

Entire Operations

Administration

Version 5.5.1

February 2020

This document applies to Entire Operations Version 5.5.1 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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Preface

This documentation describes the administration functions and option settings provided for Entire Operations administrators and users permitted to use selected functions and options as defined in their profile settings.

Accessing Administration Functions	Access administration services.
User Maintenance	List, add, modify and delete user profiles.
Entire Operations Monitor	Display the Monitor status and control the Monitor.
Definition of Nodes	List, add, modify and delete server nodes for different operating system environments.
Entire Operations Defaults	Define defaults for the operating system environment, display settings, logging, networks, jobs, JCL, SYSOUT and others.
Monitor Defaults	Define system files, nodes, activities and tasks for the Entire Operations Monitor.
Monitor Accounting	Enable or disable the Monitor accounting facility.
Global Messages for Events	Define default settings for sending and storing event-specific messages such as job execution errors.
Global User Exits	Define system-wide user exits.
Global Message Code Table	Define message codes to be checked by default after job termination.
Resources	List, add, modify and delete resource definitions.
Mailbox Definition	List, add, modify and delete mailboxes.
Special Functions	Perform system-wide functions such as controlling monitoring activities and jobs in hold, recovering the system and cleaning up the database.
RPC Server Defaults	Define the RPC server used by Entire Operations GUI Client.
Entire Operations Files	View the system files used by Entire Operations.

1 About this Documentation

Document Conventions	. 2
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Document Conventions

Convention	Description	
Bold	Identifies elements on a screen.	
Monospace font	Identifies service names and locations in the format folder.subfolder.service, APIs, Java classes, methods, properties.	
Italic	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text.	
	References to other documentation sources.	
Monospace font	Identifies: Text you must type in. Messages displayed by the system. Program code.	
{}	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.	
1	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol.	
[]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.	
	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis ().	

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Data Protection

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2

Accessing Administration Functions

- > To access functions available for system administration
- From the Main Menu, select the **System Administrator Services** option and press ENTER.

A **System Services Menu** similar to the example below appears:

```
**** Entire Operations ****
15.10.18
                                                              11:55:36
                          System Services Menu User ID SAG
Owner EXAMPLE
     System Services Menu
  1 User Maintenance
  2 Entire Operations Monitor
  3 Definition of Nodes
  4 Entire Operations Defaults
  5 Monitor Defaults
  6 Monitor Accounting
  7 Global Messages for Events
  8 Global User Exits
  9 Global Message Code Table
 10 Resources
 11 Mailbox Definition
 12 Special Functions
 13 RPC Server Defaults
 14 Entire Operations Files
Command => ___
Enter-PF1---PF2---PF3---PF5---PF6---PF7---PF8---PF10--PF11--PF12---
     Help End
```

All administration functions available are described in the remainder of this documentation.

3 User Maintenance

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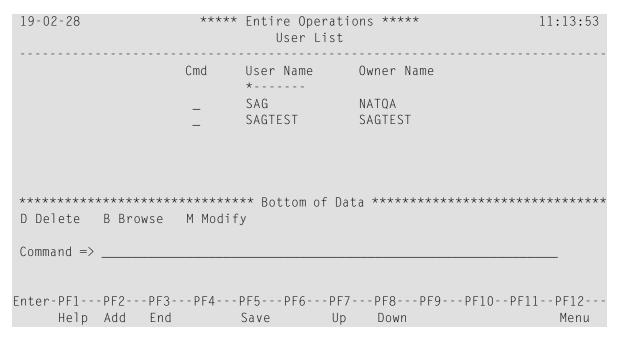
In Entire Operations, a user ID can be used to enter the system. Entire Operations user IDs should, but need not be defined to the host TP monitor. Several users can log on to Entire Operations with the same user ID and password at the same time. For reasons of data security and in order to trace data modifications, however, each user usually has a personal user ID and password.

Listing Users

> To list all users

From the **System Services Menu**, select the **User Maintenance** option and press ENTER.

A **User List** screen with a list of Entire Operations user IDs appears with their associated owner names:



You can scroll the list using PF7 (Up) and PF8 (Down). For a more selective list, add a start value in the first line of the **User Name** column. For example, enter S and press ENTER to start the list with IDs beginning with the letter S.

You can add, delete and modify user profiles using the available line commands and PF keys.

Line Commands: User List

The following line commands are available on the **User List screen**:

Line Command	Description
D	Delete a user definition and profile.
В	View a user definition in read-only mode: see Viewing, Adding and Modifying a User.
М	Modify a user definition and profile: see <i>Viewing, Adding and Modifying a User</i> .

Viewing, Adding and Modifying a User

> To view or modify a user

1 To view a user definition in read-only mode:

On the **User List screen**, enter B (Browse) in the line command input field next to the required user and press ENTER.

Or:

To modify a user definition:

On the **User List screen**, enter M (Modify) in the line command input field next to the required user and press ENTER.

Or:

Use the direct command MODIFY USER as described in the *Direct Commands* documentation.

The **User Definition and Profile** screen appears with the current user definition. In edit mode, you can modify the definition and profile settings in the same way as when adding a user.

2 Choose PF5 (Save) to save any modifications.

To add a user

■ Choose PF2 (Add) on the **User List screen**.

Or:

Use the direct command ADD USER described in the *Direct Commands* documentation.

A **User Definition and Profile** screen similar to the example below appears:

This **User Definition and Profile** screen consists of two sections:

■ The **User Definition** in the upper half of the screen where you define a user to Entire Operations.

For explanations of the fields, see *User Definition and Profile Settings*.

■ The **Profile Settings** section in the lower half of the screen where you define the user's profile.

For explanations of the fields, see the following sections:

Administration Functions
Network Maintenance Functions
Reporting Functions
Monitoring Functions
Representation - Display Settings
Sort Orders in Lists
Selection Criteria Settings

Max. Lines in Log Display: User Definition and Profile Settings

Special PF Keys: User Definition and Profile

PF Key	Name	Function
PF8		Define operating system server default user IDs. See <i>Operating System Server Default User IDs for a User</i> .
PF9	Owner	Link a user to additional owners. See <i>Adding and Removing User/Owner Links and Owners</i> .

User Definition and Profile Settings

You define a user to Entire Operations and set main user defaults by using the fields in the upper section of the **User Definition and Profile screen**.

The fields in the lower section of the **User Definition and Profile screen** are used to define user privileges for distinct maintenance functions and manage individual preferences for default system settings.

