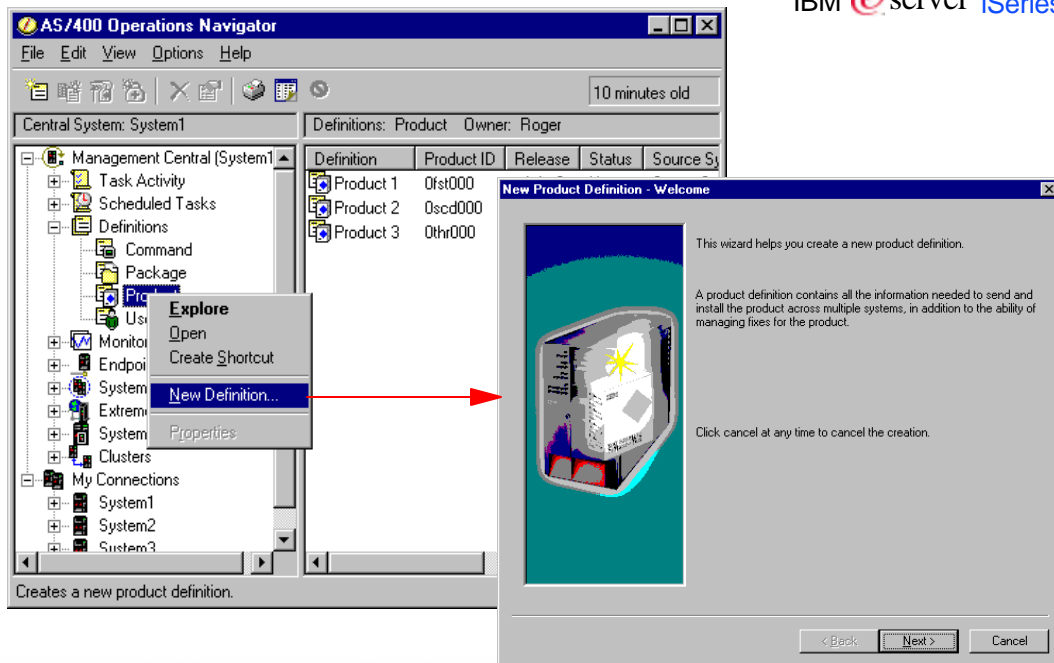
- Define a Product
- Install the Product
- Send and Install Product
- Generate a Fix



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Define A Product



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

New Product Definition - Identification

IBM @server iSeries

New Product Definition - Identification

How do you want to identify this product definition?

Name:

Description:

Product ID: (Example: 1a000)

Release: (Example: v1r1m)

Advanced...

< Back Next >

New Product Definition - Source System

A source system is the server that contains all the objects for this product.

What would you like to use as your source system?

Source system:

Note: The source system will be used to manage this product. At a later time, you can install the product and generate fixes on this system, as well as send and install the product onto other systems.

< Back Next > Cancel

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Notes: New Product Definition - Identification

IBM @server iSeries

Identify the product you need to create, as well as the system on which the source for the product exists.

Identify the product:

- Name of the product definition -- this is the name by which the definition is known to Management Central
- Provide a description of the definition to be used by Management Central
- Provide a product ID that will be used by both Management Central and the AS/400 system. This is the product ID that would be displayed by entering the "green screen" command Display Software Resources (DSPSFWRSC).
- Provide a product release that will be used by both Management Central and the AS/400 system. This is the release that would be displayed by entering the "green screen" command Display Software Resources (DSPSFWRSC).
- Press Next button

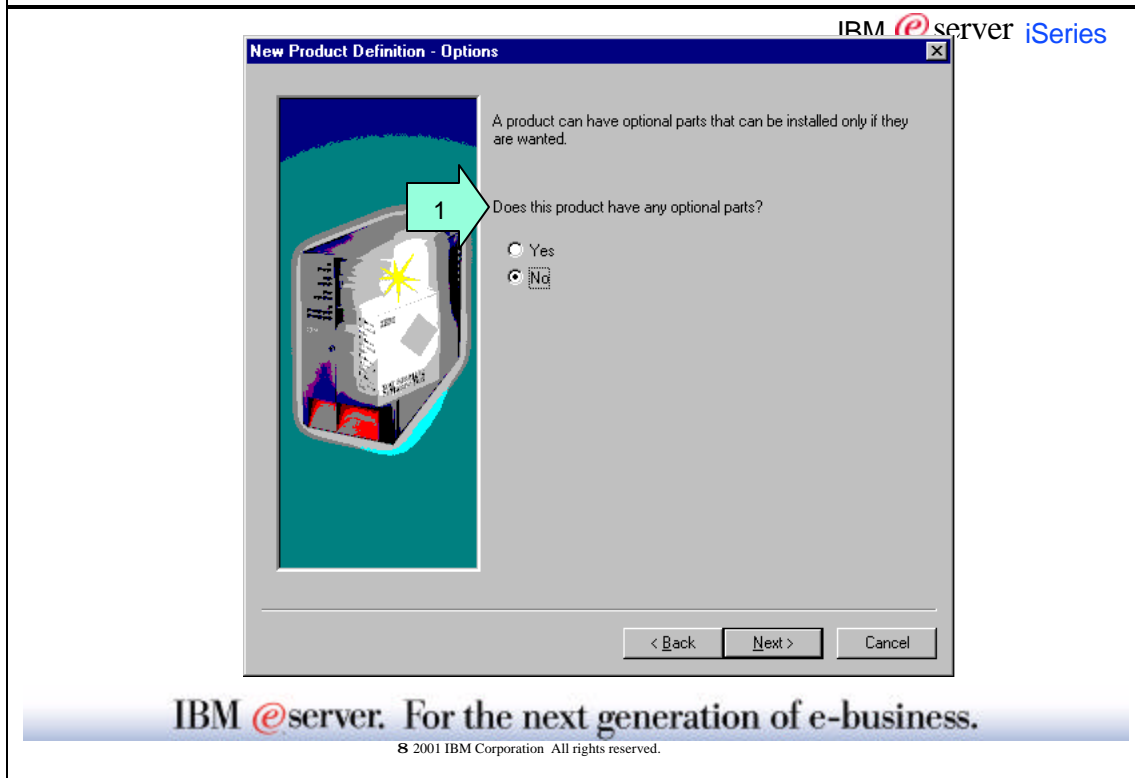
Identify the source system:

- The pull down list should initially be positioned to the central system, or if you've created a product definition in the past, the list should be positioned to the previous source system. The source system contains the contents of your product and is the system on which you will eventually install your product.
- Press Next button

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

New Product Definition - Options



Notes: New Product Definition - Options

IBM eServer iSeries

All products have at least the base option. The base option contains all the code that is required to be on the system for the product to run. More complex products have optional parts that users can choose to install if the optional function is needed. In most user defined products, only the base option is part of the product.

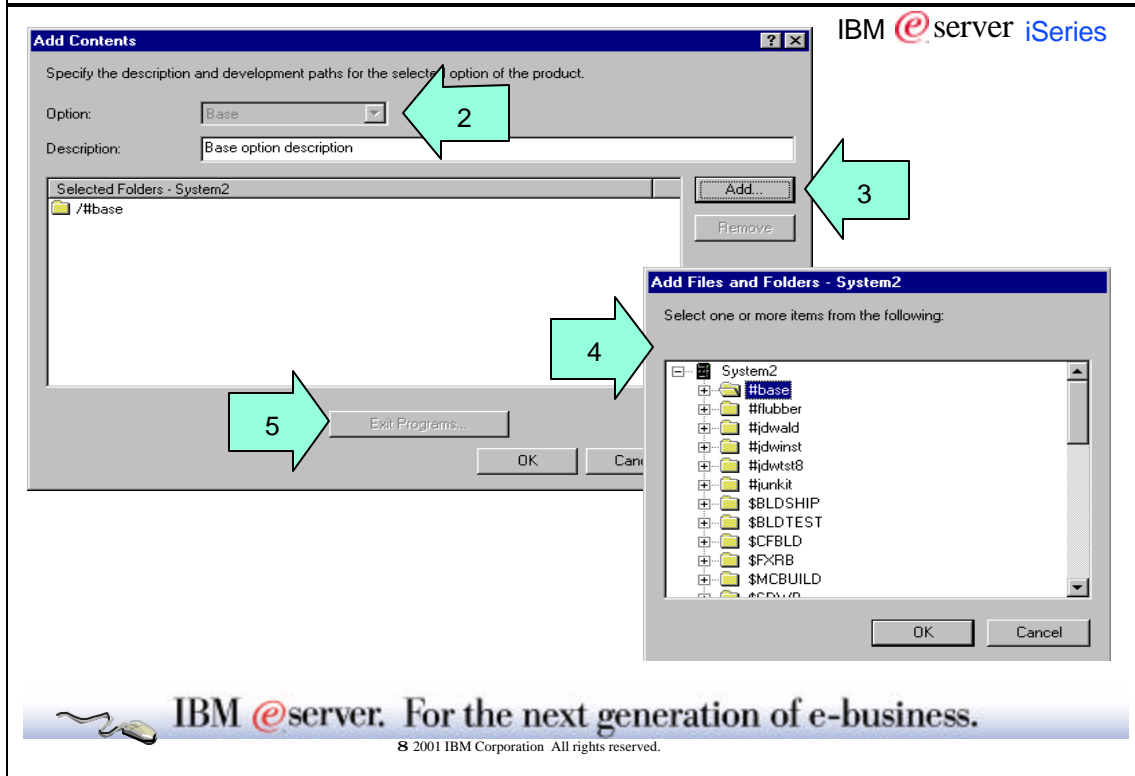
1

Indicate there are no options to define.
Press Next button

IBM eServer. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

New Product Definition - Add Contents



Notes: New Product Definition - Add Contents

IBM @server iSeries

To define the base option (or any optional code portion of your product definition), fill in the Add Contents panel.

