HP OpenView Service Desk 3.0

Documentation Addendum

Second Edition



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Preface

This document is additional information for new features introduced with HP OpenView Service Desk 3.0 Service Pack 4. The new features include reporting, reconciliation and improvements in the command line interface tool.

The information in this document is suitable for a wide audience. The majority of information is suitable for most users. The reconciliation and Command Line interface features will be more suitable for system administrators.

This guide is organized as follows:

- Chapter 1, "Reporting," on page 19 describes how you can create reports based on your Service Desk database entries.
- Chapter 2, "Reconciliation," on page 35 provides details on how to perform reconciliation when you are using Data Exchange to minimize the amount of data imported into Service Desk by filtering out redundant items and relations.
- Chapter 3, "Opening Forms from the Command Line," on page 45 provides information on configuring and using the command line executable. The executable can be started by other products to initialize specific parts of Service Desk.
- Chapter 4, "Multiple Sessions," on page 55 explains how you can run more than one Service Desk client (with the same version number) on the same machine.
- Chapter 5, "Extraction Configuration Wizard," on page 63 explains how to use the wizard. The extraction configuration wizard is part of Data Exchange and can be used to create and maintain export configuration files.
- Chapter 6, "Approval," on page 89 explains how the approval feature in Service Desk can be used to effectively manage and authorize IT management processes.

Revision History

When an edition of a manual is issued with a software release, it has been reviewed and tested and is therefore considered correct at the date of publication. However, errors in the software or documentation that were unknown at the time of release, or important new developments, may necessitate the release of a service pack that includes revised documentation. Revised documentation may also be published on the Internet, see the section "We Welcome Your Comments!' below, for the URL.

A revised edition will display change bars in the left-hand margin to indicate revised text. These change bars will only mark the text that has been edited or inserted since the previous edition or revised edition.

When a revised edition of this document is published, the latest revised edition nullifies all previous editions.

Edition and Revision Number	Issue Date	Product Release
First Edition, Approval and Extraction Configuration Wizard: User's Guide	November 2000	Service Desk 3.0 Service Pack 3
Second Edition	March 2001	Service Desk 3.0, Service Pack 4

Table 1Revision History

Related Publications

This section helps you find information that is related to the information in this guide. It gives an overview of the Service Desk documentation and lists other publications you may need to refer to when using this guide.

The Service Desk Documentation

Service Desk provides a selection of books and online help to assist you in using Service Desk and improve your understanding of the underlying concepts. This section illustrates what information is available and where you can find it.

NOTE

This section lists the publications provided with Service Desk 3.0. Updates of publications and additional publications may be provided in later service packs. For an overview of the documentation provided in service packs, please refer to the readme file of the latest service pack. The service packs and the latest versions of publications are available on the Internet. See the section "We Welcome Your Comments!" in this preface for the URLs.

- The Readme.htm file on the Service Desk CD-ROM contains information that will help you get started with Service Desk. It also contains any last-minute information that became available after the other documentation went to manufacturing.
- The *HP OpenView Service Desk: Release Notes* give a description of the features that Service Desk provides. In addition, they give information that helps you:
 - compare the current software's features with those available in previous versions of the software;
 - solve known problems.

The Release Notes are available as a PDF file on the HP OpenView Service Desk 3.0 CD-ROM. The file name is Release_Notes.pdf.

• The *HP OpenView Service Desk: Supported Platforms List* contains information that helps you determine platform and software requirements and compatibility. It lists the combinations of platforms and software Service Desk 3.0 was tested on.

The Supported Platforms List is available as a PDF file on the HP OpenView Service Desk 3.0 CD-ROM. The file name is Supported_Platforms_List.pdf.

• The *HP OpenView Service Desk: Installation Guide* covers all aspects of installing Service Desk.

The Installation Guide is available as a PDF file on the HP OpenView Service Desk 3.0 CD-ROM. The file name is Installation_Guide.pdf.

• The *HP OpenView Service Desk: Data Exchange Administrator's Guide* explains how you can use data from other applications in Service Desk. It explains the underlying concepts of the data exchange process and gives step-by-step instructions on exporting data from external applications and importing it into Service Desk. The data exchange process includes importing single service events and batches of data.

The Data Exchange Administrator's Guide is available as a PDF file on the HP OpenView Service Desk 3.0 CD-ROM. The file name is Data_Exchange.pdf.

• The *HP OpenView Service Desk: API Programmer's Guide* contains information that will help you create customized integrations with Service Desk. This guide depicts the API structure, and explains some of the basic functions with examples for using the Application Programming Interface (API) provided with Service Desk. The API extends the HP OpenView Service Desk environment by providing independent programmatic access to data-centered functionality in the Service Desk application server environment.

The API Guide is available as a PDF file on the HP OpenView Service Desk 3.0 CD-ROM. The file name is API_pg.pdf.

• The *HP OpenView Service Desk: Data Dictionary* contains helpful information about the structure of the application.

The Data Dictionary is available as an HTML file on the HP OpenView Service Desk 3.0 CD-ROM. The file name is Data_Dictionary.htm.

• The *HP OpenView VantagePoint Service Desk 3.0 Computer Based Training* (CBT) CD-ROM is intended to assist you in learning about the functionality of HP OpenView VantagePoint Service Desk 3.0 from both a user and a system administrator perspective. The CD-ROM contains demonstration videos and accompanying texts that explain and show how to perform a wide variety of tasks within the application. The CBT also explains the basic concepts of the Service Desk application.

The CBT is shipped automatically with the regular Service Desk software on a separate CD-ROM.

- The online help is an extensive information system providing:
 - procedural information to help you perform tasks, whether you are a novice or an experienced user;
 - background and overview information to help you improve your understanding of the underlying concepts and structure of Service Desk;
 - information about error messages that may appear when working with Service Desk, together with information on solving these errors;
 - help on help to learn more about the online help.

The online help is automatically installed as part of the Service Desk application and can be invoked from within Service Desk. See the following section entitled "Using the Online Help" for more information.

Reading PDF Files

You can view and print the PDF files with Adobe® Acrobat® Reader. This software is included on the HP OpenView Service Desk 3.0 CD-ROM. For installation instructions, see the readme.htm file on the CD-ROM.

The latest version of Adobe Acrobat Reader is also freely available from Adobe's Internet site at http://www.adobe.com.

Using the Online Help

You can invoke help from within Service Desk in the following ways:

- To get help for the window or dialog box you are working in, do one of the following:
 - Press F1.
 - Click the help toolbar button 😰.
 - Choose Help from the Help menu.

- Click the help command button \square in a dialog box.
- To search for help on a specific subject using the table of contents or the index of the help system: choose Help Contents & Index from the Help menu.

When you are in the help viewer, you can find help on how to use the help system itself by clicking the Help toolbar button:

Service Desk also provides *tooltips* and *"What's This?" help* for screen items like buttons, boxes, and menus.

A *tooltip* is a short description of a screen item. To view a tooltip, rest the mouse pointer on the screen item. The tooltip will appear at the position of the mouse pointer.

"What's This?" help is a brief explanation of how to use a screen item. "What's This?" help generally gives more information than tooltips. To view "What's This?" help:

- 1. First activate the "What's This?" mouse pointer in one of the following ways:
 - Press Shift+F1.
 - Click the "What's This?" toolbar button №.
 - Choose What's This? from the Help menu.
 - In dialog boxes, click the question mark button 🛽 in the title bar.

The mouse pointer changes to a "What's This?" mouse pointer 🖓.

2. Then click the screen item for which you want information. The "What's This?" help information appears in a pop-up window.

To close the pop-up window, click anywhere on the screen or press any key on your keyboard.

Typographic Conventions

The table below illustrates the typographic conventions used in this guide.

Font	What the Font Represents	Example
Italic	References to book titles	See also the HP OpenView Service Desk: Installation Guide.
	Emphasized text	Do not delete the System user.
Bold	First-time use of a term that is explained in the glossary	The service call is the basis for incident registration.
Courier	Menu names	You can adjust the data view with the commands in the View menu.
	Menu commands	Choose Save from the menu.
	Button names	Click Add to open the Add Service Call dialog box.
	File names	To start the installation, double-click setup.htm.
	Computer-generated output, such as command lines and program listings	If the system displays the text C:\>dir a: The device is not ready then check if the disk is placed in the disk drive.
Courier bold	User input: text that you must enter in a box or after a command line	If the service call must be solved within 30 minutes, enter 30 .
Courier italic	Replaceable text: text that you must replace by the text that is appropriate for your situation	Go to the folder <i>X</i> :\\Setup, where <i>X</i> is your CD-ROM drive.
Helvetica bold	Keyboard keys	Press Ctrl+F1.
	A plus sign (+) means you must press the first key (Ctrl in the example), hold it, and then press the second key (F1 in the example).	

We Welcome Your Comments!

Your comments and suggestions help us understand your needs, and better meet them. We are interested in what you think of this manual and invite you to alert us to problems or suggest improvements. You can submit your comments through the Internet, using the HP OpenView Documentation Comments Web site at the following URL:

http://ovweb.external.hp.com/lpe/comm_serv

If you encounter *serious errors* that impair your ability to use the product, please contact the HP Response Center or your support representative.

The latest versions of OpenView product manuals, including Service Desk manuals, are available on the HP OpenView Manuals Web site at the following URL:

http://ovweb.external.hp.com/lpe/doc_serv

Software patches and documentation updates that occur after a product release, will be available on the HP OpenView Patches Web site at the following URL:

http://ovweb.external.hp.com/cpe/patches

1 Reporting

This chapter describes how you can create database views and a data dictionary for use by your third-party reporting tool. Using the information provided in this chapter, you can create reports based on your Service Desk database entries. Reporting Introduction

Introduction

The delivery of business-critical IT services depends on prompt decision making. Steps within the IT management process may need to be reviewed to monitor agreed-upon service levels. When reviewing IT management processes, it is counter-productive and time-consuming to manually track issues.

Using Service Desk, you can create reports that provide an effective method of managing your IT management processes.

Overview of Reporting

Reporting provides flexibility and convenience for reviewing past, managing current, and forecasting future infrastructure needs. For example, you want to monitor the performance of a configuration item. By printing a report of all service calls for a particular CI, you can view statistics on the average availability of a CI based on any specified time period.