User profiles can be modified individually at any time.



Note: We recommend that a user with a modified profile logs off from Entire Operations after the changes are made and logs on again to refresh the session. This guarantees that all profile changes are in effect.

Field	Description	
User ID	Entire Operations user ID.	
	This is the user ID with which the user should log on to Entire Operations.	
	See also the sections <i>Entire Operations User IDs</i> and <i>Operating System User IDs</i> in the <i>User's Guide</i> .	
Owner at	A job network belongs to an owner.	
Logon	Users linked to that owner are allowed to perform any activity on that network. This includes the granting of some job network functions to other users. The owner at logon must always be defined.	
	See also the section Owner at Logon in the User's Guide.	
	You can link additional owners to a user as described in <i>Adding and Removing User/Owner Links and Owners</i> .	
	Note: A user linked to the owner SYSDBA is authorized to access any objects in the whole	
	system.	
Profile	User ID of a predefined template user.	
(optional)	If using a wildcard, a user can be selected from a list.	

Field	Description	
	The selection of an existing user sets all the attributes to the value of the corresponding attributes in the referenced profile. The predefined templates change permission values.	
	The field Profile is reset if an attribute of the user maintenance window is manually modified.	
	Default templates:	
	=GENERAL or =G	Use default general user profile.
	=0PER or =0	Use default operator profile.
	=ADMIN or =A	Use default administrator profile.
	The user's settings can be modified indi	vidually later.
User Type	per Type Determine the tasks the user is allowed to do.	
The value entered here sets certain authorization defaults in the values:		orization defaults in the user profile. Possible
	G	User with general rights.
		The general user can only view and maintain the Entire Operations objects allowed by the administrator.
		In addition, the user can view and maintain the objects allowed to the owners and users associated with the user.
	0	User with operator rights.
		The operator can view and maintain all Entire Operations objects and perform all system maintenance functions allowed by the administrator.
	А	User with administrator rights.
		The administrator can view and maintain any Entire Operations objects and perform any system maintenance functions.
	With these options, the profile settings of a user are predefined. Individual settings can be modified at any time using the options in the Profile Settings section of this screen.	
Language Code	Determine the user language under which Entire Operations is to run. Note: The language can be modified anytime during the session using the direct command SET_LANGUAGE_1 or SET_LANGUAGE_2. Possible values:	
	1	English.
	2	German.
Ĺ		<u> </u>

Field	Description	
E-Mail	E-mail address used for notifications sent to the user by Entire Operations.	
	The commercial at sign (@) can also be coded as (a).	
Mailboxes	Mailbox(es) associated with the user.	
	User is notified of any pending requests linked to these mailboxes. You can specify up to 10 mailboxes per user.	
Administration Functions	See the section Administration Functions.	
Network Maintenance	See the section <i>Network Maintenance Functions</i> .	
Reporting	See the section <i>Reporting Functions</i> .	
Monitoring	See the section <i>Monitoring Functions</i> .	
Representation	n See the section Representation - Display Settings.	
Sort Orders	Invoke the Sort Orders definition for this user. See <i>Sort Orders in Lists</i> .	
Selection Criteria	Invoke the Selection Criteria Settings definition for this user.	
Max. Lines in	Determine the maximum number of lines shown in the log display.	
Log Display	The maximum number can be overridden on the Log Display Selection screen (see <i>Log Information</i> in the <i>User's Guide</i>). A value of zero (0) or an empty field means that there is no line limit.	

Profile Settings for User Authorization

Defining a user profile consists of authorizing the user for a certain level of activity in the various system facilities.

User authorizations fall into the following groups:

- Administration Functions
- Network Maintenance
- Reporting
- Monitoring

You select a group of functions by entering any character in the appropriate input field and pressing ENTER. A window opens with possible functions, the default authorization value according to the **user type** and, optionally, copied profile.

Authorization Options

The user privileges that can be granted for a function depend on the **user type** defined for the user: general user (type G), operator (type O) and system administrator (type A).

You can enter one of the following authorization options for each function listed in the window (press ENTER to save modifications, and choose PF3 to close the window):

Option Setting	Authorization		
Υ	Allow function.		
N	Disallow function.		
blank No access.			
Read access only (no definition/modification of item allowed).			
	Read-only restrictions also apply when using a modify or edit function if provided for an item or a list of items.		
W	Read/write access (definition/modification allowed, but no delete).		
D	Read/write/delete access (all functions allowed).		
<i>other option</i> Specific or additional options that can be set for particular profile settings functions. They are described in the relevant sections of this chapter.			

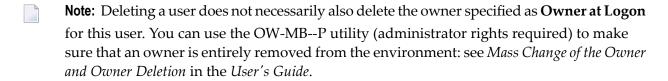
Deleting a User

> To delete a user definition and profile

1 Enter D in the line command field next to the required user listed on the **User List screen** and press ENTER.

A confirmation window opens.

2 Enter the user ID to confirm the deletion and press ENTER to perform the deletion and close the window.



Adding and Removing User/Owner Links and Owners

In addition to the **Owner at Logon** who must be defined in a user profile, you can link a user to other owners and remove existing links or delete owners.

If other owners are defined, the user can switch to one of them during the session. The user is also authorized to access the objects belonging to the other owners by using the SET OWNER direct command (see the *Direct Commands* documentation).



Notes:

- 1. A user linked to the owner SYSDBA is authorized to access any object in the entire Entire Operations system environment.
- 2. New owner names must start with a letter and may not contain blanks.
 - Linking Users to Owners
 - Deleting Owner Links or Owners

Related Topic:

Using Owners in the User's Guide.

Linking Users to Owners

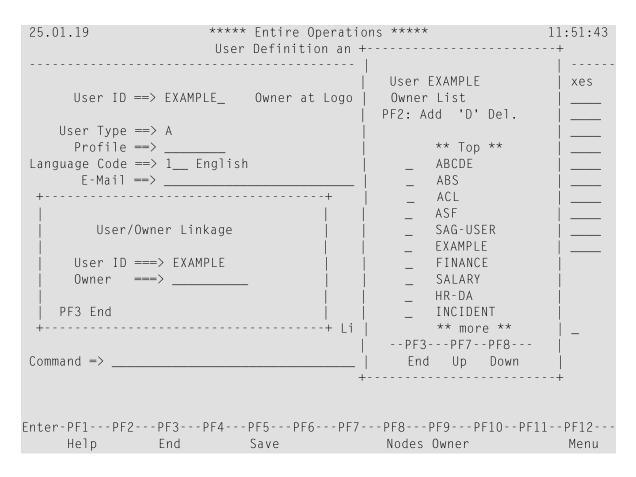
- To link a user to an additional owner
- 1 Choose PF9 (Owner) on the User Definition and Profile screen.