Add Contents:

2

Give your option a description

3

Click on the "Add" button to bring up the browse files and folders dialog. Use this dialog to identify those folders that make up the contents of the option

4

To select a folder that makes up the contents of the option, click on the folder to highlight it, and click OK. Note, you cannot multi-select folders. If you need to identify more than one folder for the option, select the first folder, and click OK. Then click "Add" a second time, and find the second folder and click OK.

5

For QSYS libraries you can choose exit programs.

When all folders for the option you are defining have been identified, click OK from the Add Contents panel.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

New Product Definition

New Product Definition - Multiple Languages

A product can have multiple languages that can be installed only if they are wanted.

Does this product have multiple languages?

Yes
 No

< Back Next >

New Product Definition - Use Licensing

Do you want to control this product with licensing, or do you want to give users unrestricted access to this product?

Yes, use licensing
 No, users have unrestricted access

< Back Next > Cancel

IBM @server iSeries

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation. All rights reserved.

New Product Definition

Summary

New Product Definition - Summary

You are now ready to create the following product definition:

Name: Presentation Definition
Description: For presentation
ID: Oprs000
Release: v1 r1 m0

Product contents:
[Dese]

Source system: System2
Licensing: No

Click Finish to create the product definition.

< Back Finish Cancel

IBM @server iSeries

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation. All rights reserved.

New Product Definition

Create Complete, ready for install

IBM @server iSeries

The screenshot shows the AS/400 Operations Navigator interface. On the left is a tree view of the system hierarchy. The main window displays a table of definitions:

Definition	Product ID	Release	Status
Presentation Definition	0prs000	v1r1m0	New

A context menu is open over the 'Presentation Definition' row, with the 'Install...' option selected. An arrow points from this menu to a 'Install Product - Welcome' dialog box. The dialog box contains the following text:

This wizard helps you install or redeploy definition Presentation Definition onto System1.

Installing this product definition allows you to test your product before sending and installing it on other systems. Once defined, the definition can be changed and installed again if needed.

Click cancel at any time to cancel the install.

Buttons: < Back, Next >, Cancel

IBM @server. For the next generation of e-business.
 © 2001 IBM Corporation. All rights reserved.

Install Product

How to Install

IBM @server iSeries

The screenshot shows the 'Install Product - How To Install' dialog box. It contains the following text:

If the product is already installed on the target system, what would you like to do?

- Upgrade any previous release to this current release.
- Keep the existing product and install this product. There will be multiple releases of the same product installed.

Buttons: < Back, Next >, Cancel

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Install Product

IBM @server iSeries

Add Install Paths

You selected to upgrade any existing releases of this product to:

Verify these install paths match the existing install paths. If they match, then the upgrade will not occur, and both releases will be on the system.

The selected options will be installed in the following install paths:

Option	Development Path	Install Path
<input checked="" type="checkbox"/> Base	/base	/testprod

View Contents... Change Paths...

< Back Next > Cancel

The following are all libraries and paths that will be used to install the selected options. You may change the install paths if you wish. An install path must not match the development path for a component.

Option	Development Path	Install Path
<input checked="" type="checkbox"/> Base	/base	/testprod

OK Cancel Help

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Notes: Install Product - Add Install Path

IBM @server iSeries

Select a development path for a particular option and click view contents. A dialog will appear showing what objects are in the development path.

To add/change install paths, click on the changes paths button. The first time you install the product, the Add Install Path dialog will come up automatically.

The Change Install Paths dialog appears. Select a row under the Install Path column, and type what you want the install path to be. Any install path cannot be the same as any development path. QSYS development paths must be installed into QSYS. IFS paths must be installed into IFS. Click OK when you have all your install paths entered.

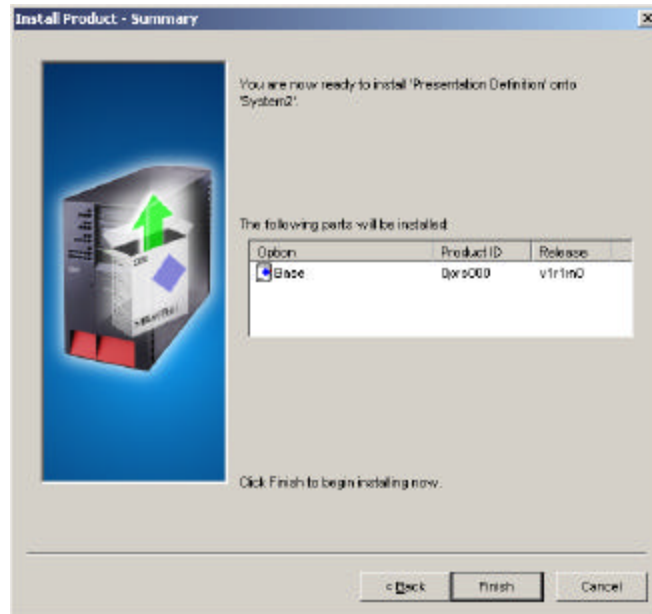
Click Next.

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Install Product

Summary

IBM @server iSeries

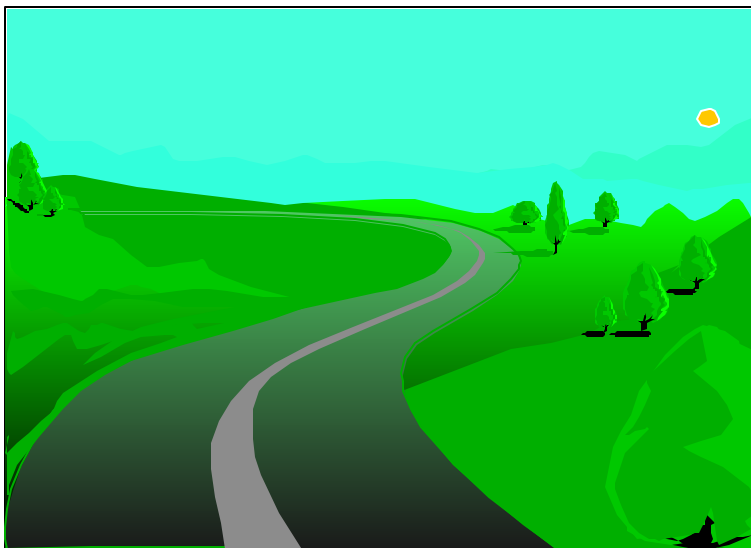


IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Almost there...

IBM @server iSeries



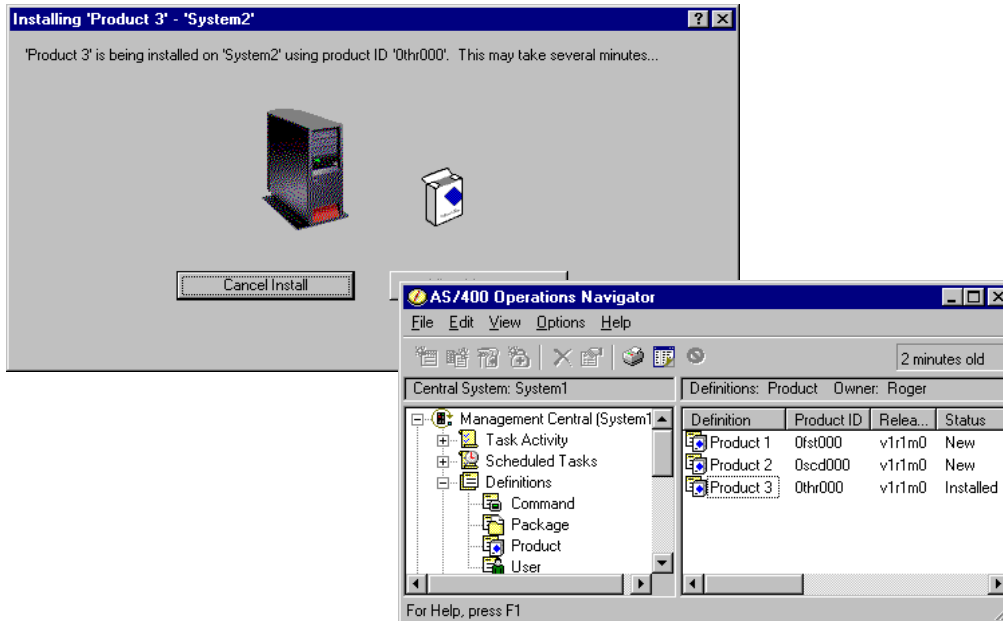
IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Install Product

Animated Dialog

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Install Product

IBM @server iSeries

An animated dialog will appear while the product definition is installing. Click Cancel to end the install. If errors occur, click View Messages to read more about the problem.

After the definition is successfully installed, the status of the definition changes to "Installed" in the product definition container.