Your Service Desk database provides the information used as a basis for your reporting tool. Your reporting tool, such as Business Objects, Crystal Reports, Microsoft Access, or Microsoft Excel, can access the information stored in Service Desk when you create database views and a data dictionary. When using an Oracle based Service Desk database, your reporting tool can view Service Desk entries using the ODBC or SQL drivers. When using an SQLServer based Service Desk database, your reporting tool can view the Service Desk entries using ODBC or SQL drivers. Service Desk, however, recommends using specified drivers, ODBC drivers with Oracle and SQL drivers with SQLServer, for performance optimization. Using queries defined in your Service Desk database views, you provide a view into your database which can be imported by your reporting tool to create professional reports, as depicted in Figure 1-1.





Generating Database Views

The first step in the Reporting process is the generation of database views. Using database views, you can create a professional report, for example, by using the Crystal Report Wizard.

Service Desk gives you control over which parts of your database you can use. For this reason, you need to take additional steps to create the specific views into your database. Each view determines what information you want to form the basis of your report.

Database views are localized based on the language of your third-party reporting tool.

To generate database views:

- 1. In Service Desk, choose System from the Tools menu. The Administrator Console is displayed.
- 2. In the Administrator Console, select the System Panel icon.
- 3. Double-click the General Settings icon. The General Settings dialog box is displayed.

Figure 1-z General Settings	Figure 1-2	General Settings
-----------------------------	------------	------------------

eneral Settings			?)
General			
☑ ID After Creation			
LIBL Of Latest Software Version:			
\Client Upgrade\setup.htm			*
Time Dependencies			
🔲 Display Logon Screen On Star	tup		
		-	
(Re)generate database views	for reporting		
💦 Generate Data Dictionary		1	
	ОК	Cancel	Apply

- 4. Click (Re)generate database views for reporting.
- 5. Select a time zone in the Generate Reporting Database Views Do You want to Continue dialog box. A time zone must be selected from the drop-down list.

Figure 1-3 Selecting a Time Zone for Database Views

📕 (Re)gene	rate Database Views For Reporting	×		
Timezone:	European Central Standard Time (Amsterdam)			
	<u> </u>	Cancel		

- 6. In the Warning dialog box, click Yes to continue generating database views.
- 7. Service Desk will generate the database views.
- 8. Close the General Settings dialog box by clicking OK or Apply.

Reporting Generating a Data Dictionary

Generating a Data Dictionary

Data is stored in a variety of places and forms. You may have placed your data in one or two separate databases or your specialists may have defined tables and fields in what they consider a logical manner but which other members of your company may not understand. As a result, providing members of your IT infrastructure the ability to import Service Desk entries into a reporting tool may create problems and compromise your data's integrity.

A Data Dictionary which defines all IT infrastructure terms helps ensure that there is a general understanding of all terms and that your company's database integrity remains intact. By creating a Data Dictionary, your staff will have data easily accessible in a format that they can understand.

When a Data Dictionary is used to help define information contained in reports, only data which is used in the report can be accessed via the Data Dictionary. You cannot simultaneously use the Data Dictionary and another data source in the same report.

To generate a Data Dictionary:

- 1. In Service Desk, choose System from the Tools menu. The Administrator Console is displayed.
- 2. In the Administrator Console, select the System Panel icon.
- 3. Double-click the General Settings icon. The General Settings dialog box is displayed.
- 4. In the General Settings dialog box, click the Generate Data Dictionary button. The Print Preview appears on your screen.

Data Dictionary Items Service Desk		
Address (table: itsm_addresses properties: only detail)		
Description	Column	Related to
Address type, The address type specifies the intended use of the address. For example, business mail should be sent to a business type address. (Reference to Address type, Number 18)	adr_typ_oid	itsm_codes
City, City name. (Text 50)	adr_city	
Country/Region, Country or region name. (Text 50)	adr_countryregion	
Object ID (Object ID, Number 18)	adr_oid	
Organization (Reference to Organization, Number 18)	adr_org_oid	itsm_organization
Person (Reference to Person, Number 18)	adr_per_oid	itsm_persons
State/Province, State or province name. (Text 50)	adr_stateprovince	
Street1, Street name and house number. Can also be used as postbox and postbox number. (Text 50)	adr_street1	
Street2, Street name and house number. (Text 50)	adr_street2	
Template (Reference to Template, Number 18)	adr_tem_oid	rep_templates
Zip/Postal code, Zip code or postal code. (Text 50)	adr_zippostalcode	
Address type (table: itsm_codes properties: code_cached)		

Figure 1-4 Print Preview of a Data Dictionary

- 5. You can choose to print or publish the Data Dictionary.
 - Create a report in HTML format using your reporting tool by selecting Publish from the toolbar to save the Data Dictionary in HTML format; or
 - Print your report using your reporting tool by selecting Print from the toolbar to print the Data Dictionary.

Reporting Generating a Data Dictionary

Figure 1-5	Publishing a	Data Dictiona	arv in	HTMI.	Format
rigule 1-5	i ublishing a	Data Dictiona	пуш		roimat

S Print Preview		- 🗆 ×
Page Setup Publish Publish Dose	ADD STATUS IFOR OLD - USED FOORS	
Status from Date (Date)	and status from date	-
Status Itom Date (Date)	agu_status_10m_date	_
Status to Code (Reference to Status, Number 18)	agd_status_to_oid itsm_codes	
Status to Date (Date)	agd_status_to_date	
Subject (Text 255) Publish	? ×	
Template (Reference to Template, Number 1 Save in: 😱 🛄	🗾 🖻 📸 🏢 mplates	
Aggregated data Problem (table: itsm_a) Java Pro Java Rec Java Jakk20 Tem Mercurropt Wir	gram Files	
Description Description	elated t	o
Assigned from Date (Date)		
Assigned from Person (Reference to Person, File name:	Save	
Assigned from Workgroup (Reference to We Save as hope)	vorkgrou	ıps
Assigned to Date (Date)		
Assigned to Person (Reference to Person, Number 18)	agd_person_to_oid itsm_persons	
Assigned to Workgroup (Reference to Workgroup, Number 18)	agd_workgroup_to_oid itsm_workgrou	ıps
Assignment Duration (Number 9)	agd_assignment_duration	
Object ID (Object ID, Number 18)	agd_oid	
Problem (Reference to Problem, Number 18)	agd_pro_oid itsm_problems	
Report (Reference to Report, Number 18)	agd_report_oid itsm_codes	
Status Duration (Number 9)	agd_status_duration	
Status from Code (Reference to Status, Number 18)	agd_status_from_oid itsm_codes	-

- 6. Click Close in the Data Dictionary Print Preview.
- 7. Click Close in the General Settings dialog box.

After you have generated the database views and created the data dictionary, you will need to access the database. Consult your database administrator for the user name and password to access the database tables.

When viewing the database tables, you will note that all views created for reports have the prefix V_{-} .

NOTE In addition to operational data, repository data such as account information will be displayed in the database views. Although you cannot modify data using the database views, you will be able to view all repository information in the reporting tables.

You can import the database views with the $V_{\rm -}$ prefix into your reporting tool.

Using Database Views: Examples with Third-Party Reporting Tools

After creating your database views, you can use the views to create reports from your Service Desk database without requiring database command knowledge. Your third-party reporting tool accesses database tables to produce a report that you can edit and format, combining items such as data, charts, pictures and sound.

Because third-party reporting tools use visual layout approach, you can specify the data that you want to appear to edit and format reports. You can decide the report format, using drag and drop techniques to arrange data, graphics, charts and text.

Creating Reports with Crystal Reports Designer

To create a new report based on Service Desk database views:

1. From the File menu, select New. The Report Gallery appears.

😭 Seagate Crystal Reports Professional	
<u>F</u> ile <u>V</u> iew <u>H</u> elp	
	● 中 5 西 8 谷 4 6 ₩ ▲ 3
▼ ▼ <u></u>	3 <i>I</i> UEEE \$,%88 🖺 ! 4
Report Gallery	×
Choose an Expert:	Or
Standard Form Letter Form	Cross-Tab Another Document Report Import Tool
Subreport Mail Label Drill Down	OLAP Custom >>>
For Help, press F1	

Figure 1-6 Crystal Reports Gallery

- 2. Select any report. For our example, we will choose Standard. The form Report Expert will appear.
- 3. Click SQL/ODBC. The Log On Server dialog box appears.

Reporting Using Database Views: Examples with Third-Party Reporting Tools

Figure 1-7 Crystal Reports Log On Server Dialog Box

📲 Standard Report Expert			×
Data Fields Sort Total TopN Graph Select Style			
Step: Choose data to report on. You c	an choose multiple tables and	add indexes.	
	Log On Server		×
Data File Data File Query SQL/ODBC Dictionary	Server Type: ODBC - CRINF ODBC - CROR7 ODBC - CRS5 ODBC - CRS5 ODBC - CRSYB ODBC - Sevel Files ODBC - FoxPro Files ODBC - HP OpenView Serv	ice Desk 3 v	OK Cancel <u>H</u> elp Database <u>F</u> ile
Query Tip	Dictionary <u>T</u> ip	<u>D</u> elete <u>A</u> d	díndex
<< <u>B</u> ack <u>N</u> ext >> Cancel	Design Report	Preview <u>S</u> ample	Pre <u>v</u> iew Report

- 4. You must log on to the database where your Service Desk views were created. In our example, we are using HP OpenView Service Desk 3.0 and we select ODBC-HP OpenView Service Desk 3.0. The Choose SQL Table dialog box appears.
- 5. In the Choose SQL Table dialog box, select all file types. Database view files will have the prefix V_{-} . Double-click the database view files to be used in your report.
- 6. The database views which will be included in your report will appear in the Report Expert Fields pane. When finished, click Done.
- 7. Click the Fields tab in the Report Expert dialog box.
- 8. In the Database Fields pane, double-click the fields from your views to be included on your report. The selected database fields will appear in the Report Fields pane.
- 9. Click the Sort tab. Select a database view field to sort data. For additional information, please refer to *Seagate Crystal Reports User's Guide.*
- 10. Click the Graph tab. Select a format for your report graph by clicking the Crystal Chart Type or selecting Custom Chart to create your own. For additional information, please refer to Seagate Crystal Reports User's Guide.

- 11. Click the Style tab. You can design a report by adding a company logo, or making other stylistic changes. For additional information, please refer to *Seagate Crystal Reports User's Guide*.
- 12. When finished, click Design Report. The report you have created with your Service Desk database views will be displayed.