An **Owner List** window similar to the example below opens:

```
25.01.19
                  **** Entire Operations **** 11:51:43
            User Definition an +----+
                                     User EXAMPLE
                                                       xes
    User ID ==> EXAMPLE_ Owner at Logo |
                                     Owner List
                                     PF2: Add 'D' Del.
   User Type ==> A
Profile ==> ____
Language Code ==> 1__ English
                                          ** Top **
                                          ABCDE
                                          ABS
     E-Mail ==> _____
                                       _ ACL
_ ASF
                                          SAG-USER
                                          EXAMPLE
Profile Settings
                                         FINANCE
 Administration Functions ==> _
                                       _ SALARY
     Network Maintenance ==> _
                                      _ HR-DA
            Reporting ==> _ | _ INCIDENT | wonitoring ==> _ Max. Li | ** more **
                                     --PF3---PF7--PF8---
Command => ____
                                      End Up Down
Enter-PF1---PF3---PF3---PF5---PF6---PF7---PF8---PF10--PF11--PF12---
    Help End Save Nodes Owner
```

2 Choose PF2 (Add) to link a new owner.

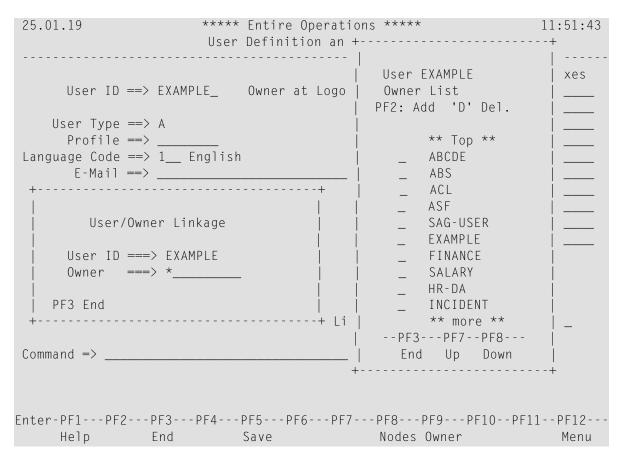
A **User/Owner Linkage** window opens on the left:



In the **Owner** field, enter the name of a new owner to whom you want to link the user and press ENTER.

Or:

In the **Owner** field, enter an asterisk (*) to select an owner from a list of available owners:



In the **Owner Selection** window, enter any character in the input field next to the required owner and press ENTER.

The owner is added in the **User/Owner Linkage** window.

4 Choose PF3 (End) to close the selection window.

The selection window closes and the new owner is added in the **Owner List** window.

5 Choose PF3 (End) to close all windows and return to the **User Definition and Profile screen**.

Deleting Owner Links or Owners

> To delete an owner link or an owner

Replace the name in the Owner at Logon field of the User Definition and Profile screen.

Or:

In the **Owner List window**, enter D in the input field next to the owner link you want to delete and press enter.

A confirmation window prompts you to confirm the deletion by entering the name of the owner.

The link to the owner is removed for the selected user, or the owner is deleted if not associated with any other users.

The following applies when deleting an owner from a list or maintenance window:

- The owner cannot be deleted if it is still linked to the following Entire Operations objects: calendar, network, symbol table and/or event.
- Furthermore, an owner cannot be deleted if it is specified as the main owner (**Owner at Logon**) for any user. You have to replace the name before you can delete the owner.
- If an owner is deleted, all links to the user are removed.
- Deleting an owner from a list or window does not necessarily delete all references associated with this user. The owner can remain unused in your environment. Use the OW-MB--P utility (administrator rights required) to make sure that an owner is entirely removed: see *Mass Change of the Owner and Owner Deletion* in the section *Entire Operations Utilities*.

Administration Functions

If you select **Administration Functions** on the **User Definition and Profile screen**, you can authorize a user (see *Authorization Options*) to perform the administration functions described in the following table.

The table indicates the default setting that applies to each **user type**: **A** is system administrator, **O** is operator and **G** is general user.

Function	Description	Option	Default for User Type			
			Α	0	G	
User Definition	Specifies access rights in the user maintenance facility. If R (read) or no access permission is specified here, the list command only returns information for this user. The modify command is allowed only for objects owned by the user.		D	no rights	no rights	
Auto Logon Definition	Specifies default node user IDs for automatic node logon. See also <i>Defining Node Default User IDs</i> .	Y or N	N	N	N	
Resource Master Specifies access rights in the master resource definition facility.		blank, R, W or	D	D	no rights	
Node Definition	Specifies access rights in the node maintenance facility.	blank, R, W or D	D	D	no rights	

Function	Description	Option	Default for User Type			
			Α	0	G	
Defaults Definition	Specifies access rights in the Entire Operations defaults facility.	blank, R, W or D	D	no rights	no rights	
Mailbox Definition	Specifies access rights in the mailbox definition facility.	blank, R, W or	D	D	no rights	
Monitor Start/Shutdown	Authorizes the user to start or shutdown the Entire Operations Monitor manually and display Monitor status information, or to use the corresponding STATUS direct command (see the <i>Direct Commands</i> documentation).	Y or N	Y	Y	N	
Special Functions	Authorizes the user to perform special global, control and recovery functions. See the section <i>Special Functions</i> .	Y or N	Y	N	N	
Other Functions	Other Functions Authorizes the user to access the global message code table and perform special functions.		Υ	N	N	
Import/Export	Authorizes the user to perform import/export functions. See also the <i>Import/Export Functions</i> documentation.	Y or N	Υ	N	N	

Network Maintenance Functions

If you select **Network Maintenance** on the **User Definition and Profile screen**, you can authorize a user (see *Authorization Options*) to perform the job and network maintenance function on the master database described in the following table.

The table indicates the default setting that applies to each **user type**: **A** is system administrator, **O** is operator and **G** is general user.