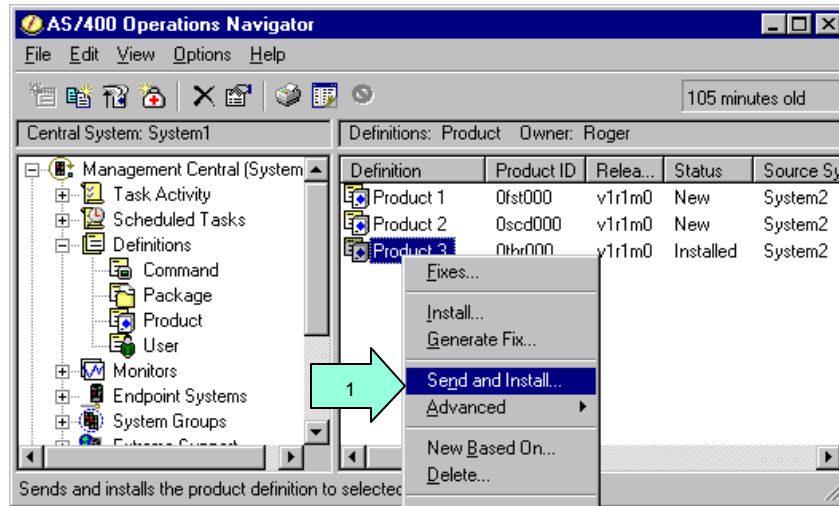
Once a product has been installed on the source system, you can change the product by editing the properties of the product definition. (You can change anything BUT the source system). After you make a change to the definition, the status of the product will revert to New, and you will need to install it again. When you are satisfied the development of your product is complete, you will want to distribute the product to other systems in your network.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Send and Install

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Send and Install

IBM @server iSeries

1. To Send and Install a product, right click on a Product Definition object, and select Send and Install. The Send and Install Wizard is displayed. Only product definitions that have a status of Installed or Managed can be sent and installed. Only fixes that have been applied are sent when you send and install a product. You can also send and install products that are listed under the Installed Products container of the Management Central software inventory for an endpoint. Because the product is installed on the source system, the product is available to be managed. A status of Managed means that the definition can no longer be changed. To make any changes to the product for the current release requires that you generate a fix.
2. The Send and Install wizard leads the user through the process of sending the product to multiple systems and installing it on them.
3. Choose which target systems you want to send and install the product to. Click Next.
4. The install path page shows the options, and the development and install paths for those contents of those options.
5. Click Change Paths to change the install paths. Click OK when the install paths are correct. Click Next.
6. You can choose to run a command on the target system after the product has been installed. For example, perhaps you need to create a user profile on each target system after the product has been installed. Click Next.
7. Verify your selections for:
 - Target Systems
 - Options to Send and Install
 - Command to run
 - Click Finish.

A send and install task is created. It will show up in the packages and products task container.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Send And Install

Welcome information and Target systems

IBM @server iSeries

Send and Install Product - Welcome

This wizard helps you send and install software on target servers.

The product will be sent to the target systems.

Click cancel at any time to cancel the operation.

< Back

Send and Install Product - Target Systems

On which systems and groups do you want to send and install the selected product?

- System3

Browse... Remove

< Back Next > Cancel

IBM @server. For the next generation of e-business.
 © 2001 IBM Corporation All rights reserved.

Send And Install

Install Path

IBM @server iSeries

Send and Install Product - Install Path

Sending and installing this product will upgrade any existing release on the target systems.

Verify these install paths match the existing install paths. If they do not match, then the upgrade will not occur, and both releases will be installed on the target systems.

The selected options will be installed in the following install paths:

Option	Development Path	Install Path
Base	/QSYS.LIB/PROD1.LIB	/QSYS.LIB/PROD1.LIB

View Contents... Change Paths...

< Back Next > Cancel

Change Install Paths

The following are all libraries and paths that will be used to install the selected options. You may change the install paths if you wish. An install path must not match the development path for a component.

Option	Development Path	Install Path
Base	/QSYS.LIB/PROD1.LIB	/QSYS.LIB/PROD1INST.LIB

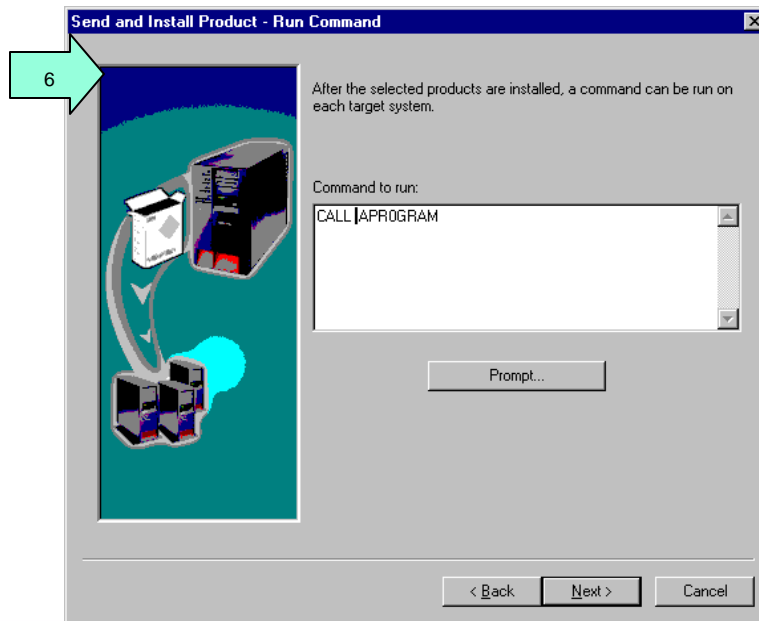
OK Cancel Help

IBM @server. For the next generation of e-business.
 © 2001 IBM Corporation All rights reserved.

Send And Install

Run Command

IBM @server iSeries



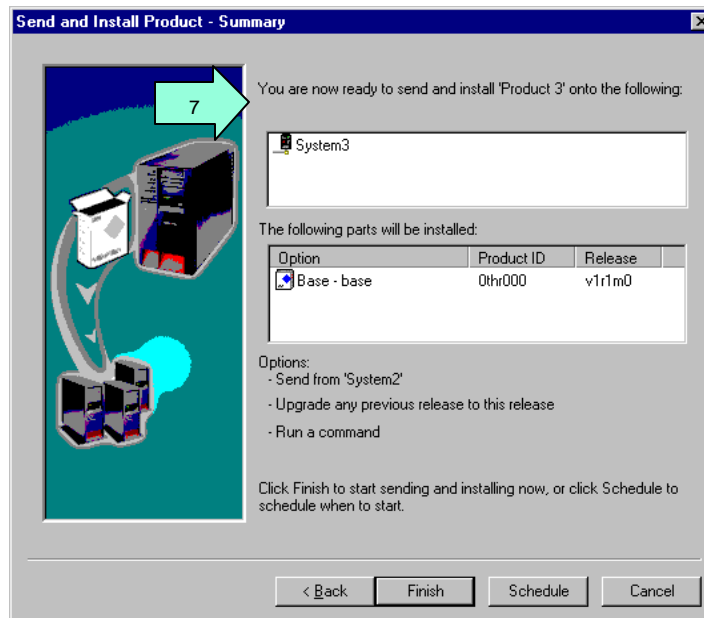
IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Send and Install

Summary

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Send and Install

Task

IBM @server iSeries

AS/400 Operations Navigator

File Edit View Options Help

Last changed: 12/27/00 1:19 PM

Central System: System1 Task Activity: Packages and Products Started by: Roger

Task	Status	Systems and Gr
Send and install 'Product 3'	Starting - preparin...	System2

Send and install 'Product 3' Status

File Help

Status: Started Source system: System2

Target Systems and Groups	Status
System3	All items received - installing product...

'System3' Details

Product ID	Release	Status
0thr000	v1r1m0	Installing...

Ready



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Send and Install

Task complete

IBM @server iSeries

AS/400 Operations Navigator

File Edit View Options Help

3 minutes old

Central System: System1 Definitions: Product Owner: Roger

Definition	Product ID	Relea...	Status	Source System	Last Cha
Product 1	0fst000	v1r1m0	New	System2	12/22/0
Product 2	0scd000	v1r1m0	New	System2	12/22/0
Product 3	0thr000	v1r1m0	Managed	System2	12/27/0

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Send and Install - Task

IBM @server iSeries

A Send and Install task will appear in the Packages and Products task container. Right click on the task to work with it

Right click on the task and select Status. You can see the detailed status of the product you sending and installing

After a product definition has been sent to other systems, the status of the definition becomes Managed. You can no longer change the contents of the definition, only the name and description.

To make corrections to a product you have defined that is in managed state, you'll need to generate a fix for it. After a fix is generated, you can perform all existing (V4R4 or greater) fixes management actions against it, like install, send, uninstall, and the like. On your AS/400 system, you can see the newly generated fix by entering the DSPPTF command

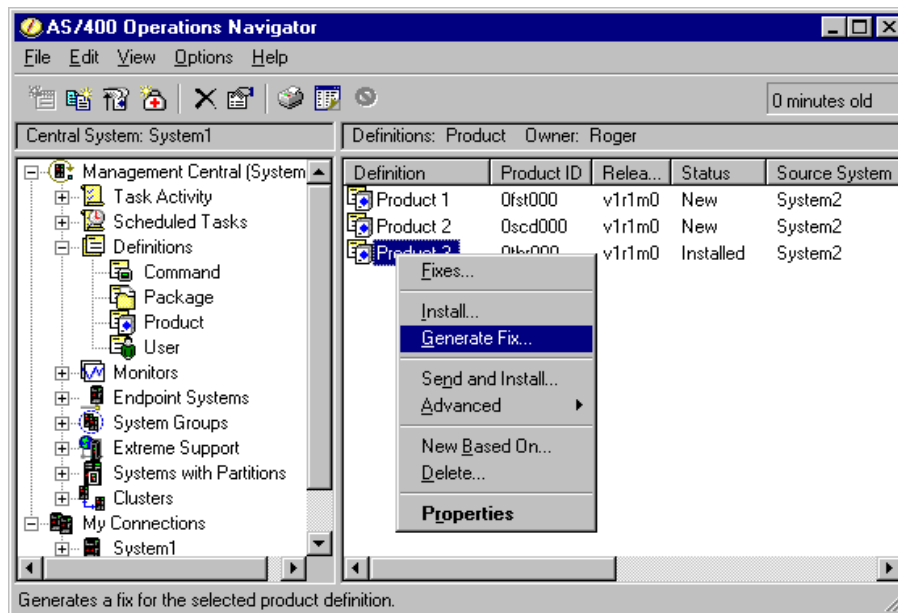
IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Generate Fix