Adding Database Views to Existing Reports

Database views that you have generated can be added to existing reports. You can add Service Desk data to a company prospectus, for example. A report initially designed for financial information could import Service Desk database views and present IT infrastructure management statistics.

To add database views to an existing report:

- 1. Select Add Database to Report from the Database menu. The Choose SQL Table dialog box will appear.
- 2. Select the Service Desk database view files to include in your report. The database view files will have a V_ prefix.
- 3. The Visual Linking Expert will appear. Click OK.

NOTEThe Visual Linking Expert helps you link two or more database tables.
For additional information on using the Visual Linking Expert, please
refer to Seagate Crystal Reports User's Guide.

Creating Reports with Business Objects Designer

Business Objects utilizes universes to display database data without requiring users have technical knowledge of databases. Universes are a tool to provide information on data in understandable terms.

Universes consist of classes and objects. For example, objects in a Service Desk database view could be configuration items, organizations, service calls, service call numbers, etc. By grouping objects together, you form classes. Classes group objects to form a general description. Each object links to data directly in your database view.

Universes provide the ability to query data to incorporate in your

Reporting Using Database Views: Examples with Third-Party Reporting Tools

reports. When creating a query in Business Objects, you select objects from the universe and run a query on those objects.

To create a universe to access your database view:

- 1. Start Business Objects Report Designer.
- 2. Select New from the File menu. The Universe Parameters dialog box appears.

Figure 1-8 Business Objects Universe Parameters Dialog Box

Universe Parame	eters 🔀
Definition Sum	mary Strategies Controls SQL Links
	The following information identifies the universe. A universe is defined by its name and database connection:
Na <u>m</u> e:	Universe1
Description:	×
<u>C</u> onnection:	€) New Connection New Lest
	OK Cancel <u>H</u> elp

- 3. Enter a name for your universe in the Name field.
- 4. You will need to provide your universe with access to Service Desk data. To do this, you will need to indicate the database and the type of network you are working with and set the parameters to access the database views stored in your Service Desk database. Create a new connection for your universe by clicking New.
- 5. The Add a Connection dialog box will appear.

Figure 1-9 Business Objects Add a Connection Dialog Box

Universe Parameters	×
Definition Summary Strategies Controls SQL Links	
Add a connection	is is
Select the network driver you want to use. Then click OK to define parameters for the connection.	
Network Layer:	
Net8 Client ODBC Drivers	<u> </u>
SQL*Net 2.3	
	—
Description	
A	
	IP
OK Cancel <u>H</u> elp	

- 6. Select the network driver for your Service Desk database. For our example, we will select ODBC Drivers. Click OK.
- 7. Enter a name for the connection in the Name field.
- 8. Select a database engine from the Database engine drop-down list.

Figure 1-10 Business Objects ODBC Drivers Dialog Box

ODBC Drivers					×
Login Advanced					
Name:		Dal MS	tabase <u>e</u> ngine: 6 Access 7.0		∍
Select the data source Define data source	ur <u>c</u> e and enter i e parameters	user ID	0)BC Ad <u>m</u> in	
Data s <u>o</u> urce name:	HP OpenVie	w Service Desl	k 30 💌		
Use <u>r</u> name: <u>P</u> assword:	system			<u>I</u> est	
Туре:	Personal		•		
		OK	Cance		elp

9. Select HP OpenView Service Desk 3.0 from the Data Source Name drop-down list.

Reporting Using Database Views: Examples with Third-Party Reporting Tools

10. Enter a user's name and password for the Service Desk database.

11. Click OK.

12. Select Tables from the Insert menu.

13. In the Table dialog box, click the database views you want to add to the universe structure. The database views will have the prefix V_.

To add several database views, hold down the Control key while clicking each database view.

14. Click Insert.

When you have finished designing your report, you can use your basic design to create professional reports. For additional information, refer to the *Business Objects User's Manual*.

2 Reconciliation

The Reconciliation feature in Data Exchange minimizes the amount of data imported into Service Desk by filtering out redundant items. A reconciliation change list is created that identifies obsolete objects that may require manual removal from Service Desk.

Reconciliation
Reconciling your Data

Reconciling your Data

The Reconciliation process filters out redundant information so that only the changes in your data are imported, thus reducing the load on your resources. This is accomplished by comparing the most recently exported data exchange XML file with the data exchange XML file currently exported. The differences between the two files are then recorded into an additional XML file for importing into Service Desk. To use the reconciliation feature you must have a valid Data Exchange xml file for comparison purposes. During the import process the current xml file will be compared to the older xml file. The following tables explain which items and relations will be imported:

Table 2-1Decision Matrix for Importing Items

Item in previous exchange file?	Item in current exchange file?	Changes to the item's attributes?	How is item processed?
No	Yes	Not Applicable	Import item
Yes	No	Not Applicable	Remove item manually
Yes	Yes	No	No action taken
Yes	Yes	Yes	Import item

Table 2-2Decision Matrix for Importing Relations

Item in previous exchange file?	Item in current exchange file?	Is the relation new or changed?	Has the relation been removed?	How will relation be processed.	
No	Yes	Yes	Not Applicable	Import relation	
Yes	No	Not Applicable	Yes	Remove relation manually	
-	Item in previous exchange file?	Item in current exchange file?	Is the relation new or changed?	Has the relation been removed?	How will relation be processed.
---	--	---	---------------------------------------	---	---------------------------------------
	Yes	Yes	No	No	No action taken
	Yes	Yes	Yes	No	Import relation
	Yes	Yes	No	Yes	Remove relation manually

Table 2-2Decision Matrix for Importing Relations

Delta Processing

The option to import your reconciled data is called delta processing and is set in the Data Exchange dialog box. When this option is selected, new items and relations will automatically be imported. Modified items and relations will automatically be updated. Redundant (obsolete) items and relations will need to be removed manually, See "Removing Redundant Items and Relations" on page 40.

To set the Delta processing option in the Data Exchange dialog box:

- 1. Open an existing Data Exchange task or create a new Data Exchange task. Refer to the Data Exchange Administrator's Guide or the Online help for more information.
- 2. Place a check in the Use delta processing check box. It is located in the lower half of the dialog box:

Figure 2-1 Setting the Reconciliation Option in Data Exchange

Export data from a storage device					
Select a configuration	file for extracting data:				
Export mapping:	Export mapping: dta5 ini				
	<u></u> Ui				
Export data to or impo	ort data from file				
Exchange file:	dta.xml				
	Browse View				
·					
Import data into S	ervice Desk database				
Select import settings					
Account: -					
Password:	******				
Import mapping:	dta				
E Dahua					
IM Debug	New <u>M</u> odify Remove				
Use delta processing					
Previous excha	Previous excha dta_200101101644xml				
	Browse View				

3. In the Previous Exchange field, enter the previous data exchange xml file you will use to compare with the current data exchange xml file. A Browse button is available below the field, for locating the file. A date and time will be automatically added to your data exchange xml file during the data exchange process. The date format is yyyy/mm/dd/HH:mm, for example DTA_200101101644.xml refers to 2001, January, 10th, 16:44.

Reconciling Data from a Command Line

You can use a command line to call sd_import for importing data using reconciliation. The command structure is: sd_import <username><password><server><mapping><datafile><debugging> <logfile><temp dir><reconciliation data file><reconciliation change list>

For more information about running Data Exchange from the command line, refer to the Data Exchange Administrator's Guide. An example command line using reconciliation follows:

sd_import system servicedesk LOCALHOST dta5 dta5.xml Y
dta5_imp.log c:\temp dta5_200101101645.xml dta5_changes.log

Removing Redundant Items and Relations

During the reconciliation process a change log is created recording all new, modified and redundant items and relations. To complete the reconciliation process in Service Desk you will need to remove redundant items and relations manually, see Table 2-2, "Decision Matrix for Importing Relations," on page 36, and Table 2-1, "Decision Matrix for Importing Items," on page 36. By using the change log you can quickly find the items and relations that have become obsolete. Every item is recorded with key fields and values, making it possible to locate those items quickly in Service Desk.

The change log is created in the data_exchange/log directory with the current date and time. For example, DTA_Changes_200101101644.log. In the following example the REDUNDANT ENTITIES and REDUNDANT RELATIONS sections contain information that will help you locate those items that you will probably want to manually removal from Service Desk:

Example 2-1 Change Log File

Change Log File

ChangeList of delta processing on files e:\a.xml (new situation) and e:\b.xml (old situation).

```
Date of import: Wed, 10/01/2001 16:44:19
_____
NEW ENTITIES
=============
CL_CI with ID 282 with key-values:
   CI ID : 100000677
UPDATED ENTITIES
_____
CL_CI with ID 375 with key-values:
   CI_ID : 100000887
CL_CI with ID 676 with key-values:
   CI_ID : 1000001347
CL_CI with ID 911 with key-values:
   CI ID : 1000001860
REDUNDANT ENTITIES
_____
CL_CI with ID 105 with key-values:
   CI_ID : 100000945
NEW RELATIONS
==================
relation between
   CL_CI_COMPONENT_CHILD with ID 1356 with key-values:
       CI ID : 1000001279
   and
   CL_CI_COMPONENT_PARENT with ID 1350 with key-values:
       no key-values
relation between
   CL_CI_COMPONENT_CHILD with ID 1436 with key-values:
```

CI_ID : 1000001302

and

CL_CI_COMPONENT_PARENT with ID 1432 with key-values:

no key-values

REDUNDANT RELATIONS

relation between

CL_CI_COMPONENT_CHILD with ID 1356 with key-values:

CI_ID : 1000001279

and

CL_CI_COMPONENT_PARENT with ID 1352 with key-values:

CI_ID : 1000001275

relation between

CL_CI_COMPONENT_CHILD with ID 1436 with key-values:

CI_ID : 1000001302

and

CL_CI_COMPONENT_PARENT with ID 1434 with key-values:

CI_ID : 1000001297

Finding the Items in Service Desk

The change list describes the changed items and relations with their class names and field names as in the xml file. To find the items and relations, you will need to follow the import mapping created for the item. In the import mapping, for example, class CL_CI from the xml file is mapped to the Service Desk item Configuration Item. The property CI_ID from the xml file is mapped to the ID field in Service Desk.

From the example change list the following entry represents and item in Service Desk that needs to be located and removed:

CI_ID : 100000945

To locate the obsolete item, look for the $\tt Configuration$ $\tt Item$ in Service Desk and search for <code>ID 105</code>.

Memory Usage

The values of all key fields are cached during import to make it possible to locate parent items and relations when processing a relation. The smallest memory format practical is used.