Function	Description	Option	Default for User Type		Туре
			Α	0	G
Network Definition	Specifies access rights in the network maintenance facility (see the <i>User's Guide</i>). The user for which D is specified here, is also allowed to deactivate networks or jobs.	blank, R, W or D	D	no rights	no rights
Job Definition	Specifies access rights in the job maintenance facility (see the <i>User's Guide</i>).	<i>blank</i> , R, W or	D	no rights	no rights
Prerequisite Definitions	Specifies access rights in the condition maintenance and resource specification at job level (see the <i>User's Guide</i>).	blank, R, W or	D	no rights	no rights

Function	Description		Option	Default for User Type			
				Α	0	G	
EOJ Checking + Actions	Specifies access rights and actions facility (see	in the End-of-Job checking e the <i>User's Guide</i>).	blank, R, W or D	D	no rights	no rights	
JCL Definition	Specifies access rights to JCL definitions including editing.		<i>blank</i> , R, W or	D	no rights	no rights	
Description Display			<i>blank</i> , R, W or	D	no rights	no rights	
Symbol Tables			<i>blank</i> , R, W or	D	no rights	no rights	
Schedules			<i>blank</i> , R, W or	D	no rights	no rights	
Calendars	Specifies access rights in facility (see the <i>User's</i> 0	n the calendar maintenance <i>Guide</i>).	<i>blank</i> , R, W or	D	no rights	no rights	
Editor Autosave	If Y is defined here, the ON is active at the start	editor feature AUTOSAVE of the editing session.	Y or N	Υ	no rights	Υ	
Last Run	List of active jobs:		S or P	S	S	S	
Display	S	Use the last submitted run as the default for the run number preselection (default).					
	Р	Use the last prompted run as the default for the run number preselection.					

Reporting Functions

If you select **Reporting** on the **User Definition and Profile screen**, you can authorize a user (see *Authorization Options*) to perform the report functions described in the following table.

The table indicates the default setting that applies to each $user\ type$: **A** is system administrator, **O** is operator and **G** is general user.

For detailed information on the reports mentioned in the table, see the section *Reporting* and *Report Types* in the *User's Guide*.

Function	Description	Option	Defa	ult for U	ser Type
			Α	0	G
Wildcards in Online Selections	Authorizes the user to use wildcards in selections for online reports (see <i>Generating Online Reports</i> in the <i>User's Guide</i>).	Y or N	Y	Y	N
Log of Abended Jobs	Authorizes the user to display the Log - Abended Jobs and the Log - Jobs not started reports.	Y or N	Υ	N	Y
Log of Completed Jobs	og of Completed Jobs Authorizes the user to display the Log - Terminated Jobs report.		Υ	N	Y
Network Activation & Schedule	& Authorizes the user to activate job networks, and display the Network Start Summary and Network Schedule Overview reports.		Υ	N	Y
Network Description (short)	Authorizes the user to display the Network Description (short) report.	Y or N	Υ	N	Y
Network Description (detailed)	Authorizes the user to display the Network Description (detailed) report.	Y or N	Υ	N	Y
Schedule of Jobs	Authorizes the user to display the Schedule of Jobs report.	Y or N	Υ	N	Y
Job Flow	Authorizes the user to display the Job Flow of Network report.	Y or N	Υ	N	Y
Accounting Information	Authorizes the user to display Accounting Information report.	Y or N	Υ	N	Y
Symbol Printing after Prompting	Determines whether all symbols are saved as a file after prompting (see also <i>Symbol Prompting during Network Activation</i> in the <i>User's Guide</i>).	Y or N	Y	Y	Y
Cross-References	Authorizes use of the Cross-References report function (see the <i>User's Guide</i>) and the corresponding XREF direct command (see the <i>Direct Commands</i> documentation).	Y or N	Υ	N	Y

Monitoring Functions

If you select **Monitoring** on the **User Definition and Profile screen**, you can authorize a user (see *Authorization Options*) to perform the operations on jobs in the active database described in the following table.

The table indicates the default setting that applies to each $user\ type$: **A** is system administrator, **O** is operator and **G** is general user.

Function	Description	Option	Default for User Type		
			Α	0	G
Active Jobs	Specifies access rights for modifications to active jobs (see the <i>User's Guide</i>).	blank, R, W or D	D	D	D
	The user for which $\mathbb D$ is specified here, is also allowed to deactivate networks or jobs.				
Show MailboxAuthorizes the user to display and react on mailboxRequestsmessages (see the User's Guide), and use the correspondingMAIL or LIST MAILBOX direct command (see the Direct Commands documentation).		Y or N	Y	Y	Y
		blank, R, W or D	D	D	D
Act. EOJ Checking + Actions	Specifies access rights for End-of-Job checking and actions (see the <i>User's Guide</i>) for an active job.	blank, R, W or D	D	D	D
Active JCL Editing	Specifies access rights for editing JCL of an active job (see the <i>User's Guide</i>).	blank, R, W or D	D	D	D
Active Conditions	Specifies access right for active job conditions (see the <i>User's Guide</i>).	blank, R, W or D	D	D	D
Active Prerequisite Resources	Specifies access rights for active prerequisite resource definitions (see the <i>User's Guide</i>).	blank, R, W	D	D	R
Resource Usage	Specifies access rights to resource usage lists and definitions (see the <i>User's Guide</i>).	<i>b1ank</i> , R or D	D	D	R
Activate Network	Authorizes the user to activate networks manually (see the <i>User's Guide</i>).	Y or N	Y	Y	Y
	If the user is allowed to activate networks, the user may also deactivate networks or jobs.				
Resubmit Job	Authorizes the user to use the resubmit function for an active job (see the <i>User's Guide</i>).	Y or N	Y	Y	Y
Hold/Release Job	Authorizes the user to put an active job on hold or release an active job (see the <i>User's Guide</i>).	Y or N	Y	Y	Y
Display Job SYSOUT	Authorizes the user to view job SYSOUT of a job run (see the <i>User's Guide</i>).	Y or N	Y	Y	Y
Cancel Job	Authorizes the user to cancel a running job (see the <i>User's Guide</i>).	Y or N	Y	Y	Y

Function	Description		Option	Default for User Type			
				A	0	G	
Log Display		to view Entire Operations logs (see owners associated with this user ID.	Y, N, L or 0	Y	Y	Y	
	Υ	Allow function.					
	N	Disallow function.	1				
	L	Allow function for all owners associated with this user ID.					
		(Applies to User Type G only.)					
	0	Allow function for the Owner at Logon only (see the <i>User's Guide</i>).					
		(Applies to User Type G only.)					