Make a fix to a problem

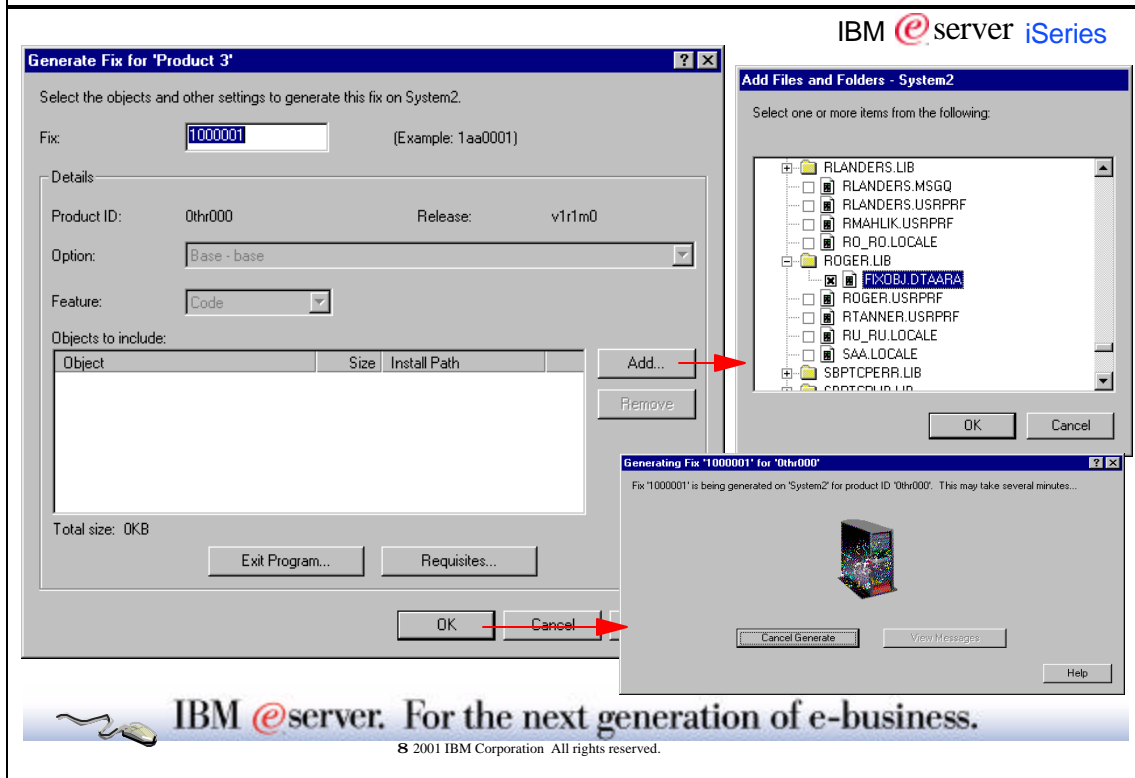
IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Generate Fix...



Notes: Generate Fix

IBM eServer iSeries

Generate a fix:

- Select a fix id. Management Central will default a fix id for you, that you can change as needed.
- Click on Add to add objects to your fix. Fixes cannot contain a mixture of QSYS and IFS objects.
- Select the boxes in front of the objects you want to be in your fix. Click OK
- You can add an exit program that will run before and after the fix is installed. Type in the name of the program (NO .pgm suffixes needed) and the library (NO .lib suffix is needed) or browse to find your exit program.
- Add corequisite and prerequisite fixes as needed, you can browse for these as well.

When you click OK on the Generate Fix dialog, an animated dialog appears while the fix is being created. Click cancel to stop creating the fix. If errors occur, the View Messages button will become enabled. Click on the button to view more information.

When the fix is created successfully, it will automatically be added into the Management Central fixes inventory for the source system, where you can manage the fix. Or you can right click on your product definition and select Fixes. This will bring up a window with all fixes for that product. You can manage your fixes from this window as well.

From the product definition, you can right click and choose Fixes. This will bring up a window of all fixes for that product. You can manage your fixes from here.

NOTE: You can also manage your fixes under a Management Central Endpoint System or Group. After fixes are generated, they are automatically inserted into the Management Central Inventory.

IBM eServer. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Fixes

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Better Instructions

IBM @server iSeries

According to the Knight-Ridder News Service, the inscription on the metal bands used by the U.S. Department of the Interior to tag migratory birds has been changed. The bands used to bear the address of the Washington Biological Survey, abbreviated:

Wash. Biol. Surv.

until the agency received the following letter from an Arkansas camper:

"Dear Sirs:

While camping last week I shot one of your birds. I think it was a crow. I followed the cooking instructions on the leg tag and I want to tell you, it was horrible."

The bands are now marked Fish and Wildlife Service.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Managing Fixes: Overview

Focus and Features

- Multiple systems as one
- Easy graphical interfaces
- Scheduled tasks

Functions

- Collect
- Compare and update
- Send and install
- Cleanup
- Uninstall
- Cancel actions
- Copy from media
- Search inventory



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Managing Fixes

IBM @server iSeries

Management Central's focus and features provide an ideal base for the fix management application.

The application's star functions extend the OS/400 PTF Management capabilities in multi-system enterprises.

The other functions round out the application.

Cleanup deletes the save files and cover letters for selected fixes.

Uninstall completely removes the selected fixes or changes their status to "Available."

Cancel actions cancels any install or uninstall action set to occur during the next restart of the system.

The sample wizard and list screens are explored later.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Collect Fix Inventory

AS/400 Operations Navigator

Management Central (System1)

Collect Inventory - Sue's Group

Inventory to collect:

- Hardware
- Software
- Fixes
- System values
- Users and Groups

Actions to run on central system when collection completes:

OK Schedule Cancel Help

Collects inventory on the selected systems and groups.

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation. All rights reserved.

Collect Fix Inventory

Management Central Scheduler

When to run:

- Once
- Daily
- Weekly: Sunday
- Monthly: First day

Date to start: 5/5/2001

Time to start: 1:00:00 AM

Summary: Run weekly every Sunday starting on 5/5/2001 at 1:00:00 AM

OK

AS/400 Operations Navigator

Scheduled Tasks: Inventory Scheduled by: All

Task	When to Run	Next Run	Systems and
Collect Inventory	Weekly	5/6/2001 1:00:00 AM	Sue's Group

Task Scheduled

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation. All rights reserved.

Notes: Collect Fix Inventory

IBM @server iSeries

Need an up-to-date view of the fixes on the systems to be managed.

Collect inventory:

- Right click on a group.
- Select Collect from the Inventory sub-menu.
- Select Software inventory and Fixes inventory. (Collecting fixes requires that you collect software)
- Clicking OK to collect the inventory immediately or Schedule to specify a date/time

This will create a Task Activity or Scheduled Task depended on if you selected OK or Schedule.

To ensure your inventory is always up-to-date, it is recommended you select the schedule button to set up a regular schedule for collecting.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Choose your words carefully

IBM @server iSeries

A little boy went over to his grandpa and asked "Grandpa, can you croak?" The grandpa looked at his grandson with a perplex look on his face. He answered, "Yes, I can croak". The little boy's eyes twinkled and with a giant smile asked, "Can you croak now?". His grandpa even more perplex said "Yes, but why do you ask?". "Well", said the little boy, "Grandma said after you croak we will go to Disney World."

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Compare and Update

IBM @server iSeries

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Notes: Compare and Update

IBM @server iSeries

Once a model system has all the desired fixes installed, the fixes on that model system can be replicated across multiple target systems within the enterprise.

Compare and update:

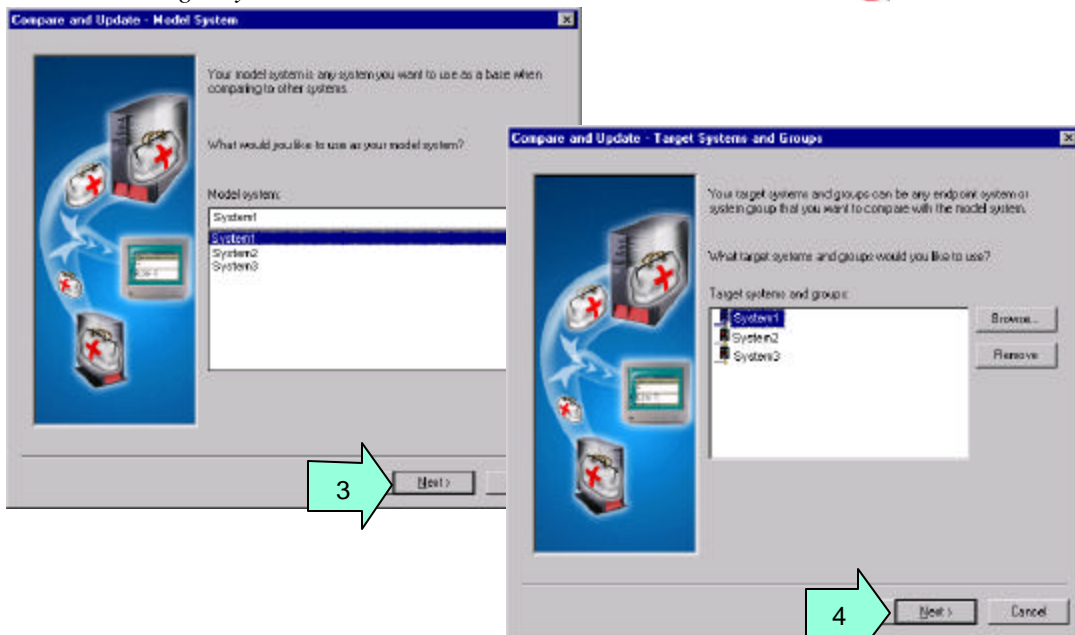
- 1
Select your systems and right click.
- 2
Compare and Update wizard leads through a selection process to retrieve a list of fixes that are installed on the model system and not installed on the target systems. That list can be installed or just viewed and printed. In addition, fixes that are present on the target systems but not installed on the model system can be view as well.
Click Next.

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Compare and Update

Model and Target Systems

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Compare and Update

IBM @server iSeries

The Compare and Update wizard leads through model and target system selection.

Specify your model and target systems:

3

Select your model system from the drop down list.
Click Next.

4

Click Browse and select target systems.
Remove model system from the target list if desired.
Click Next.

The wizard starts out with the last used model system.
The wizard starts out with the target systems selected in step 1.