3

Opening Forms from the Command Line

Included with Service Desk is an executable that can be started by other products to initialize specific parts of Service Desk.

Opening Forms from the Command Line **Examples of Use**

Examples of Use

The command-line interface can be used in various integrations. In a command-line integration an external application calls Service Desk classes and passes arguments in the call. The call can be made through the DOS prompt.

For example: helpdesks often make use of CTI (Computer Telephony Integration) applications. CTI applications are used to route telephone calls automatically to the right help desk employee. The CTI application can call external programs, passing the telephone number of the caller over the command line. The command string passed over the command line can identify and search for all previous or open Service Calls from that caller. The helpdesk employee can then see an overview of the service calls logged by the caller in the Command Line Interface before picking up the telephone.

NOTE

The application kicking off the command line action and Service Desk (client) must be installed on the same computer.

Defining a command line argument

Use the executable SDDataForm.exe to open a specific form in Service Desk from the command line of another application. The form can be a standard form, or one created specially for the purpose, but the form must exist before it can be called by the executable. You will need to know the exact name of the form for the command line argument. Forms are created and edited in the Form Designer feature of the administrators console. To open the Form Designer select System from the Tools menu, then open the Forms branch from the Presentation node.

Command Line Syntax

The syntax for the command line is:

<service desk path\bin> SDDataForm.exe <Form name> <Display
option> <Search criteria>

For example:

SDDataForm.exe "Service call" -ListAlways ID=200

The above example searches for the form Service Call, and any service call records with the ID number 200. The results are displayed in the Search Results dialog box even if no matching database records are found. Each element of the command line argument is described below.

General Rules for Arguments

When composing command line arguments, the following points should be kept in mind:

- Whenever a form name or field name value contains any character not recognised by DOS or that DOS gives a different meaning (for example a space,' >' symbol, or a period) the name must be included in quotation marks.
- All arguments are case-sensitive.
- The search value entered in the command line argument must be identical in format to the value stored in the database. For example, if a CTI application identifies a telephone number of an incoming call as

0123456789, but the number is stored on the database as 012 345 6789 (with spaces), no occurances of the telephone number will be found, and the search will fail.

- Command Line arguments must contain the path variable unless the DOS command indicates the correct directory (folder) at the DOS prompt. The executable file SDDataForm.exe is located in the Service Desk \bin folder of both the client and server installations.
- The client user must have access rights to the form being called.

Command Line Executable

The executable file used by Service Desk to do a database search, and open forms from data passed via the command line is SDDataForm.exe. This executable is located in the Service Desk \bin folder of both the server and client installations.

SDDataForm. exe must be named first in the command line string unless DOS needs to be told where to find it, this will not be necessary if the DOS prompt is already in the \bin directory. If the prompt is not in the right directory the path for SDDataForm. exe must be inserted first in the string.

Form Name

The first argument in the command string must be the name of an existing form. If two or more forms have the same name, the first one created will be used.

To find the form names, do the following:

- **Step 1.** In Service Desk, choose System from the Tools menu. The Administrator Console dialog box is displayed.
- Step 2. In the Administrator Console, select the System Panel node and double click the General Settings icon. The General Settings dialog box is displayed.
- **Step 3.** In the General Settings dialog box, click the Generate Data Dictionary button. An HTML file is created.
- Step 4. In the generated HTML file find the form name you want.

Display Options

The display options define how the results of the database search are treated. There are three possible outcomes of any database search, no matching records are found, one matching record is found, or multiple matching records are found. How Service Desk responds to these three possibilities can be defined using one of three display options:

- No option defined. The Service Desk default is that if you do not define a specific display option, the following actions will occur: when no records are returned from the search a new form will be opened, when a single record is returned, this record will be opened automatically in Modify mode, when multiple records are found the Search Results dialog box will open displaying a list of all returned records.
- -ListAlways will cause the Search Results dialog box to be displayed even when no records, or only one record is returned. The user will have to click the New button if they then want to create a new record.
- -ForceNew will cause a new instance of the named form to be displayed, regardless of any search criteria.

When Service Desk finds more than one item in a search, or when the display option is set as ListAlways, the Search Result dialog box is shown. To open an item shown in the Search Result dialog box select it and click Open.

Opening Forms from the Command Line **Defining a command line argument**

Figure 3-1 CLI Search Results dialog box

🗖 Service Call					
ID	Caller	Description	Status	Urgency	Open
259	Puk, Pietje	Service Call test	🔊 Regist	Medium	Open
259	Puk, Pietje	Service Call test	🔕 Regist	Medium	New
256	Puk, Pietje	Service Call test	🔕 Regist	Medium	Close

Search Criteria

Search criteria are optional, however if no criteria are set then all instances of the named form in the database will be retrieved and displayed in the Search Results dialog box. Multiple criteria can be defined.

The search criteria syntax is:

```
FieldnameOperatorValue
```

There must be no spaces between the three elements of the search criteria; Field Name, Operator and Value. Spaces are allowed in the Field Name or in the Value as long as the whole name or value is enclosed in quotation marks. For example:

Location=B1R103 "Outsourced to=HP"

will find all configuration items located at location B1R103 that are outsourced to HP.

Field Name

To find the field names you need, do the following:

- Step 1. In Service Desk, choose System from the Tools menu.
- **Step 2.** In the Administrator Console, open the Presentation node and then the Forms node.
- Step 3. Find the Form you want.
- Step 4. Double-click the Form title to open the form.
- Step 5. The fields available for inclusion in the form are listed in the Attributes dialog box, only the fields currently used in the form and thus displayed in the Form Designer dialog box, should be used for a command line initiated search.

Extended field names

You can use the fields of related items to find a service call. If you use field names of related items, the field name is extended with the item name. Use a period to separate the item name from the field name. For example, to open service calls using the caller's telephone number, you can use the field name: Caller.PrimaryTelephoneNumber. Or, to open a configuration item using the location's search code where the configuration item is placed, use: Location.searchcode.

NOTE To get flavour of what field names and extended field names are possible, open the Advanced Find dialog box. In the Advanced Find dialog box, click the Advanced tab and then click Fields. The names in the fields list can be used as field names. Names in submenus of the fields list must be used as extended field names.

Operators

You can use the operators shown in the following table:

Operator (Text)	Operator (Symbol)	Usage
Equal	=	is equal to
NotEqual	!=	is not equal to
GreaterThan	>	is greater than

Opening Forms from the Command Line **Defining a command line argument**

Operator (Text)	Operator (Symbol)	Usage
GreaterThanOrEqualTo	>=	is greater than or equal to
LessThan	<	is less than
LessThanOrEqualTo	<=	is less than or equal to
Between		is included in the range defined by two values. Separate values with AND. Text strings with spaces or illegal characters should be identified by quotation marks.
NotBetween		is excluded from the range defined by two values. Separate values with AND. Text strings with spaces or illegal characters should be identified by quotation marks.
Contains		is one of a list. Separate values with AND or OR. Text strings with spaces or illegal characters should be identified by quotation marks.
NotContains		is not one of a list. Separate values with AND or OR. Text strings with spaces or illegal characters should be identified by quotation marks.
Empty		is empty (no value given, NULL)
NotEmpty		is not empty (value given, not equal to NULL)
Yesterday		date is equal to yesterday's date (system date -1)

Operator (Text)	Operator (Symbol)	Usage
Today		date is equal to today's date (system date)
Tomorrow		date is equal to tomorrow's date (system date +1)
Last7Days		date is one of the last seven days (Between system date and system date -7)
Next7Days		date is one of the next seven days (Between system date and system date +7)
LastWeek		date is one of the days of the last working week
ThisWeek		date is one of the days of this working week
NextWeek		date is one of the days of the next working week
LastMonth		date is one of last month
ThisMonth		date is one of this month
NextMonth		date is one of next month
StartsWith		text starts with, if the text string has spaces or illegal characters the string should be identified by quotation marks.

Standard DOS wildcards (*, ?) can also be used in values, for example: sm^* will find Smith, Smythe, Smit, etc.

Whenever the text version of an operator is used it must be contained in square brackets, with no spaces around it. For example:

```
ID[Equal]251
```

Opening Forms from the Command Line **Defining a command line argument**

NOTE

If you want the data found by the search criteria to be inserted automatically in the named form when a new form is called, insert a + symbol before each search criteria in the string that you want to be included in the form. If the criteria is contained by quotation marks, because of a space or illegal character, place the + symbol inside the quotes.

Value

The value searched for must be entered in the correct format for anything to be found, and if that value format contains a space or other illegal character, such as a period, the value must be contained in quotation marks.

To find an item on a date, use the date format specified in the system settings of your computer, for example on April 27, 2001 use: 27/04/2001. The date format depends on the system settings of your computer.

Search codes must be capitalized. To find an item on a search code, for example for Steven Barns use: **BARNSS**.

4 Multiple Sessions

Service Desk allows more than one Service Desk client (with the same version number) to be run together on the same machine.

Multiple Sessions
Using multiple sessions

Using multiple sessions

Use multiple sessions when you want to have multiple client installations of the same version of Service Desk connecting to different application servers with different databases. This need could arise when you have different application servers (and databases) for testing, development, and production (live system), or multiple production environments.

Do not use multiple sessions for different users on the same machine; this should be done by setting up proper profiles for each user within the operating system.

Defining Multi-Session Parameters

To use multi-sessions, the cache, account details, and user definable information must be separated, and stored locally on the client machine. This is done by setting up /PROFILE and /USERFOLDER parameters that are read when Service Desk is started up.

Multi-sessions are created using shortcuts. To set up multi-session shortcuts on Windows NT4:

- 1. Right-click on the desktop and select New from the popup menu and then Shortcut from the submenu. The Create Shortcut wizard is started.
- 2. In the Command line field type: C:\WINNT\wjview.exe com.hp.ifc.ui.AppConsole /PROFILE=clientAS1 /USERFOLDER="C:\Program Files\Hewlett Packard\OpenView\Service Desk 3.0\Client\clientAS1"

You can replace the term "clientAS1" with anything you like; however it must be the same in both places.



Figure 4-1 Shortcut Wizard Command Line dialog box

NOTEThe path parameters depend on where wjview.exe and the Service Desk
folder are located on the machine. On Windows 2000 wjview.exe
should be found in the System32 folder and on Windows 95/98 in the
Windows folder.