Representation - Display Settings

If you select the **Representation** option on the **User Definition and Profile** screen, you can specify default display settings. The fields available are described in the following table.

The table indicates the default setting that applies to each $user\ type$: A is system administrator, O is operator and G is general user.

Field	Description	Option Default for Use		er Type	
			Α	0	G
Node representation	Nodes are displayed in numeric (N) or mnemonic (M) format.	N or M	N	N	N
	Note: For master objects, symbol usage is possible in both cases.				
Symbol list: long fields	Symbol names with more than 20 characters are truncated (N) or completely displayed (Y) on the screen.	Y or N	Υ	N	N
Log messages with message code	Messages in the log display are prefixed (Y) or not prefixed (N) with their message code if one exists.	Y or N	N	N	N
	If set to Y, the message text is prefixed with the message code, for example: EOR2260 - Network activation performed.				

Field	Description	Option	Default for User T		r Type
			Α	0	G
	See also the Message column in the example of a system log shown in the <i>User's Guide</i> .				

User Attributes for Character Interface and GUI Client

There are three groups of user attributes:

Туре	Defined Interface
User attributes relevant for the Entire Operations character interface and Entire Operations GUI Client.	Can be defined in both the Entire Operations character interface and Entire Operations GUI Client.
User attributes relevant for the Entire Operations character interface only.	Can be defined in the Entire Operations character interface only.
User attributes relevant for Entire Operations GUI Client only.	Can be defined in Entire Operations GUI Client only.

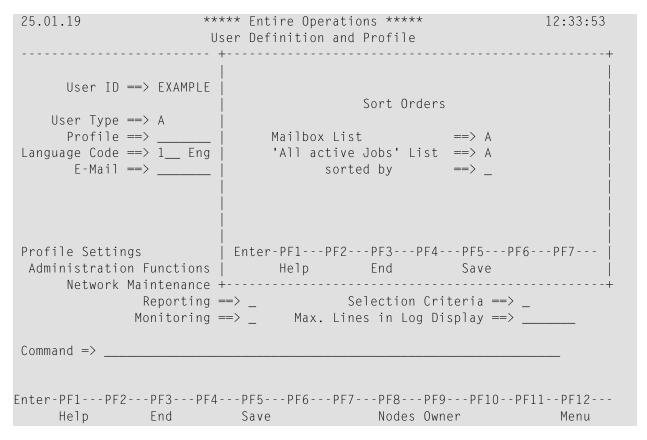
Selection Criteria Settings

If you select **Selection Criteria** on the **User Definition and Profile screen**, you can preset selection criteria for network lists.

Field	Meaning	
Network List	0	Networks of owner.
	G	Owner granted networks.
	А	Active networks only.
	R	With number of active runs.
	U	User granted networks.
	Multiple selection	ons are possible.

Sort Orders in Lists

You can set the default sort order for object lists by using the **Sort Orders** option of the **User Definition and Profile screen**:



The fields contained in the window are explained in the following table:

Field	Meaning	
Mailbox List	Sort sequence for the mailbox list.	
	A	Sorted in ascending order.
	D	Sorted in descending order.
All active Jobs List	Sort sequence for listing active jobs (see <i>Active Job Networks</i> in the <i>User's Guide</i>).	
	А	Sorted in ascending order.
	D	Sorted in descending order.
sorted by	Active jobs list sorted by:	
	1 1	Sorted by owner/network/run/job.
	Т	Sorted by timestamp.

Operating System Server Default User IDs for a User

For each operating system server node a user is working with, you can define a node default user ID per user. By default, the content of the Natural system variable *USER (described in the Natural System Variables documentation) is used for a node logon.

You can define single or multiple node default user IDs for a user. Apart from these node/user definitions, a user can, of course, also use any other node user IDs that are not defined in the user profile.

This section describes how to define node default user IDs for a selected user. For a mass change to node/user definitions, you can use the NOPUNA-P utility described in *Mass Update for User Access to Nodes* in the *User's Guide*.

- Defining Node Default User IDs
- Fields and Columns: Node Default User IDs
- Special PF Keys: Node Default User IDs
- Line Commands: Node Default User IDs
- Deleting Node Default User ID Definitions

Related Topics:

- *Operating System User IDs* in the *User's Guide*
- Mass Update for User Access to Nodes in the User's Guide

Defining Node Default User IDs

- To define a node default user ID for a user.
- 1 Choose PF8 on the User Definition and Profile screen.

A **Node Default User IDs** screen similar to the following appears:

```
05.07.18
                    **** Entire Operations *****
                                                          17:11:40
User EXAMPLE
                      Node Default User IDs
Cmd Node
               User ID
                                 Group
                                                  LD AJ AS
   N0010 (10) DEMO
   NO401 (401) WIN-UID4
                                 EUR
                                                     Υ
   N0020 (20) NPRUSR20
                                                  YYY
     333
               UNIX-ID
                                 UNIX-GROUP1
*************************** Bottom of Data ********************
D Delete M Modify
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help Add
                         Save Up
```

All node default user IDs defined for the selected user are listed on the screen.

(The list is empty if no default user IDs have yet been defined for the selected user.)

The columns on the screen are explained in *Fields and Columns: Node Default User IDs*.

If you want to modify a user definition, type M in the line command input field next to the node definition you want to change, and press ENTER.

Or:

If you want to add a user definition, choose PF2.

A **Node Default User ID for User** window similar to the example below opens:

+	+
Node Default User ID for User EXAMPLE	İ
	ĺ
Node	İ
User ID	İ
Group ==>	İ
Logon Default ==> _	İ
Auto Logon for JCL ==> _ for SYSOUT ==> _	İ
	İ
PF1PF3PF5	-
Help End Save	i
+	+

3 Add or replace the required values.

The input fields are described in *Fields and Columns: Node Default User IDs*.

4 Choose PF5 to save your entries.

The window closes and the node default definition is added to or updated on the **Node Default User IDs** screen.