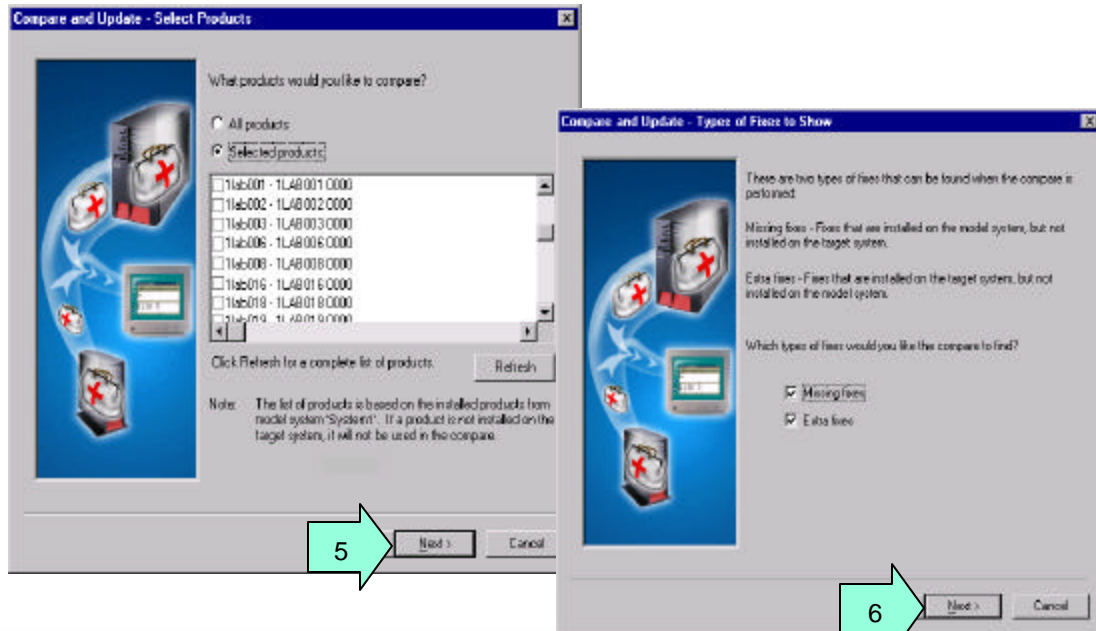
IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Compare and Update

What to search for...

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Compare and Update

IBM @server iSeries

The Compare and Update wizard considers installed fixes for all or some of the products that are installed on the model and allows selection of the fixes that are not installed on the target systems.

Select which product's fixes to compare:

Note: In V5R1, the list of fixes to compare is not retrieved from the central system inventory until the "Selected products" radio button is selected. At that time, the list of products is selected. If the compare and update wizard is run a second time, only the products that had been previously selected are shown. To see a list of all products, press the refresh button.

5
"All products,"
select products
Click Next.

Choose what type of fixes to show:

Note: The Compare and Update Fixes Wizard has always shown fixes that were present on the model system, but missing on the target systems. In V5R1, users can now view "Extra" fixes that are present on the target systems, but do not exist on the model system.

6
show missing fixes,
show extra fixes.
Click Next.


IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Compare and Update

Actions to occur...

IBM @server iSeries


IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Notes: Compare and Update

IBM @server iSeries

The Compare and Update wizard offers a choice whether to refresh the inventories before it starts the compare. The last collection date and time of the oldest inventory is displayed. Before the compare starts, a summary of selected information is displayed.


Choose what is to be done about the fixes that are not installed on the target systems:

7
 Just show them for now,
 or just send them,
 or send them and install them.
 Click Next.

If you choose now to just see the list, you'll have a chance later to choose other actions.

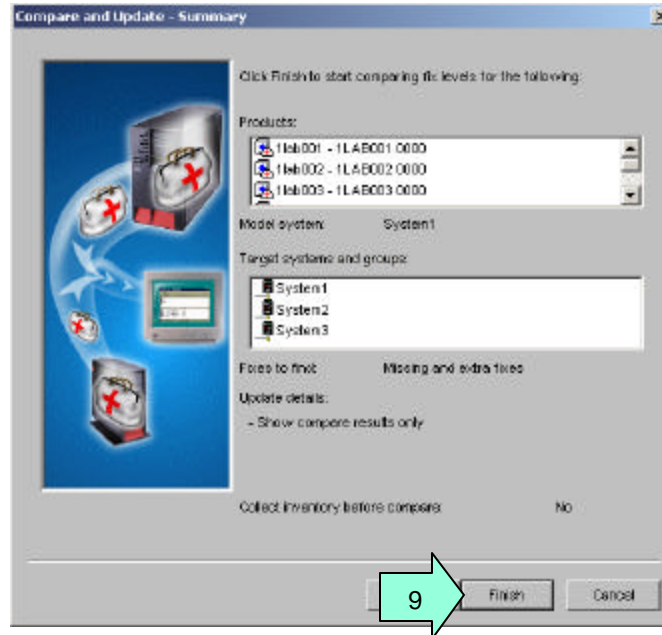
Choose whether to refresh the inventory:

8
 Yes, refresh inventory before the compare starts - or
 No, use the current inventory
 Click Next.


IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Compare and Update

Summary



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Notes: Compare and Update

IBM @server iSeries

Review the summary:

- 9
- Verify your selections for:
- Products
 - Model system
 - Target systems
 - What to do with the results
 - Whether to refresh the inventory first
- Click Finish.

If refresh is selected, the wizard waits while the software and fixes inventories are collected for all of the systems.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Compare and Update

Compare Results

IBM @server iSeries

The screenshot shows the 'Compare Results' window with the following data:

Target Systems	Comparison Status
System2	Completed
System3	Completed

Fix	Type	Product	Release
1ar0001	Extra	1lab003 - 1LAB003 0000	v5r1m0
1aa0001	Missing	1lab003 - 1LAB003 0000	v1r1m0
1ab0000	Missing	1lab003 - 1LAB003 0000	v1r1m0
1bb0000	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0001	Missing	1lab006 - 1LAB006 0000	v1r1m0
1cr0002	Missing	1lab006 - 1LAB006 0000	v1r1m0
1cr0002	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0003	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0004	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0006	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0008	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0009	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0010	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0011	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0012	Missing	1lab003 - 1LAB003 0000	v1r1m0
1cr0013	Missing	1lab003 - 1LAB003 0000	v1r1m0

430 missing fixes and 1 extra fixes for 'System2' compared to model system 'System1'

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

From the mouths of babes

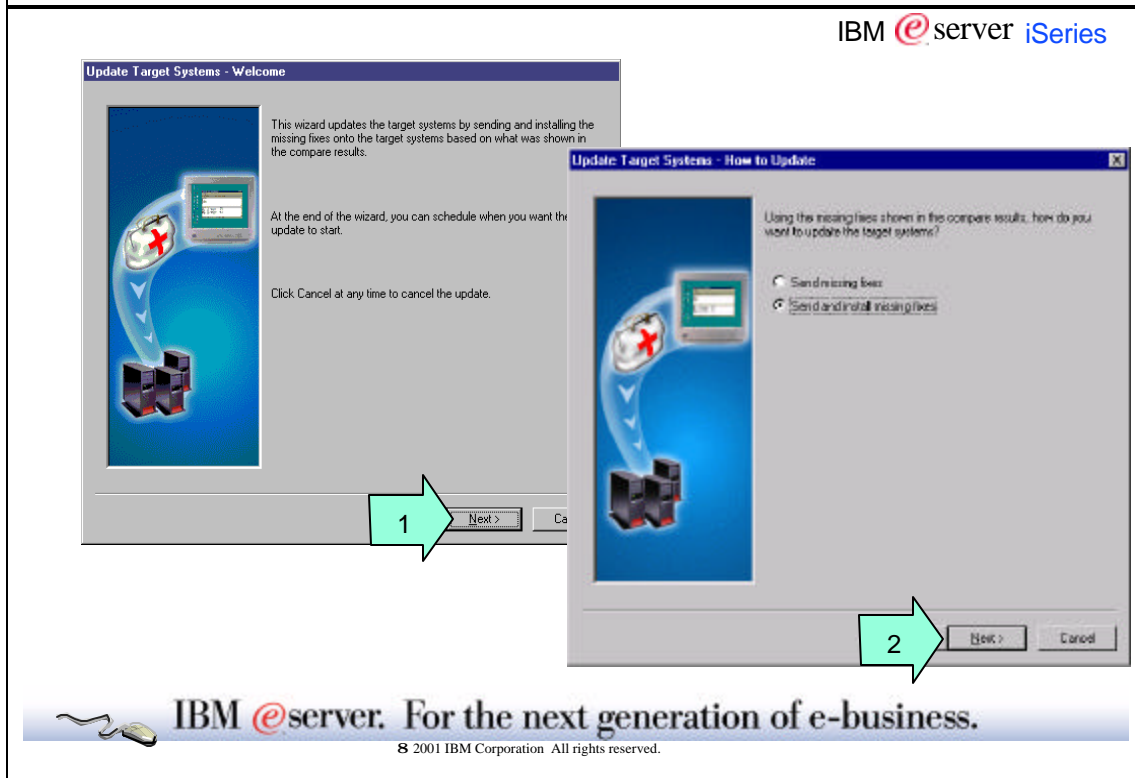
IBM @server iSeries

A small boy is sent to bed by his father. Five minutes later... "Da-ad..." "What?"" "I'm thirsty. Can you bring me a drink of water?"" "No. You had your chance. Lights out." Five minutes later: "Da-aaaad..." "WHAT?"" "I'm THIRSTY. Can I have a drink of water?"" "I told you NO! If you ask again, I'll have to spank you!!" Five minutes later... "Daaaa-aaaad..." "WHAT?!!"" "When you come in to spank me, can you bring me a drink of water?"

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Send and Install



Notes: Send and Install

IBM @server iSeries

The Update wizard uses the compare results to update the target systems with the missing fixes. Specify whether it only sends the fixes to the target systems or sends and installs the fixes. The wizard offers the choice to send and install now or to schedule it for later.