3. Click Next and enter a name for the shortcut, for example: Service Desk Client AS1. Then click Finish.

Multiple Sessions
Using multiple sessions

Figure 4-2Shortcut Wizard Shortcut Name

Select a Title for the Program 🛛 🗙				
Image: Second	Select a name for the shortcut:			
	< <u>B</u> ack Finish Cancel			

Once you have created the shortcut, the instance of the client software that is started by it still has to be connected to an application server and database. This must be repeated for each client shortcut you create.

1. When you use the shortcut for the first time, the "Get connected" wizard is started. You will be prompted for the application server name (for example, Application Server 1). Click Next.

Figure 4-3 Connection wizard Server Name dialog box

Service Desk Connection Wizard				
	Service Desk Server	Name Desk server your network service has given you. Application Server 1		
	< Back	Next > Cancel		

2. Enter the Account Name and Password for the application server that the client should connect to. Click Next.

Multiple Sessions
Using multiple sessions

Figure 4-4Connection Wizard Account Name dialog box

3. Enter a Friendly Name for the application server account name.

Figure 4-5Connection Wizard Friendly Name dialog box

Service Desk Connection Wizard				
	Friendly Name Information about your Service Desk account is grouped together and labeled with a friendly name. This can be any name you want. Choose a friendly name for this Service Desk account.			
0	Application Server 1 <pre></pre>			

4. Click Next and then Finish. The Client shortcut will now connect to the application server with the specified account name.

When the client is running you will be able to identify each multi-session client you are using by the title bar and the task bar of the application window. This will show the /PROFILE parameter value, for example: clientAS1.

Service Desk Accounts

For each Client shortcut you create you will also need to create an Application Server Account shortcut. This will enable you to add, modify, view, or remove the account associated with the Client shortcut.

To create an Application Server Accounts shortcut, follow the instructions for creating a Client shortcut above, but modify the command line path to:

```
C:\WINNT\wjview.exe
com.hp.ifc.ui.options.AppServerAccountsDialog
/PROFILE=clientAS1 /USERFOLDER="C:\Program Files\Hewlett
Packard\OpenView\Service Desk 3.0\Client\clientAS1"
```

Logically you should name this shortcut to relate to the client shortcut, particularly if you are going to have a number shortcuts. As with the Client, the dialog boxes started from this shortcut will display the value from the /PROFILE parameter in the title bar (for example, clientAS1).

Multiple Sessions
Using multiple sessions

5

Extraction Configuration Wizard

This chapter explains how to create a configuration file for extracting data from a data source with the Extraction Configuration Wizard.

Extraction Configuration Wizard Introduction

Introduction

An export configuration file is needed to extract data from an external data source. The extraction configuration wizard assists you in creating and maintaining an export configuration file without having a deep understanding of SQL, or possessing coding skills. You can select one from the list, copy and modify one from the list or create a new configuration file. To start the wizard:

- 1. Select Programs from the Start menu.
- 2. In the Programs submenu choose HP OpenView Service Desk 3.0.
- 3. Choose the Extraction Configuration Wizard option.

The main dialog box shows all configuration files currently available and includes three tabbed pages that mirror the structure of the extractor file:



🏀 Extraction Configu	ration Wizard	_ 🗆 ×
Choose a folder:	\Program Files\Hewlett-Packard\OperView\Service Desk 3.0 Browse	
Name	Modified	New
danny2sms20.ini dannysms20.ini demo, evcel.ini	Thu Sep 14 13:35:13 GMT+02:00 2000 Wed Sep 13 13:45:22 GMT+02:00 2000 Edua 30 10:59:25 GMT+02:00 2000	Сору
dta5.ini NNM6 ini	Fri Jun 30 10:59:33 GMT+02:00 2000 Fri Jun 30 10:59:33 GMT+02:00 2000	<u>M</u> odify
sd30lang.ini	Fri Jun 30 10:59:33 GMT+02:00 2000	Rename
SMS12.ini SMS20.ini sms20new.ini SMS20ald ini	Trus Sep 05 10:08:35 St MT 402:00 2000 Trus Sep 05 10:08:17 GMT 402:00 2000 Thu Sep 07 14:00:49 GMT 402:00 2000 Follow 30 10:59:35 GMT 402:00 2000	Delete
DDBC System Clas Data Source Name User: Password:	sses Choose a Data Source Name> 	
	Generate XML now Save ini fi	e Close

These tabs are available when you click New, or select an existing ini file.

- ODBC tab: Use this tab to define the ODBC connection with the external database. This is the DSN section in the configuration file:
- System tab: Use this tab to define the system and data file settings.
- Classes tab: Use this tab to define the items that will be exported. You can perform the following tasks using the Extraction Configuration Wizard started from the Classes tab:
 - Select source tables
 - Select columns
 - Enter the parent relation
 - Join tables
 - Filter data
 - Sort data
 - Enter settings for loading classes
 - Name and block a class

There are two ways to store the configured file:

- Generate XML now button: Use this button to save the ini file and generate XML code if you need to check the XML code before processing. An XML file name must be entered in the configuration file to perform this step.
- Save ini file button: Use this button to save your settings as an ini file. This step can be performed at any time during the configuration of the ini file.

NOTEIt is possible to maintain configuration files with a text editor, without
using the wizard. A text editor allows more flexibility for users familiar
with SQL, and the coding of configurable ini files. Additional information
on this subject is available in the HP OpenView Service Desk: Data
Exchange Administrator's Guide.

Defining the ODBC Connection

The ODBC tab is used to define the DSN section of the export configuration file. Fill in the tabbed page as follows:

1. In the Data Source Name field, select the name of the external ODBC data Source from the drop-down list:



🛿 External Extractor Confi	guration	
Name demo_excel.ini dta4.ini dta5.ini NNM6.ini sd30lang.ini sms12.ini SMS20.ini	Modified Wed Jun 28 16:42:09 GMT+02:00 2000 Mon Nov 29 13:34:39 GMT+01:00 1999 Mon May 22 14:02:08 GMT+02:00 2000 Thu Oct 07 10:51:11 GMT+02:00 1999 Fri Mar 03 16:41:32 GMT+01:00 2000 Tue Sep 28 12:07:06 GMT+02:00 1999 Tue Sep 28 12:08:23 GMT+02:00 1999	
DDBC System Classes Data Source Name: User: Password:	HP OpenView Service Desk (system)	<u>Iest Connection</u>
		Generate XML now Save ini file Cancel

- 2. In the User field, enter the name of the database user who owns the data source tables and views you intend to select, or have selected from the classes tab.
- 3. In the Password field, enter the password for the user.

- 4. If you are unsure, click Test Connection to verify that the ODBC connection is valid.
- **NOTE** If you have not already done so, you will need to setup an ODBC link for this connection to work. You can enter the necessary information to create an ODBC link by going to the Start menu on your desktop, then click Settings and then the ODBC icon.

Defining the System Section

The System tab is used to define the output files you want created during the export process:

1. Select the Create a log file check box and browse for the location where you want the log file created:

Figure 5-3 System Tab

Extraction Configu	ration Wizard	_ 🗆 🗙
Choose a folder:	Program Files\Hewlett-Packard\DpenView\Service Desk 3.0 Browse	
Name	Modified	New
dannysms20.ini	Wed Sep 13 13:45:22 GMT+02:00 2000	
demo_excel.ini	Fri Jun 30 10:59:32 GMT+02:00 2000	Сору
dta5.ini	Fri Jun 30 10:59:33 GMT+02:00 2000	
NNM6.INI od20long.ini	Fri Jun 30 10:03:33 GMT+02:00 2000 Evi Jun 30 10:59:33 GMT+02:00 2000	Modity
sms12 ini	Fri Jun 30 10:59:33 GMT+02:00 2000	Deven
SMS20.ini	Tue Sep 05 10:04:17 GMT+02:00 2000	Hename
sms20new.ini	Thu Sep 07 14:00:49 GMT+02:00 2000	Delete
SMS20old.ini	Fri Jun 30 10:59:33 GMT+02:00 2000	Delete
smsmeer.ini	Fri Sep 15 11:27:01 GMT+02:00 2000 📃 💌	
ODBC System Class Image: Create a log file: Image: Class Image: Create a log file: <t< td=""><td>ses C:\Program Files\Hewlett-Packard\OperView\Service Desk 3.0\Server\data_ Browse file: C:\Program Files\Hewlett-Packard\OperView\Service Desk 3.0\Server\data_ Browse s: sms meer</td><td></td></t<>	ses C:\Program Files\Hewlett-Packard\OperView\Service Desk 3.0\Server\data_ Browse file: C:\Program Files\Hewlett-Packard\OperView\Service Desk 3.0\Server\data_ Browse s: sms meer	
	Generate XML now Save ini file	e Close

- 2. Select the generate XML check box if you want to create an XML file. If you want to import the file into Service Desk, you must select this option. Use the Browse button to select a file location.
- 3. In the Application name field, enter the name of the external application you are extracting data from.
- 4. Select Output to screen to view any extraction errors on your screen as the extraction process runs.

5. The extraction process uses ISO-8859-1 encoding as a default. If you want to use a different code, select the Encoding used check box and enter the code that will be used instead, for example UTF8.

Extraction Configuration Wizard Classes

Classes

The Classes tab is the starting point for defining the classes that you want to export. In the classes tab you will see the names of any classes currently in the configuration file, the table and alias source, the parent for the class, if a filter is applied or if the class is blocked:

Figure 5-4 Classes Tab

🖥 Extraction Conl	iguration Wizard						<u>_ </u>
Choose a folder:	C:\Program Files\He	wlett-Packard\OpenView\Service Desk	3.0	Browse			
Name		Modified					New
dannysms20.ini demo_excel.ini dta5.ini NNM6.ini sd30lang.ini sms12.ini SM520.ini sms20new.ini SM520.old.ini smsmeer.ini	Classes	Wed Sep 13 13:45:22 GMT+02:00 20 Fri Jun 30 10:59:32 GMT+02:00 200 Fri Jun 30 10:59:33 GMT+02:00 2000 Fri Jun 30 10:59:33 GMT+02:00 2000 Fri Jun 30 10:59:33 GMT+02:00 2000 Fri Jun 30 10:59:33 GMT+02:00 2000 Thu Sep 05 10:04:17 GMT+02:00 2000 Fri Jun 30 10:59:33 GMT+02:00 2000 Fri Jun 30 10:59:33 GMT+02:00 2000 Fri Sep 15 11:27:01 GMT+02:00 2000	0			•	Copy Modify Rename Delete
Name		Source	Parent		Filters	Blocked	_
SITE PU OS HARDDISK CDROM FLOPPY SOFTWARE		Sites_DATA Sites_DATA, System_DATA Operating_System_DATA Disk_DATA CD_R0M_DATA Logical_Disk_DATA SoftwareInventory, SoftwareProduct	SITE PU PU PU PU PU PU		No No No No Yes Yes	No No No No No No No	
Move up	Move down			Add Generate X	Modify	Remove	Close

- Use the Move up and Move down button to rearrange the classes in the order that the data should be extracted:
- Click Add to add a class to the configuration file.
- To modify an existing class, select the class and click the Modify button on the classes tab.
- If you click Add or Modify, a wizard page will open for selecting source tables.