Fields and Columns: Node Default User IDs

The columns on the **Node Default User IDs** screen and the corresponding fields in the **Node Default User ID for User window** are explained in the following table:

Field/Column	Description		
Node	Number defined for a node (see also Fields: Node Definition).		
	The Node column lists the short node name followed by the node number in parentheses.		
User ID	Operating system user ID to be used for t	he node.	
Group	Name of a UNIX group or Windows domain to be used for the node logon if defined for the respective UNIX or Windows node (see also <i>Default Group</i>).		
	A group name is not evaluated for mainfa	rame nodes.	
	See also Operating System User ID, Group,	Domain in the User's Guide.	
Logon Default	Only applies if several node default user	IDs are defined for a user and node.	
(column LD)	Select this option for the node user ID to	be used by default for a node logon.	
	You can specify only one logon default per user and node.		
	If no logon default is specified, the default user ID (if defined) of the node is used. See also <i>Other Definitions for a Node (Mainframe)</i> and <i>Other Definitions for a Node (UNIX and Windows)</i> .		
	If only one operating system user ID is defined for a user and node, the Node Logon window is preset to this user ID.		
	Possible values:		
	Υ	Use as the logon default.	
	N Do not use as the logon default (default).		
	or blank		
Auto Logon for	(Administrator rights required.)		
JCL (column AJ)	Select this option to allow the specified us for browsing JCL.	er to automatically log on to the specified node	
	Possible values:		

Field/Column	Description	
	Y Enable automatic logon.	
	N	Do not enable automatic logon (default).
	or blank	
Auto Logon for SYSOUT	(Administrator rights required.) Select this option to allow the specified user to automatically log on to the specified node	
(column AS)	for browsing SYSOUT. Possible values:	
	Y Enable automatic logon.	
	N	Do not enable automatic logon (default).
	or blank	

Special PF Keys: Node Default User IDs

PF Key	Name	Function	
PF2	Add	Add a node default definition.	

Line Commands: Node Default User IDs

Line Command	Description
D	Delete a node default definition.
М	Modify a node default definition.

Deleting Node Default User ID Definitions

> To delete a node default user ID for a user

■ On the Node Default User IDs screen, type D in the line command input field next to the node definition you want to delete, and press ENTER.

The node definition is removed from the screen.

Defining Subadministrators

Defining subadministrators allows you to grant access rights which are not offered by the standard user maintenance facility of Entire Operations.

If the Natural object US-EX--N (delivered with Entire Operations) is not modified, it represents the standard user maintenance facility: Each user is allowed to read, write or delete user definitions, or is excluded from any user maintenance.

> To define subadministrators

Modify the Natural object US-EX--N contained in the Natural system library SYSEOR.
 Using US-EX--N you can define any number of relationships between Entire Operations users.

US-EX--N requires the following parameters:

- USER-1 is the subadministrator, that is, the user who defines other users. His rights over USER-2 are defined in the specification of a return code.
- USER-2 the user who is defined by USER-1.
- RC (return code) defines the rights of USER-1 and the relationships between USER-1 and USER-2.

Data Set Name	Contents
Υ	USER-1 can display, change and delete USER-2.
R	USER-1 can display USER-2.
other values	USER-1 cannot display, change and delete USER-2.

The above entries are made in the DISPLAY MODIFY DELETE section of US-EX--N.

In the ADD section of US-EX--N, you specify if a subadministrator is allowed to add other users. In this case, USER-1 must be set to Y. Any entry other than Y signifies that USER-1 is not allowed to create further users. USER-2 is unused.

In the following you will find an example of US-EX--N which you can use to adapt the program to the needs at your site.

The program does not check whether USER-1 and USER-2 belong to the same owner. You can specify subadministrators independently of their owners. If USER-1 and USER-2 are identical, there are no restrictions.

Example

```
* US-EX--N
* NOP USER Modification
* This exit is called by US-DEF-P and US-LI--P to give certain
* users limited rights on other users (specify Subadministrator)
* MODIFICATIONS:
* 09.01.97 (160039) User exit for defining subadministrators   GFR212
DEFINE DATA
PARAMETER
                   (A08) /* IN
(A08) /* IN
1 P-USER-1
1 P-USER-2
1 P-US-EX-RC
                   (A1)
                           /* OUT
END-DEFINE
RESET P-US-EX-RC
* Users modifies himself
IF P-USER-1 = P-USER-2
 P-US-EX-RC := 'Y'
 ESCAPE ROUTINE
END-IF
IF P-USER-1 NE ' '
 IF P-USER-2 NE ' '
 ******************
* DISPLAY MODIFY DELETE - Section
 *****************
   P-US-EX-RC := 'Y' /* 'R' /* 'Y'
                               means DISPLAY only
                                    means DELETE MODIFY
* For all users we give back 'Y' as return code
 Example for subadministrator ABC
  IF P-USER-1 = 'ABC'
    IF P-USER-2 = 'XYZ'
     MOVE 'Y' TO P-US-EX-RC /* can modify or delete user XYZ
     MOVE 'R' TO P-US-EX-RC /* can display all others
    END-IF
   END-IF
 FLSF
* ***********************
* ADD - Section
 *******************
                    /* 'Y' means ADD allowed
```

```
P-US-EX-RC := 'Y' /* anything else means ADD not allowed

* For all users we give back 'Y' as return code

* Example for subadministrator ABC

* IF P-USER-1 = 'ABC'

* MOVE 'N' TO P-US-EX-RC /* cannot add any user

* END-IF
END-IF
END-IF
END-IF
```

4 Entire Operations Monitor

 Status of the Entire Operations Monitor 	 21
	 יט

The Entire Operations Monitor is the basic operational component Entire Operations requires to maintain job networks.

For details, see *Entire Operations Monitor* in the *Concepts and Facilities* documentation.

Status of the Entire Operations Monitor

- > To control the Entire Operations Monitor and display status information
- From the **System Services Menu**, select the **Entire Operations Monitor** option and press ENTER.

Or:

Use the direct command STATUS as described in the *Direct Commands* documentation.

An Entire Operations Monitor window similar to the example below opens:

```
18-05-15 ***** Entire Operations ***** 17:50 Owner EXAMPLE System Services Menu User ID SAG
                                                             17:50:58
  1 Use | 18-05-15 Entire Operations Monitor 17:51:02
  2 Ent |
            Action ==> _
  3 Def |
                                          S Start
  4 Ent |
                                          C Shutdown
  5 Mon | OpSys Server ==> NOP-Serv1
6 Glo | Task Name ==> 55B01
  7 Glo |
  8 Glo |
                  Status ==> active
  9 Res | Last active at ==> 17:50:58 on 18-05-15
 10 Mai |
 11 Spe |
          Wait Time ==> 10 Seconds
 12 RPC I
           -----PF1---PF3-------PF9------
                Help End Tasks
Enter-PF1---PF3---PF3---PF5---PF6---PF7---PF8---PF10--PF11--PF12---
     Help End
                                                                Menu
```

The window contains information on the current status of the Monitor and input fields with which you can start and stop the Monitor. The fields are explained in *Fields: Entire Operations Monitor*.