1

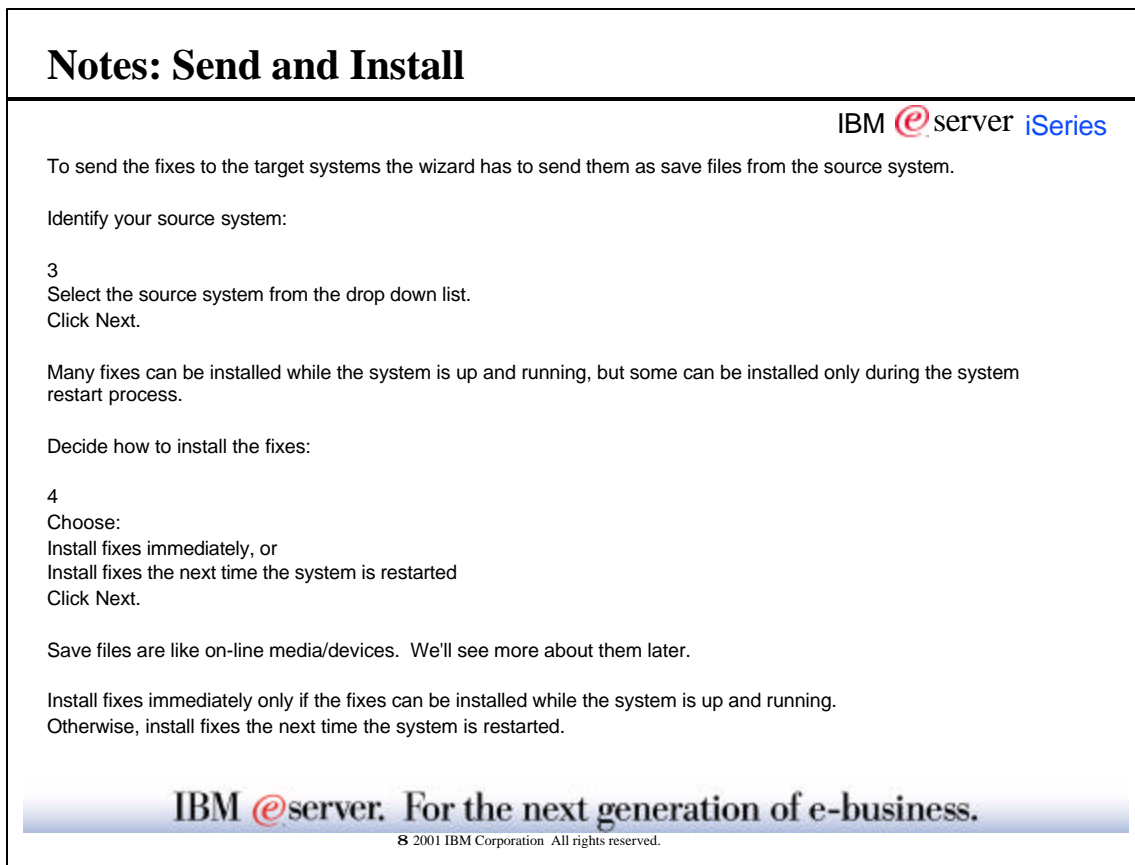
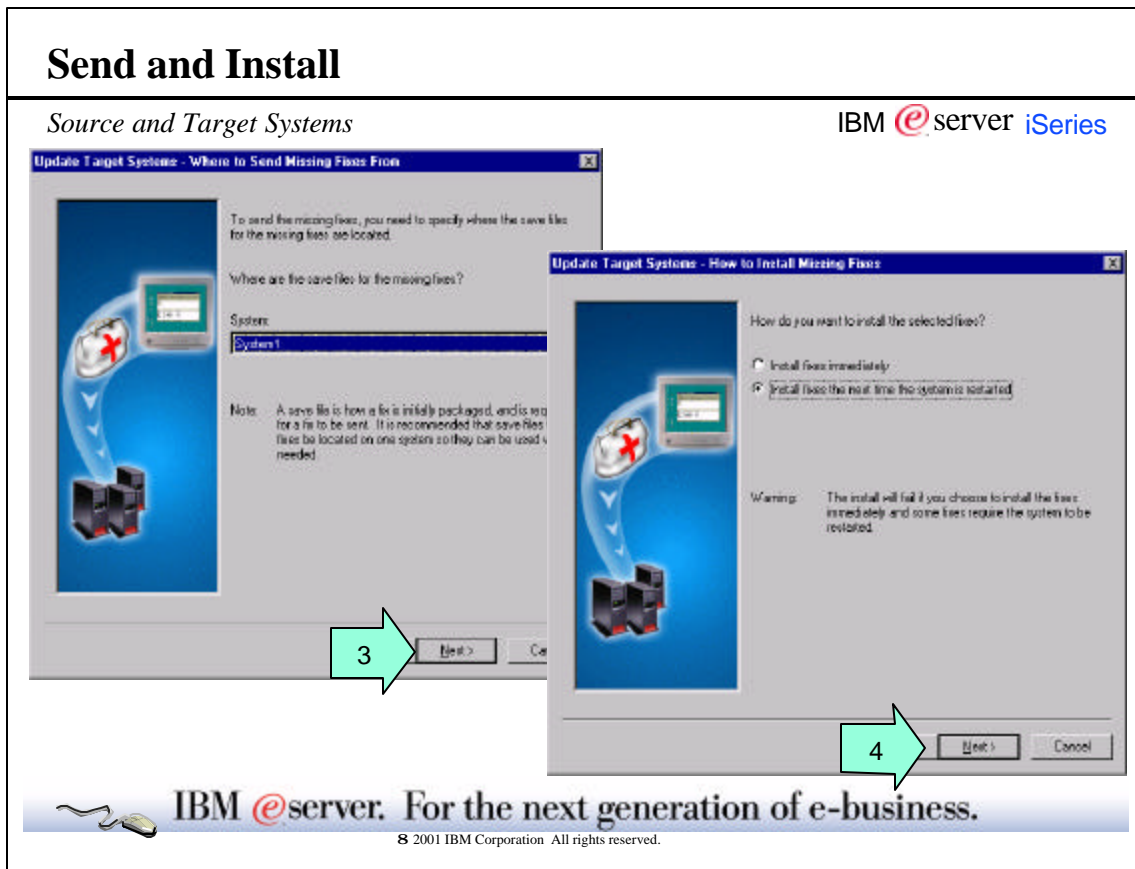
Click Next.

2

Choose what to do with the fixes:
Send the missing fixes, or
Send and install the missing fixes
Click Next.

IBM @server. For the next generation of e-business.

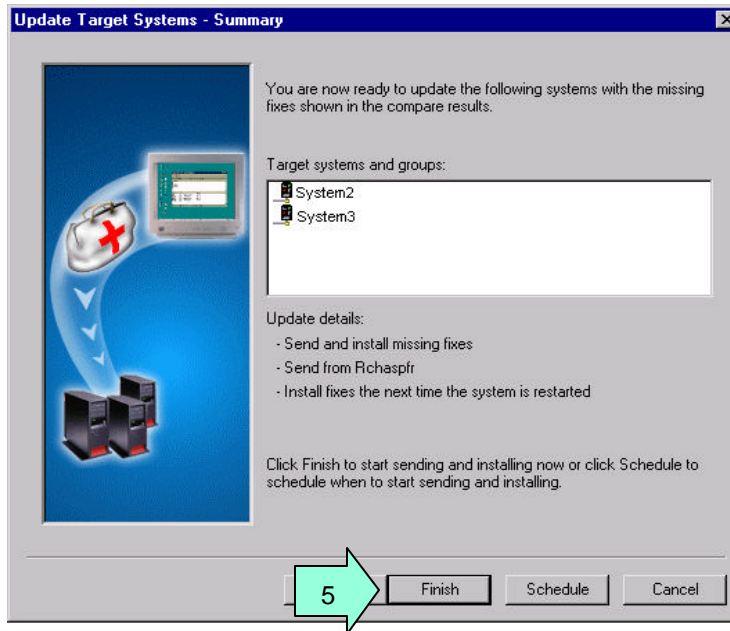
© 2001 IBM Corporation All rights reserved.



Send and Install

Summary

IBM @server iSeries



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Send and Install

IBM @server iSeries

Before it starts the send, the wizard displays a summary of selected information

Review the summary:

5

Verify:

Target systems and groups

Send only or send and install

Source system

Immediately or during next system restart

Click Finish.

Click Finish to start the send now. Click Schedule to start it later.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Send and Install

IBM @server iSeries

Task

AS/400 Operations Navigator

File Edit View Options Help

Central System: System1 Task Activity: Fixes Started by: All

Task	Status	Systems and Groups	Description	Started
Send and Install Fixes	Comple			

'Send and Install Fixes' Status

Status: Completed Send from: System1

Target Systems and Groups	Status
System2	Completed
System3	Completed

'System3' Details

Fix	Product	Release	Fix Status
1cr0001	1lab001	v1r1m0	Install at next restart
1cr0002	1lab001	v1r1m0	Install at next restart
1cr0003	1lab001	v1r1m0	Install at next restart
1cr0004	1lab001	v1r1m0	Install at next restart
1cr0005	1lab001	v1r1m0	Install at next restart

5 of 5 fixes received on 'System3'.

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Notes: Send and Install

IBM @server iSeries

Once the send is started, its status can be tracked.