Select Source Tables

If you are modifying a configuration file, a list of all currently selected tables and their aliases is displayed. When you create a new file this screen will be blank.

To add or remove tables:

1. Click the Source button:

Figure 5-5 Currently Selected Source Tables

Extraction Configuration					
	From which tables do you want Selected Tables	to export data? Table Alias			
	,		Tables		
	< Back	Next >	Cancel		

2. In the dialog box that appears, select one of the available tables from the list and click Add to select it. When it is moved to the Selected tables list you will be able to view the alias for the selected table. You can add, change, or delete the alias name in the Alias for this table field, but it must be unique:



Dialog		×
Available tables:	Selected tables:	
IFC_APPLICATIONS IFC_ASSOCIATION_MEMOS IFC_ASSOCIATIONS IFC_ATTRIB_TYPES IFC_ATTRIBUTE_UI_TYPES IFC_ATTRIBUTES_MEMOS IFC_COLUMNS_MEMOS IFC_COLUMNS_MEMOS IFC_COLUMNS_MEMOS IFC_COLUMNSYPE IFC_DISPLAYFORMAT IFC_ENTITY_MEMOS IFC_ENTITY_MEMOS IFC_INDEX_COLUMNS IFC_INDEX_COLUMNS IFC_INDEX_COLUMNS IFC_INDEX_COLUMNS IFC_INDEX_MEMOS IFC_SEQUENCES IFC_SYSTEM IFC_SEQUENCES IFC_SYSTEM IFC_SYSTEM IFC_SYSTEM IFC_SYSTEM IFC_TABLE_MEMOS IFC_TABLES IFC_TABLES IFC_VERSIONCATEGORIES IFC_VERSIONCATEGORIES IFC_VERSIONS ITSM_ADDRESSES	Add >> << Remove	Afras for this table:
		OK Cancel

- 3. Select a table from the Selected tables list and click Remove to remove it. Once a table is removed the alias name is no longer displayed.
- 4. Use the Describe button to view the columns of a selected table, the Describe pop-up will show the type and values of the columns for the table.
- 5. Use the Show Value button to view the column values of a selected table.
- 6. Click OK to return to the Extraction Configuration Wizard, Currently Selected Source Tables wizard page, and Next to continue.

Select Source Columns

A wizard page appears showing the columns currently selected to be exported from the source tables:
Extraction Configuration	n Wizard	
	Which columns are exported fro	om the source tables?
	Selected columns	Alias
	Sites_DATA.SiteCode	SITENAME
Parton 1	Select distinct	Columns
	< Back	Next > Cancel

Figure 5-7 Currently Selected Table Columns

To select additional data source columns:

1. Click the Columns button to open the table column dialog box where you can add, or remove columns. All the columns of the previously selected tables are available:

Extraction Configuration Wizard Classes

Figure 5-8	Select Table Columns
------------	----------------------

Extraction Configuration				
	Which column	s are exported from	the source tables?	
	🔲 Select disti	inct	Col	umns
		< Back	Next >	Cancel

- 2. Choose a table from the Source drop-down list. The columns of the selected table are listed on the left-hand side of the screen. Select a column from the sources list and click Add to move it into the selected list or Remove to remove items from the selected column list.
- 3. Each column can have an alias. To add an alias for a column, select the column and enter a name in the Alias field. The alias name you create must be unique.
- 4. The Free Text button enables you to enter SQL code to adjust column values. To use Free Text to enter SQL code:
 - a. Click New Field. This creates an entry in the Selected columns field.
 - b. Select the new entry, and click the Free text button. The Free text dialog box is displayed.
 - c. In the Free text dialog box, enter the required SQL code and field names in the Enter free text for this column field.

- d. The Fields button enables you to choose fields from the selected columns to be inserted at the position of the cursor in the Free text field.
- e. The Show Column Results button lists the resulting values produced by the SQL statement in a pop-up dialog box.
- f. Click OK to return to the Select table columns dialog box.
- 5. Use the Show Value button to view the real values of the selected columns.
- 6. Use the Block this column check box to block the currently selected column. You may want to do this, for example, when a column is in a parent relation but you do not want to extract the data. When a column is blocked, it will not be listed behind ATT=.
- 7. Click OK to return to the Extraction Configuration Wizard, Select Source Columns wizard page.
- 8. Choose the Select distinct check box to ensure that duplicate columns are not extracted.
- 9. Click Next to continue.

Enter the Parent Relation

One parent class can be entered for each class. To enter a parent for the class:

1. Select the Yes option in answer to the question "Does this class have a parent?". The default is No, if you do not want to create a parent relation leave the setting as No and click Next:

Extraction Configuration Wizard **Classes**

Figure 5-9Enter Parent Relation

Extraction Configuration Wizard		
	Does this class have a parent? Yes PU No Relation name:	
	How is the parent related to this class?	
	Logical_Disk_DATA.MachinelD	
	Equals Attribute 👻	
	PU System_DATA.IMACHID	
	< Back Next > Cancel	

- 2. Select the class name of the parent in the field on the right from the drop-down list of all previously entered class names.
- 3. The Relation name is optional.
- 4. Click Fields to open a list that includes all tables previously selected for this class. The list will include all columns available for the selected tables. Select one of the columns from the list.
- 5. Click the Attribute button to open a list of previously selected tables for the parent class. The list will include alias names or columns available for the selected tables. Select the appropriate column. This information is entered after the ATT line of the parent in the configurable ini file.
- 6. Click Next to Continue.

Join Tables

Tables can be joined to help link information in columns. For example, you may want to link information from one column to a code table definition listed in another column.

In this dialog box you can see all joined tables for this class:

1. Click Joins to define the conditions for joining tables:

Extraction Configuration	
	How are the tables joined?
	Joins
	< Back Next > Cancel

Figure 5-10 Joined Tables

2. To add a new joining condition, click the Fields button on the left portion of the dialog box. A list of all selected tables and all columns available for those tables will be visible:

Extraction Configuration Wizard **Classes**

Figure 5-11	Add a Joining Condition
-------------	-------------------------

Join Criteria:	Dialog				×
CAdd a join to this list> Remove More updates Fields Fields equals Add C Left column always has a reference in right column C Left column does not always have a reference in right column C Bield column does not always have a reference in light column	Join Criteria:				
More updates Fields ▼ Fields ▼ Fields ▼ equals Add C Left column does not always have a reference in tight column C Bight column C Bight column C Bight column	cAdd a join to this list>				
Fields Fields Fields Fields equals Add C Left column always has a reference in right column C Left column does not always have a reference in right column C Bight column	Marine data				Remove
Fields Fields Fields Fields Image: Field	More updates				
equals Add C Left column always has a reference in right column Left column does not always have a reference in right column Bight column does not always have a reference in left column	Fields -		Fields 🔻		
Add C Left column always has a reference in right column C Left column does not always have a reference in right column C Right column does not always have a reference in left column		equals			
Left column always has a reference in right column Left column does not always have a reference in right column Didtt column does not always have a reference in left column					Add
C Left column does not always have a reference in right column	C Left column always has a reference in right column				
 Bight column does not always have a reletence in left column. 	C Left column does not always have a reference in right co	lumn			
	 Hight coulmn does not always have a reference in left co 	sumn		OK	Cancel

- 3. Select the table and column.
- 4. Click Fields on the right portion of the dialog box. A list of all selected tables and all columns available for those tables will be visible. Select the column you want to join with the one selected in step 2.
- 5. Click Add to add the joining condition to the list.

NOTEThe syntax used by the wizard for a join is a comma (,). When a join is
created by the above method this syntax is automatically used,
however if you are modifying an existing ini file any existing joins
that use LEFT JOIN, JOIN, or RIGHT JOIN will not be displayed in
the wizard. You must replace these joins manually using a text editor,

before they can be displayed.

- 6. The following options are only available for Oracle® database users. Select one of the following options:
 - Left column always has a reference in right column, this refers to an outer join.
 - Left column does not always have a reference in right column, this refers to a left outer join. The left column may be Null.
 - Right column does not always have a reference in left column, this refers to a right outer join. The right column may be Null.
- 7. Click OK to return to the Extraction Configuration Wizard, Join Tables wizard page.
- 8. Click Next to continue.

Filter Data

Filters can be defined for each class being exported. Each filter can then be blocked or activated from a subsequent Filter conditions dialog box.

Extraction Configuration Wizard **Classes**



To create a new filter definition:

1. Click the Filter button to open the Filter conditions dialog box:

Filters			×
Filter Criteria:			
<add a="" filter="" list="" this="" to=""></add>			
			Hemove
More Filters			
	Operator:		
		11	
			Add
			OK Cancel

Figure 5-13 Add a Filter Condition

- 2. Click Fields to select the table and column that you want to apply the filter to.
- 3. In the Operator field, use the drop-down list to select an operator. The Operators available vary depending on the field type, as different operators are needed for text, numbers, or dates. The operator selected may also affect what you do with the Value field. For example, if the field type is numerical and the Between operator is chosen, two value fields are displayed. First place the cursor in one field, click Value and select a value from the list, place the cursor in the other field and repeat the action. For a different field type the Is In operator will show a list of check boxes you can select.
- 4. Click Value to select the value range.
- 5. Click Add when you are finished with the definition. You can add multiple filter definitions for each table column selected.
- 6. Click OK to return to the Extraction Configuration Wizard, Filter Data wizard page.
- 7. Click Next to continue.