If tasks have been defined for the Monitor (see *Defining a Monitor Task Profile*), you can display the current task status by pressing PF9 (Tasks).

A **Monitor Tasks** screen similar to the example below appears:

18-05-15	***** Entire Operations ***** Monitor Tasks	17:54:27
Cmd Task Status _ 55801 active _ 55802 active _ 55803 active _ 55804 active _ 55805 active _ 55807 active _ 55809 active _ 55810 active _ 55890 active _ 55890 active _ 55891 active	05-15 17:37 05-15 17:37 05-15 17:37 05-15 17:37 05-15 17:37 05-15 17:37 05-15 17:37 05-15 17:37 05-15 17:37	17:54:26 5 0.1 % 17:54:26 5 0.3 % 17:54:26 5 0.1 % 17:54:22 5 0.1 % 17:54:22 5 0.2 %
Command =>	3 PF4 PF5 PF6 PF7 PF8 P d	F9PF10PF11PF12 Menu

For explanations of the columns, see *Columns: Monitor Tasks*.

3 Choose PF3 (End) to close the window.

This section covers the following topics:

■ Fields: Entire Operations Monitor

■ Line Commands: Entire Operations Monitor

■ Special PF Keys: Entire Operations Monitor

■ Columns: Monitor Tasks

■ Line Commands: Monitor Tasks

Controlling the Monitor Status from a Mainframe Console

Fields: Entire Operations Monitor

The fields in the **Entire Operations Monitor** window are explained in the following table:

Field	Meaning	
Action	Line command input field.	
	For possible line commands, see <i>Line Commands: Entire Operations Monitor</i> .	
OpSys Server	Entire System Server internal task name under which the Entire Operations Monitor is running.	
Task Name	Name of the Monitor main task. The syntax (explained in <i>Direct Command Syntax</i>) is as follows:	
	{task-prefix}{task-number}	
	Example:	
	If the task prefix is E01 and the task number is 1, the subtask name will be displayed as E0101.	
	For further information, see also <i>Monitor Task Prefix</i> .	
Status	Protected field showing the current status of the Entire Operations Monitor.	
Last active at	Date and time of the last Monitor activity.	
	See also Date and Time Formats in the User's Guide.	
Wait Time	Interval between Entire Operations Monitor working cycles in seconds.	
When you start the Monitor, the value is taken from the Global Monitor Wa in the Monitor Defaults .		
	You can modify the Monitor task wait times of the current Monitor session individually on the Monitor Tasks screen (accessible with PF9).	

Line Commands: Entire Operations Monitor

The following one-character line commands are available in the **Entire Operations Monitor** window:

Line Command	Description
S	Start the Monitor.
	Delay before a Monitor restart:
	Any Monitor restart which will be performed earlier than Monitor termination time plus three (3) times the Monitor wait time is assumed to be a duplicate Monitor (task) start.
	Avoid restarting the Monitor within this time interval.

Line Command	Description
С	Shut down the Monitor.
	No data is lost. If you are working in z/OS, you can also shut down the Monitor from the operator console by entering the command SHUTDOWN SYSEOR.

Special PF Keys: Entire Operations Monitor

The following special PF key is available in the **Entire Operations Monitor** window:

PF Key	Name	Function
PF9	Tasks	Displays the Monitor Tasks list.

Columns: Monitor Tasks

The columns on the **Monitor Tasks screen** are explained in the following section.

Column	Meaning	
Cmd	Line command input field.	
	Possible commands are described in <i>Line</i> Commands: Monitor Tasks.	
Task	Name of the Monitor (sub)task.	
	For further information, see also Task Name .	
Status	Status of the (sub)task.	
	If the Monitor is executed on UNIX or Windows, the status text may be followed by the process ID of the Monitor task.	
	Example:	
	Active (PID 9174)	
Started	Time at which the task was started.	
Active	Time of the last activity.	
Wait Time	Active Monitor task wait time.	
	This value is modifiable. It can be defined individually for each Monitor task.	
	Values changed here are in effect for the current Monitor session only.	
	The value Global Monitor Wait Time from the Monitor Defaults will be used if no value is specified here. For details, see <i>Monitor Defaults</i> .	
	The default wait time modification (for all Monitor sessions) is described in <i>Fields: Monitor Task Profile</i> .	

Column	Meaning
	Percentage of task activity within real time, calculated from the task start or from the last task reconfiguration.

Line Commands: Monitor Tasks

The one-character line commands available on the **Monitor Tasks** screen are explained in the following section.

Line Command	Description
Н	Hold a task.
R	Release a task.

For a description of how to customize Monitor tasks, see the section *Defining a Monitor Task Profile*.

Controlling the Monitor Status from a Mainframe Console

If the Entire Operations Monitor is executing on a mainframe, it is possible to check the Monitor status by an operator command to the Monitor node (Entire System Server).

The command is STATUS MONITOR.

The output of this command is a status line for each Monitor task.

5 Definition of Nodes

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SAP Definitions (UNIX and Windows)	
Deleting a Node Definition	

Nodes are Entire System Server nuclei or Entire System Server/UNIX servers and refer to machines or CPUs on which requests to the operating system are executed. They are distinguished by numerical identifiers in the same way as database IDs distinguish between different Adabas databases.

If you are using Entire Operations in a multi-CPU environment, you must define node numbers for machines. Networks and jobs can thus be defined to run under Entire Operations control on different nodes.

Within Entire Operations, each UNIX and Windows server is assigned a node number. More than one operating system server node can reside in one physical machine. The machines identified by node IDs can run different target operating systems.

Entire Operations recognizes the operating system, thus allowing cross-operating-system job control. Communication paths between otherwise isolated nodes are provided by the Software AG products Entire Net-work and EntireX Broker, which allow a transparent connection of nodes, irrespective of how they are physically linked.

For an example scenario, see the section *Entire Operations in Client/Server Environments* in the *Installation and Setup* documentation.

Related Topic:

Logging on and off an Operating System Server Node in the User's Guide

Listing all Nodes

- > To list all nodes defined to Entire Operations
- 1 From the Main Menu, select the **System Administrator Services** option and press ENTER.
 - The System Services Menu appears.
- 2 Select the **Definition of Nodes** option and press ENTER.