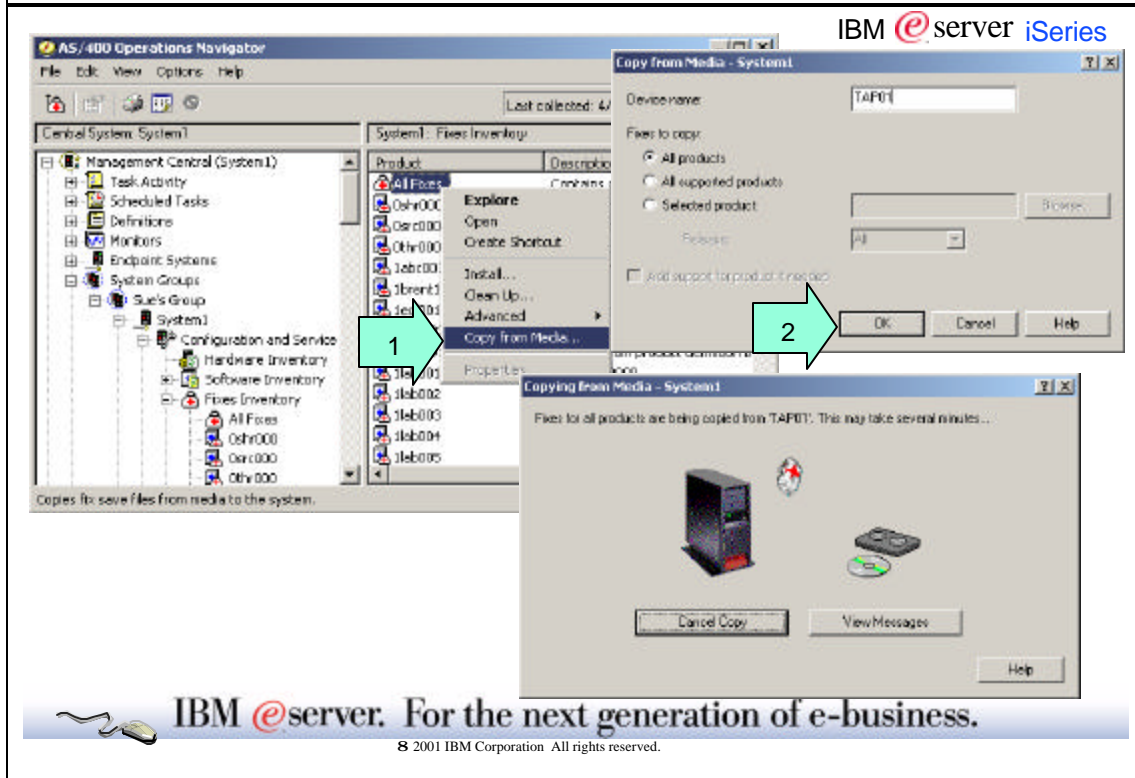
6
Select Task Activity to view the send task in the right pane.

7
Select the send task to see its status.

8
Select one of the target systems to see fix level details.

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Copy from Media



Notes: Copy from Media

IBM @server iSeries

To copy from media:

1

- Right click on "All Fixes", or any product.
- Select Copy from Media.

2

- Type in the name of the media device.
- Choose which fixes to copy:
 - Fixes for all products
 - Fixes for all supported products
 - Fixes for selected products

Click OK. Watch the animation.

To do anything with fixes the product save files must be located on the source system for distribution. Save files are like media/devices. The software product vendor puts fixes onto media or into save files. If the software product save files are located on the source system, but are not installed on the source system, those product save files can still be used for distribution to the target systems. To do so, designate the product as supported. The Copy From Media function offers the option of designating products as supported.

Several options are available for getting save files located on the source system.

- Send PTF Order (SNDPTFORD - 5769-SS1)
- Internet PTFs (IBM Web Sites)
- APIs
- Generate Program Temporary Fix Name (QPZGENNM)
- Log Program Temporary Fix Information (QPZLOGFX)
- Copy PTF to Save File (CPYPTFAVF - 5769-SM1)
- Copy from media (Management Central)

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Search Fix Inventory

IBM @server iSeries

The screenshot shows the AS/400 Operations Navigator interface. The 'Search' dialog is open, and the 'Search Fixes For' dialog is also open, displaying the following results:

Fix	System	Status	Product	Release
1000003	System2	Available	001000	v3r1m0
1000003	System2	Available	001000	v3r1m0

2 items found in central system inventory.

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Notes: Search Inventory

IBM @server iSeries

Once the scheduled inventory collection has completed the Central System will have an up-to-date view of the fixes on the target systems.

Search inventory:

- Right click on a group.
- Select Search from the Inventory sub-menu.
- Specify what to search and what to search for:
- Select Fixes
- Type in a search string. For example, a specific fix.
- Click on Search.

... See the search results.

Search string can use the asterisk (*) as a wildcard.
 The Fix and Product fields are scanned by the search Fixes.
 No advanced search options are available at this time.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Search Inventory

Export search results

IBM @server iSeries

The screenshot shows the Management Central interface with search results for fix 1000003. An 'Export to PC File' dialog is open, showing the file being saved as 'test.html' in the 'My Documents' folder. A red arrow points from the 'Export to PC File' dialog to the search results table.

Fix	System	Status	Product
1000003	System2	Available	0xib000
1000003	System2	Available	0bib000

Fixes Inventory:							
Fix	System	Status	Product	Release	Save File	Cover Letter	Last Changed
1000003	System2	Available	0xib000	v1rim0	Yes	No	
1000003	System2	Available	0bib000	v1rim0	Yes	No	



IBM @server. For the next generation of e-business.

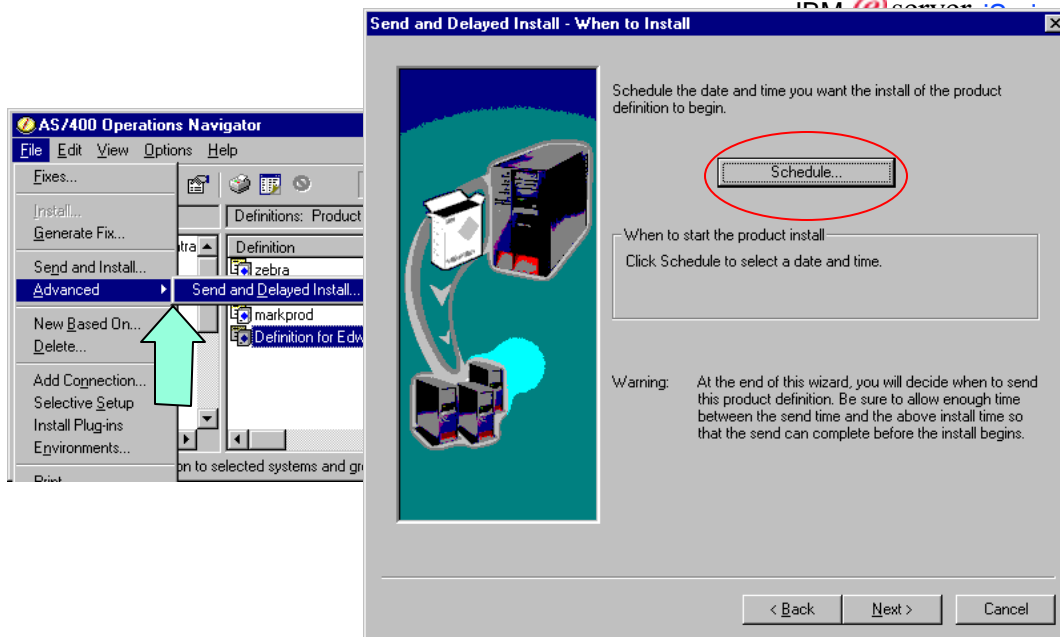
© 2001 IBM Corporation. All rights reserved.

Advanced Functions

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation. All rights reserved.

Advanced - Send and Delayed Install



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Advanced Send and Delayed Install

IBM @server iSeries

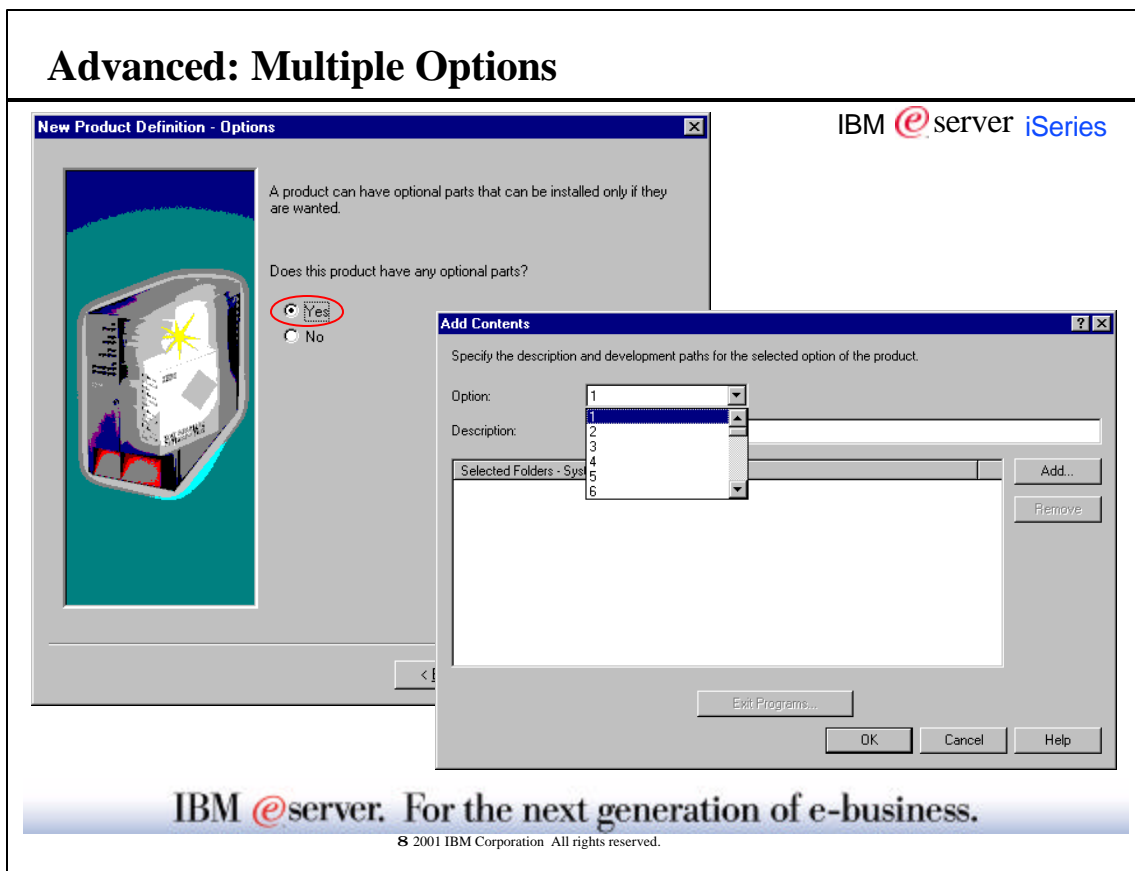
Send and Delayed Install

- You can choose to send your product from the source system to multiple endpoints, and choose to install it later.
- From the send and delayed install wizard, you will be asked to schedule the install time
- You can choose which options you want to send
- By default it will install into the same libraries as the source system, but you can override this
- You can choose a command to run after the product installs
- You can choose to schedule the send as well. Be sure to leave enough time for the send to complete before the install begins.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Advanced: Multiple Options



Notes: Advanced - Multiple Options

IBM @server iSeries

Multiple Options for your product:

On the new definition wizard, Options page, choose YES for multiple options. (Or if your definition is already created, open up the properties page for it, choose the Contents tab).