Extraction Configuration Wizard Classes

Data Sort Order

Use this wizard page to select the order in which data is exported. This can be an important step if the data being exported needs to be imported in a specific order. This screen initially shows sort order currently defined in the database, to change it:

Figure 5-14 Current Sort Order



1. Click Sort by to open another dialog box where you can establish the sort order:

Sort By		×
Sort by		
Fields	C Ascending C Descending	
Then by		
Fields 🗸	 Ascending Descending 	
-Then by		
Fields 🔻	 Ascending Descending 	
Then by		
Fields 🔻	 Ascending Descending 	
	OK Cancel	

Figure 5-15 Sorting Data

- 2. Click Fields to view a list of all tables and columns previously selected. You can enter a maximum of four table columns per class.
- 3. Click on the table column you want to sort by to enter it in the field.
- 4. Select the Ascending or Descending option for each table column entered.
- 5. Click OK to return to the Extraction Configuration Wizard, Current Sort Order wizard page.
- 6. Click Next to continue.

Enter Settings for Loading Classes

Use this option to achieve a faster extraction rate.

• If you select the Yes option, tables will only be loaded in the system memory and not in the database when exported. This will speed up

Extraction Configuration Wizard Classes

the processing time. You can select this option for each class.

Figure 5-16 Enter Settings for Loading Classes

Extraction Configuration	
	Export can be faster if items are looked up in the system's memory in stead of the database. Do you want to load the tables in memory? Yes No
	Do you want to set a maximum to the number of records fetched? Yes No
	< Back Next > Cancel

- To set a maximum number of records fetched, select the Yes option in the lower half of the dialog box and then type in the number of records. This will limit the number of records extracted from the database to the number entered.
- Click Next to continue.

Name and Block a Class

Use this wizard page to give a name to the settings you have just defined. This name will be displayed in the classes of the wizards main screen.

1. Enter a Name for this class, do not use spaces in the name. This name will appear as the class name in the exported XML file. If you configure the import mapping in Data Exchange you will map this name from the XML file to the correct item in Service Desk:

Extraction Configuration	
	Enter a name for this class:
	You can block this class if you do not want to use it now.
	< Back Finish Cancel

Figure 5-17 Name and Block a Class

- 2. Select the Blocked check box if you do not want to export the class. You can change this option for each class as often as necessary.
- 3. Click Finish to save all of your settings to a temporary table and return to the Classes tab page.

NOTE The setting defined above will not be saved to the ini file until you click Save ini file on the main Extraction Configuration Wizard page, see "Introduction" on page 64.

Error Messages

During the process of configuring an ini file the following error messages may be generated. These problems are most likely to occur when you are modifying a previously configured file.

NOTE The use of upper case and lower case must be consistent within an ini file (for example a table can't be named Sites_DATA in one place and Sites_Data in another). Although this does not produce an error message itself it may be the cause of other messages.

Possible Errors While Reading the ini File

Cannot find parent '<parent_name>'. The class that is mentioned as parent does not exists.

Cannot read from file '<file_name>'. The file is not readable.

Class '<class_name>' cannot have itself as parent. A class cannot have itself as parent defined.

Connection to <dsn_name> as <user_name>/<password> failed. Connection to the external source using the settings in the DSN section failed.

Misplaced brackets in line '<line>' The order or number of brackets [] in the line is not correct.

No '=' in parent relation. No equal sign can be found in the parent relation.

No operator found in condition '<condition>'. The condition does not have an operator.

No references to tables found in condition '<condition>'. There must be 1 (filter) or 2 (join) references to tables or columns in the condition. The table name and column name, or column name only, defined in a filter or join must be found in the database.

No table and column found in ordering '<ordering>'. The ordering should refer to a table and column. The table name and column name, or column name only, defined in a filter or join must be found in the database.

Parsing stopped. Parsing has been stopped due to previous errors.

Unknown columnname '<column_name>' in parent relation. The parent's column mentioned in the parent relation is unknown.

Unknown tablename '<table_name>' in parent relation. The source table mentioned in the parent relation is unknown.

Wrong number of values in condition '<condition>'. The number of values does not match the operator in the condition.

Possible Errors While Writing the ini File

Cannot write to file '<file_name>'. The file is not writable. Extraction Configuration Wizard **Error Messages**

6 Approval

This chapter describes the Approval feature in HP OpenView Service Desk. The information provided in this chapter will optimize the approval process within your IT services.

Approval

The topics covered include:

- Introduction to Approval
- Enabling Approval Sheets
- Creating Approval Sheets
- Activating Approval Sheets
- Monitoring Approval Sheets
- Voting on Approval Sheets

Introduction

The delivery of business-critical IT services depends on prompt decision making. Steps within the IT management process may need to be authorized to provide agreed-upon service levels. Ensuring that the appropriate specialists are involved in decision making before implementation is crucial to productivity. When authorizing IT management processes, it is counter-productive and time-consuming to manually track issues requiring action.

Service Desk Approval provides a structured, process-oriented mechanism that supplies an effective method of managing and authorizing IT management processes.

The following processes are supported by Approval:

- Help Desk Management
- Incident Management
- Problem Management
- Change Management
- Configuration Management
- Project Management

Overview of Approval

Approval provides the ability to automatically request authorization for issues requiring action. For example, a change to your network is required. How can the appropriate specialists authorize this change in a timely manner? Approval ensures that agreements to proposed actions are secured automatically in line with your company's strategy.

When an action requires an approval, an approval sheet must be completed. The status of the approval sheet is initially Inactive. In this stage, the approval sheet indicates a deadline date for a response and the specialists who should authorize the action.

The status of the approval sheet should be changed from Inactive to Active to begin the approval process.

An active approval sheet automatically notifies the approvers within

Approval Introduction

Service Desk in the Service Today view. The approvers then vote by selecting Yes or No. The results are automatically tabulated and, when enough predetermined approvers have authorized the action, the approval status automatically changes to ready. The approval result reflects that the approval task has been completed and, if approved, implementation can begin.

If approvers have not entered a vote at the end of the predetermined approval period, the approval sheet status automatically changes to Ready. The approval result, however, is Rejected.

Approval Process

Figure 6-1 Approval Process



Approval Sheets

Service Desk Item

Approval Sheets can be added to any form within Service Desk. When opening a form, a tab for the Approval Sheet is enabled. The initiator of the approval process as well as the designated approvers will be able to view the approval sheet.

The approval sheet serves dual purposes: as a ballot for the designated approvers as well as a means to start the approval process.

Figure 6-2 Approval Sheet

👖 3 - Change Form With Approval Sheet	
<u>File E</u> dit <u>V</u> iew <u>I</u> ools A <u>c</u> tions <u>H</u> elp	
Save and Close 🛃 Default template	 × ∅ ¾ № № ∅ ↓ ∅ ∅ ↓ ∅ ∅ ↓ ∅ ∅ ↓ ↓
 Due today. 	
ID: 3	General Approval Sheet Work orders Relations Time/Cost Predecessor
Status: To be approved	Approval Status: Inactive
🝟 Configur 🝷 DASFASDE	Deadline: 9/20/2000 14:48
Description:	#Approvers Req 2
new monitor	Strategy: 2 Dut of 2
Information:	
The monitor does not meet the user's requirements	E Approval Hewlett Packard Approval Leam
	Approval Votes
	Approver Approver Organization V Approved
	Long Smith Hewlett Packard
Category:	
Desired Solution:	
purchase and installation of new monitor	
🚰 Project: 👻	
📧 Requestor: 🔻	Add Modify Remove
E Initiator:	Result: Incomplete

The Approval Sheet consists of the following fields:

• Approval Status

The approval status can be set to Inactive, Active or Ready.

• Deadline

This is the last date that a vote on an approval sheet can be received.

• #Approvers Req

The number of accepted votes required by the designated specialists before the process is approved.

• Strategy

The strategy describes how many approvals are required out of the

Approval Introduction

total pool of specialists that were asked to vote. For example, if 10 specialists were asked to approve an action, if your company strategy is that only one of the specialists must approve the process, then the strategy would be 1 out of 10.

• Approval

This field reflects the approval group that would authorize an action. This group can be an organization or several specialists within the same department.

• Approval Votes

Information regarding the specialists voting on actions can be previewed here. The preview contains the approver's name and vote. If the specialist has rejected the action, a reason will be displayed.

Result

This field reflects the results of the voting.

Approval Roles

The responsibilities of your specialists are based on their areas of expertise. To best utilize their knowledge, as well as strengthen your help desk performance, several crucial roles must be identified. The approval roles will assist in developing effective implementation of Service Desk Approval.

To implement the Approval feature, you should identify staff for the following roles within your organization:

1. Approval initiator

An action requiring approval must be identified. This process is completed by specialists, help desk employees, change managers, problem managers, or anyone authorized within your organization.

2. Approval activator

Changing the status of an approval sheet from Inactive to Active is crucial to beginning the approval process. An approval activator can be the approval initiator or someone designated by your organization to review proposed approvals before beginning the approval process.

3. Approver

The specialist who is designated by the approval activator or approval

initiator need to vote on the approval sheets. The specialists are notified automatically of issues requiring their vote. Approvers can be individual specialists or part of a defined group.

4. Approval monitor

To ensure that decisions are made in a timely manner, a role such as a change manager may be designated to monitor approval sheet statuses. If an approval sheet has not been voted upon before the deadline, the approval watcher can be designated for final authorization. Approval Approval Status

Approval Status

Inactive

When the status is set to Inactive, the approval group or approver(s) can be designated on an action. The approvers, however, are not notified until the status is set to Active.

Active

The approval process begins if the status is set to Active. Setting an approval status to Active can be completed manually.

Ready

When an Approval Sheet has been approved or rejected, the status changes to Ready. The requested action is authorized for implementation.

Approval Result

Approved

If the required number of approvals are received, the result will indicate Approved.

Rejected

If the required number of approvals are not received by the deadline date or the approvers have rejected a request, the result will indicate Rejected.

Incomplete

If further information is required before the approval process can begin, the result is incomplete.

Enabling the Approval Sheet

To effectively use the Approval feature, you must have a clear understanding of forms usage in Service Desk. In addition, you need system administrator rights. For additional information, refer to *Service Desk Online Help, Forms.*

An Approval Sheet can be added to the following forms within Service Desk:

- Change
- Project
- Work order
- Service call
- Incident
- Problem

Adding Approval Sheets to Forms

Form settings must include an Approval tab page to implement the Approval feature. For example, you may wish to add an Approval Sheet tab page to the Problem or Incident forms. Follow the steps below to set up or modify forms which do not have Approval Sheets as a standard feature:

- 1. From the Tools menu, click System, then double-click the Presentation icon in the Administrator Console.
- 2. Click the Forms icon in the Navigation pane.
- 3. Select the form you want to add an Approval Sheet to, for example Problem.
- 4. Choose New Page from the Page menu.
- 5. Type Approval Sheet in the Name field.
- 6. Click OK.
- 7. Select Approval from the Attribute list.
- 8. Drag and drop the Approval element from the Attributes list onto

the Approval Sheet.

9. Drag and drop the Initiator element, if required, from the Attributes list onto the Approval Sheet.

To begin an Approval process, an initiator's name must be indicated.

10. Choose Save from the File menu.

11. Close the Administrator console.



📅 Problem - Form Designer	×
Eile Page Help	
	Relations Time/Cost History Approval Sheet Image: Cost Approval Status: Image: Cost Image: Cost Image: Cost Italian: Image: Cost Image: Cost Image: Cost
	Add Modify Remove

Creating Approval Sheets

The first step in the Approval process is the completion of an approval sheet.

To create a task for Approval within a form:

- 1. Click the Approval Sheet tab.
- 2. Enter the initiator's name in the Initiator field.
- 3. Click the Deadline field and enter a date.

The deadline date is crucial in the Approval process. If the approvers have not voted on the Approval Sheet by this date, the request will automatically time out. The Approval Sheet will then be rejected.

4. Enter the name of an approval group in the Approval field. The names of each member of the group or the name of the organization will appear in Approval Votes.

🎢 New - Change Form With Approval Sheet	
<u>File Edit View Tools Actions H</u> elp	
Save and Close	▼ × ⊕ 0 ¥ B C → ▼ 2) .
 Due today. 	
ID:	General Approval Sheet Work orders Relations Time/Cost Predecessor
Status: To be approved	Approval Status: Inactive
🗳 Configur 🝷 SMSCDROM	Deadline: 9/21/2000 09:25
Description:	#Approvers Req
New CD-Rom	Strategy: 0 Out of 0
Information:	Approval
New CD-Rom required	Approval Votes
	Pre <u>v</u> iew
	Approver Approver Organization
Lategory: JUnplanned	
Desired Solution:	
Project:	Add Modify Remove
E Requestor: *	Result:
📧 Initiator: 🔻 Megan Bird)

Figure 6-4 Entering an Approval Group

- 5. In the #Approvers Req field, click the arrow to indicate how many approvals are required. By clicking the up arrow, you will increase the number of required approvals. By clicking the down arrow, you will decrease the number of required approvals.
- $6. \ Click \ {\tt Save and \ Close}.$

NOTE The approval status must be set to Active to be enabled.

Approval Creating Approval Sheets

NOTE The initiator of the approval request as specified in the Initiator field is the only person authorized to complete the deadline and list of approvers.

Adding Approvers Outside of an Approval Group

If the specialists you wish to vote on an approval sheet are not members of a group, use the following method:

Approvers can be designated from approval groups or individually.

To add approvers:

- 1. Select the Approval Sheet.
- 2. Click the Deadline field and enter a date.
- 3. In Approval Votes, right-click your mouse button and select New Approval Vote.
- 4. Enter the approver's name.

👖 New - Change Form With Approval Sheet		
Save and Close	• × 🖨	0 % 🖻 🛍 🔺 🗡 🛛 🗸
<u>File E</u> dit <u>V</u> iew <u>T</u> ools A <u>c</u> tions <u>H</u> elp		
 Due tomorrow. 		
ID:	General Approval	Sheet Work orders Relations Time/Cost Predecessor History
Status:	Approval Status:	Inactive
🚰 Configur 👻	Deadline:	9/20/2000 13:49
Description:	#Approvers Req	
Change video card on PC	Strategy:	0 Out of 0
Information:	🔚 Approval 🝷	
Upgrade video card	Approval Votes	
New - Approval Vote ? X Preview Approved: Approved: Approved: Category: Desired Solution:		
Project: Project: Requestor: Megan Bird	Add	Modify Hemove

Figure 6-5 Adding an Approver

- 5. Click OK.
- 6. In the #Approvers Req field, click the arrow to indicate how many approvals are required, if necessary. By clicking the up arrow, you will increase the number of approvals required by one.

Approval Creating Approval Sheets

Modifying Approvers

To modify approvers:

- 1. Highlight the Approver in Approval Votes.
- 2. Click ${\tt Modify}$ within the Approval Sheet, or double-click the approver's name.
- 3. Make the required changes within Approver.
- 4. Click OK.

NOTE

Once the approval status has been changed from Inactive to Active, you will be unable to modify approvers. Modify is replaced by View when the approval status is Active.

Removing Approvers

To remove approvers from the approval sheet:

- 1. Select the approver's name.
- 2. Click Remove.
- 3. Click Yes in the pop-up dialog box.

Activating Approval Sheets

The approval status is set to Inactive and must be manually changed to Active. When the approval status is Active, the approval process begins.

To change the status of an approval sheet:

- 1. Click the Approval Sheet tab.
- 2. In the Approval Status field, select Active.
- 3. Click Save and Close.

NOTE

When the approval status is Active, approval voting is enabled.

Approval Activating Approval Sheets

Figure 6-6	Approval Status Change

🎢 New - Change Form With Approval Sheet		
<u>File Edit View Tools Actions H</u> elp		
Save and Close 🔚 New Employee	• × 4 0	i 🗈 🛍 🐟 🔹 💟 .
🟮 Due today.		
ID:	General Approval Sheet	Work orders Relations Time/Cost Predecessor
Status: Approved	Approval Status: Inacti	ve
📸 Configur 🝷	Deadline:	/e
Description:	#Approvers Req Active	
New Employee requires PC	Strategy: 1 Out	of 1
Information:		
Configure PC	e Approval • j	
	Approval votes	Preview
		TIC <u>T</u> CW
	Approver	Approver Organization △ Approved
	I om Smith	HPUVSU
V		
Category: Pre-Authorized		
Desired Solution:		
	Add <u>M</u> odify	Remove
	Preview	
v		
Repriect:		
E Deguester *	Result:	
🖭 Initiator: 🔻 Megan Bird		

Monitoring Approval Sheets

A role, such as a change manager, should monitor approval sheets to ensure timely implementation. Approval Sheets, however, can be monitored by anyone within your help desk requiring status information.

To check the status of an approval:

- 1. Open the Approval Sheet.
- 2. Look at the Result field. This field will indicate the current status of of the approval voting process on the Approval Sheet.
- 3. Highlight Approver in Approval Votes.
- 4. Click the Preview button.

Information is displayed on the approver, the approval vote and reason in the Preview pane. To view more specific information, click the View button.

Approval Monitoring Approval Sheets

Figure 6-7Approval Vote Preview

🎢 133 - Change Form With Approval Sheet				
<u>File E</u> dit <u>V</u> iew <u>T</u> ools A <u>c</u> tions <u>H</u> elp				
Save and Close 🕞 Default template	 × ⊕ ∅ ¾ № № ◆ Ø . 			
\Lambda Overdue by 52 days.				
ID: 133	General Approval Sheet Work orders Relations Time/Cost Predecessor			
Status: To be approved	Approval Status: Active			
🕤 Configur 👻 <u>HPUX11</u>	Deadline: 9/22/2000 12:14			
Description:	#Approvers Req 3			
Upgrade from SQL*Net V2 to improve ICIS performance	Strategy: 3 Out of 6			
Information: Desired: SQL*NET V2 in production as communication	E Approval Helpdesk			
protocol for all database access ICIS currently not meeting service level agrrement in terms of response time (3 sec before)	Approval Votes Pręview			
,	Approver Approver Organization			
	User, System Invention Inc.			
	Sheep, Jacques IT Helpdesk unit No			
	Visker, Cornelius IT Helpdesk unit			
	Jefferson, Pauline IT Helpdesk unit			
	Pearson, Agnew IT Operations Department			
v.	Vink, Rebecca Research & Development BU			
Category: CAB	Add View Bernove			
Desired Solution:				
*	Approver Name: Sheep, Jacques			
	Approved: No			
*	Heason: Prefer alternative communication protocol for all database access			
Project: 🔹	Result: Incomplete			
Requestor -				
Permetein Holly				
👖 New - Change Form With <i>I</i>	Approval Sheet			
--	-----------------	------------------	-------------------------------	----------------------
<u>File E</u> dit ⊻iew <u>T</u> ools A <u>c</u> tion	ns <u>H</u> elp			
Save and Close 📳 Nev	v Employee	• × 🖨	0 % 🖻 🛍 📥 🖈 📿	•
 Due today. 				
ID:		General Approval	Sheet Work orders Relations T	ime/Cost Predecessor
Status: Approved	•	Approval Status:	Active	V
📸 Configur 🝷		Deadline:	9/22/2000 09:29	
Description:		#Approvers Req	1	
New Employee requires PC		Strategy:	1 Out of 1	
Information:		🔚 Approval 🔻		
Configure PC		Approval Votes		
				Pre <u>v</u> iew
		Approver	Approver Organization 🔺	Approved
		Tom Smith	HPOVSO	No
	7			
Category: Pre-Authorize	d			
Desired Solution:		Add	View Berrove	
	<u>A</u>	T New - Appro	val Vote	? ×
	_		- 1158	
Project v		Approved:	No	
Rel Requestor		Reason:		· -
Rel Initiator: • Megan Bird		Employee require	ments have changed	

Figure 6-8 Approval Vote View

Approval Voting on Approval Sheets

Voting on Approval Sheets

Once the Approval Sheet is active, specialists are able to access the Approval Vote field of an action requiring their vote. When you click the Modify button, the Approval Vote display box is enabled on the approval sheet.

NOTE When the Approval Vote field is enabled on an action, note the deadline date on the approval sheet. You must approve or reject the request by the deadline date or you will lose your option to vote.

To vote on an Approval Sheet, within the Approval Vote box:

- 1. Click the arrow in the Approved field.
- 2. Select Yes or No. If you select No, type a response in the Reason field

Figure 6-9 Voting Yes on an Approval Sheet



Figure 6-10 Voting No on an Approval Sheet



3. Click OK.

Approval Votes has now been updated to reflect your vote. If you have voted Yes, when the required number of approvals have been received, the Result field will indicate the Approval Sheet has been approved.

If you have voted No, The Result field may indicate that the Approval Sheet has been rejected (depending on the defined strategy).

NOTE When rejecting an Approval, you must supply information in the Reason field.

Approval Voting on Approval Sheets

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