After creating the Base option, click the Add button to add up to 99 options.

When doing a send and install of a product with multiple options, you can choose which ones to send and install. If you do not send the base, you must be sure it is already installed on the target systems, or the install will fail

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Advanced: Multiple Languages

IBM @server iSeries

New Product Definition - Multiple Languages

A product can have multiple languages that can be installed only if they are wanted.

Does this product have multiple languages?

Yes

No

Add Language

Specify a language to add, and a path to find its contents for this product.

Language: 2926 - Danish

Path: /QSYS.LIB/DANISHPRD.LIB

Exit Programs...

OK Cancel Help

< Back Next > Cancel

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Advanced - Multiple Languages

IBM @server iSeries

If you have different primary languages installed on your network systems, you will need to create a product definition that contains each of the primary languages. You then must install that product definition on the source system and the other systems that have unique primary languages installed. After you have the product definitions installed on each system, you can send and install the products on the other systems in your network from your central site.

For an example, you have 10 systems in your network. System A, which is the central site, uses English as its primary language. System B uses Spanish for its primary language. All the other systems use English as the primary language.

1. Create your product definition for the primary language on System A. In most cases, System A will be your central site.
2. Create another definition by using the New Based On option for the definition that you just created for the primary language on System A. For the New Based On definition you specify System B as the source system. You need to create a separate product definition for the primary language associated with each source system because the primary language is chosen when you install a language locally.
3. Continue creating product definitions based on your initial definition for each system with a unique primary language. This example has only two systems with primary languages installed, so only two product definitions were created.
4. Install the product definition on each source system. The install path for the base part on System B must be different from the install path for System A because the primary language is not the same on these two systems.
5. Send and install the product definition (only the language part) that you created on System B on your central system, System A. Sending and installing the product definition on System A allows you to now centrally manage your product fixes for all languages from System A.

Note: If you are sending and installing a primary language, the source system and the target system must have the same primary language.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Advanced: Licensing

IBM @server iSeries

New Product Definition - Use Licensing

Do you want to control this product with licensing, or do you want to give users unrestricted access to this product?

Yes, use licensing

No, users have unrestricted access to this product

< Back

Product 1 Properties

General | Contents | Licensing | Sharing

Use license management

Type of usage:

Concurrent

Registered

Processor

How long license keys should last:

Throughout the same version

Throughout the same release

Throughout the same modification

Grace period:

I do not want to allow a grace period

90 days

OK Cancel Help

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Notes: Advanced - Licensing

IBM @server iSeries

Use the Licensing page to indicate whether you want to control the product using license management. You can specify

whether the license is concurrent, registered, processor

Concurrent - The usage limit for the number of unique jobs that use the product or feature at the same time. The license user is the job from which the license request is made.

Registered - The usage limit is for the number of unique license users registered to use the product or feature. A license user is named by the product when the use of a license is requested.

Processor - Any number of users can use this product. However, the product is limited by the number of system processors that it can use

how long license keys should last

Throughout the same version - Specifies that the license term will be in effect for the same version (Vx). For example, this item allows users that own a license key for version V1R1M0 to use all the releases within the version without needing to purchase a new key. A user could use V1R2M0, V1R3M0, and so on.

Throughout the same release - Specifies that the license term will be in effect for the same release (VxRy). For example, this item allows users that own a license key for release V1R1M0 to use all the modifications within the release without needing to purchase a new key. A user could use V1R1M1, V1R1M2, and so on.

Throughout the same modification - Specifies that the license term will be in effect for the same modification (VxRyMz). The license term is limited to a specific modification, V1R1M0.

whether a grace period should be allowed - A grace period can be defined by the product owner to allow the usage limit to be exceeded by 50% for the duration of the period or if the product is being used on a trial basis. The grace period begins when a product first exceeds its usage limit. The grace period is the number of days that you have to obtain a new license key. If a new license key is not obtained from the software supplier by the time the grace period has expired, no users over the usage limit are allowed to access the product or feature. The default length of time is 90 days.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Advanced: Advanced Identification

New Product Definition - Identification

How do you want to identify this product definition?

Name:

Description:

Product ID: (Exam)

Release: (Exam)

Advanced Identification

Earliest supported OS/400 release:

Shared libraries:
If you want this product to share its libraries with another product, the following registration identifier value must be the same for both products.

Copyright:

None

First year: Current year:

OK Cancel

< Back Next > Cancel

IBM @server. For the next generation of e-business.
© 2001 IBM Corporation All rights reserved.

Notes: Advanced - Identification

IBM @server iSeries

You can choose the earliest supported release that your product will be installed on. Possible values are:

Current - The product is used on the release of the operating system currently running on the central system. This is the default value.

Previous - The product is intended for a system that is at the previous release level compared to the local system.

Release level - The product is used on a system with the specified release. The release must be in the format VxRyMz. Valid entries for x and y are any number between 0 and 9. A valid entry for z is a number between 0 and 9 or a character between A and Z.

Shared Libraries - You can install more than one product in the same library rather than having separate libraries for each product. If you want this product to share its library with another product, you must specify the same registration identifier value for both products. The default registration identifier is the product ID value of the product definition that you are creating.

You can choose to copyright your product or not. If you want to copyright it, enter the First year and the Current year.

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Summary

IBM @server iSeries

Object & File Packaging

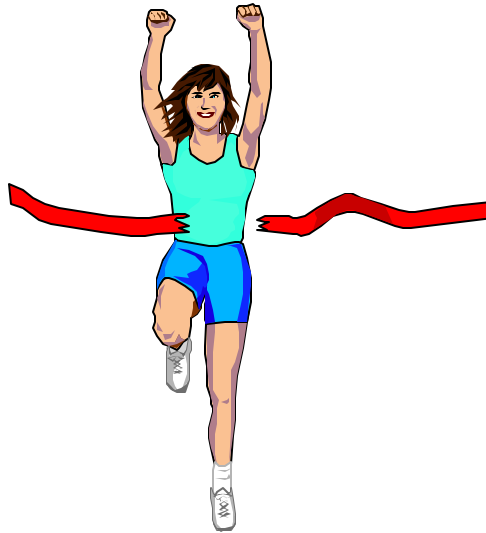
- Define
- Send

Product Packaging

- Define
- Install
- Send and Install
- Generate Fix

Fixes

- Collect
- Compare and update
- Send and install
- Copy from media
- Search inventory



IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Other Information

IBM @server iSeries

iSeries Home Page

- ibm.com/eserver/iserries

iSeries Systems Management

- ibm.com/eserver/iserries/sftsol
- ibm.com/eserver/iserries/sftsol/MgmtCentral.htm
- ibm.com/eserver/iserries/oper_nav/

Redbooks - www.redbooks.ibm.com

- Management Central - A Smart Way to Manage AS/400 Systems SG24-5407-00
- Managing AS/400 V4R4 with Operations Navigator SG24-5646-00

IBM @server. For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.

Trademarks and Disclaimers

© Copyright International Business Machines Corporation 2001

References in this document to IBM products or services do not imply that IBM intends to make them available in every country.

The following terms are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both:

IBM  iSeries

AS/400
AS/400e
e-business logo
IBM

IBM Logo
iSeries
OS400

Lotus, Freelance, and Word Pro are trademarks of Lotus Development Corporation in the United States, other countries, or both.

Tivoli and NetView are trademarks of Tivoli Systems Inc. in the United States, other countries, or both.

C-bus is a trademark of Corollary, Inc. in the United States, other countries, or both.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

PC Direct is a trademark of Ziff Communications Company in the United States, other countries, or both and is used by IBM Corporation under license.

ActionMedia, LANDesk, MMX, Pentium and ProShare are trademarks of Intel Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

SET and the SET Logo are trademarks owned by SET Secure Electronic Transaction LLC.

Other company, product and service names may be trademarks or service marks of others.

Information is provided "AS IS" without warranty of any kind.

All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics may vary by customer.

Information in this presentation concerning non-IBM products was obtained from a supplier of these products, published announcement material, or other publicly available sources and does not constitute an endorsement of such products by IBM. Sources for non-IBM list prices and performance numbers are taken from publicly available information, including vendor announcements and vendor worldwide homepages. IBM has not tested these products and cannot confirm the accuracy of performance, capability, or any other claims related to non-IBM products. Questions on the capability of non-IBM products should be addressed to the supplier of those products.

All statements regarding IBM future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. Contact your local IBM office or IBM authorized reseller for the full text of the specific Statement of Direction.

Some information in this presentation addresses anticipated future capabilities. Such information is not intended as a definitive statement of a commitment to specific levels of performance, function or delivery schedules with respect to any future products. Such commitments are only made in IBM product announcements. The information is presented here to communicate IBM's current investment and development activities as a good faith effort to help with our customers' future planning.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

Photographs shown are of engineering prototypes. Changes may be incorporated in production models.

IBM  For the next generation of e-business.

© 2001 IBM Corporation All rights reserved.