An **Operating System Server (Node) Table** screen similar to the example below appears:

08.0	3.16	***	** Enti	re ()peration	ıs *****			16:	53:59
Owne	er EXAMPLE	0perat	ing Sys	tem	Server	(Node) Tab	ole			
						Wait a.		vse	 Time	
Cmd	Node Name	Number	Short	АМ	Op.Sys.	Error	SSU	SysId	Diff.	Valid
_	Node 0001	1	N0001	Ν		4	U	3	-11.50	yes
_	Node 0002	2	N0002	Ν	BS2000	5				yes
_	n4	4	N4	В		5			10.00	yes
_	n5	5	N5	В		5				yes
- - -	Adabas DB 9	9	N0009	N		5				yes
_	TEST	12	HUG0	N		5				yes
_	hannes	21	21	N		5				yes
_	BS2000 SIH2	31	N0031	N	BS2000	1	U			yes
_	Broker 34	34	N0034	N	rted	5				yes
_	BS2 131	38	N0038	N	BS2000	5				yes
_	NPR 321	40	N0040	N	MVS/ESA	5				yes
_	Loc1 Nd DQA V13	4 42	N0042	N	MVS/ESA	5				yes
	oker D Delete	I Info	M Modi	fy	0 Other	S SAP				
	nand =>									
Enter	-PF1PF2PF Help Add En		PF5 Save	-PF6	5 PF7 Up		9	-PF10		'F12 Menu

The screen contains a list of nodes defined in Entire Operations (the list is empty if no nodes are defined).

This section covers the following topics:

- Columns: Operating System Server (Node) Table
- Line Commands: Operating System Server (Node) Table

Columns: Operating System Server (Node) Table

The columns on the **Operating System Server (Node) Table screen** are explained in the following table.

Column	Description		
Cmd	Line command input field.		
	For possible line commands, see <i>Line Commands: Operating System Server (Node) Table</i> .		
Number	Entire System Server or UNIX node number.		
Short	Short node name.		
Node Name	User-defined (long) node name.		
AM	Access mode:		
	N Use Entire Net-Work for Mainframe nodes.		

Column	Description		
	B Use EntireX Broker for UNIX and Windows nodes.		
	Local node (invoked directly on the machine where Entire Operations is running; for Entire Operations on UNIX and Windows only).		
Op. Sys.	Operating system under which the node is running as received from the last SYSTEM-INFO call to Entire System Server or UNIX/Windows system information.		
Wait a. Error	Wait after error. Time in minutes to wait until the next node access after a temporary error.		
SSU	Submit Security User Type: see Fields: Monitor Defaults. If empty, the system-wide default is in effect for this node.		
VSE SysID	The SYSID defined for a z/VSE node is added to the job cards of jobs submitted on this node.		
Time Diff.	Time difference between local time and GMT in hours if the node is in a different time zone.		
Valid	Possible values:		
	yes Node can be used.		
	no Node has been disabled.		

Line Commands: Operating System Server (Node) Table

The following one-character line commands are available on the Operating System Server (Node) Table screen:

Command	Description
В	Applies to UNIX and Windows nodes only.
	Open the Node: Broker Service Definition window: see <i>EntireX Broker Service Definitions</i> .
D	Delete the selected node definition: see <i>Deleting a Node Definition</i> .
I	Open the Node Information window: see <i>Viewing Node Information</i> .
М	Open the Node Modification window: see <i>Displaying, Modifying and Adding a Node Definition</i> .
0	Open the Node: Other Definitions window: see <i>Other Definitions for a Node (Mainframe)</i> and <i>Other Definitions for a Node (UNIX and Windows</i>).
S	Open the Node: SAP Definitions window: see SAP Definitions (UNIX and Windows).

Administration Administration

Displaying, Modifying and Adding a Node Definition

> To display or modify a node definition

1 On the Operating System Server (Node) Table screen, enter the line command M next to the required node and press ENTER.

A **Node Modification** window similar to the example below opens:

You can modify the definition by replacing the current values. The input fields are described in *Fields: Node Definition*.

- 2 Press enter to save the modifications.
- Choose PF3 (End) to close the window and return to the **Operating System Server (Node) Table** screen.

> To add a node definition

1 Choose PF2 (Add) on the Operating System Server (Node) Table screen.

A **Node Definition** window opens. The input fields correspond to the fields contained in the **Node Modification window**. They are described in *Fields: Node Definition*.

2 Enter the required values.

When finished, press ENTER to save the node definition.

3 Choose PF3 (End) to return to the list of nodes.

The new node is added to the list.

This section covers the following topics:

■ Fields: Node Definition

Fields: Node Definition

The fields in the **Node Definition** or **Node Modification window** are explained in the following table:

Field	Description			
Node Number	Node number.			
	Valid range: 1 to 99900.			
Short Name	Mnemonic short name for the node.			
	The mnemonic short name can be used instead of the node number in various locations. This can be set in the Representation options of the user profile.			
Node Name	Unique, user-defined node name.			
	For nodes with access mode N: Enter a short description to help the user select an appropriate node for a network or job run.			
	For nodes with access mode B: Enter the name of a UNIX or Windows node (server) as it appears in System Automation Tools and EntireX Broker definitions in the SATSRV text object contained in the Natural SYSSATU library (see also the example of a node definition in the <i>Installation and Setup</i> documentation).			
	This field is case-sensitive.			
Access Mode	Possible values:			
	N Use Entire Net-Work for mainframe nodes.			
	B Use EntireX Broker.			
	Use the local node (invoked directly on the machine where Entire Operations is running; for Entire Operations on UNIX and Windows only).			
Time	Difference between local time and GMT in hours if the node is in a different time zone.			
Difference	Input format: xn, where:			
	x is a plus or minus sign (+ or -), and			
	n is any number from 0 to 12.			
Password	This setting is evaluated for nodes on z/OS only.			
Mode	Conversion mode to be used for password entries. Possible values:			
	U Passwords are converted to upper case (default for mainframe nodes).			

Description			
M Passwords in lower or mixed case are not converted to upper case (default for UNIX and Windows nodes).			
The password mode currently set is indicated in the Node Logon window (see the section <i>Logon Function</i> in the <i>User's Guide</i>).			
ID added to the job cards of jobs submitted on a z/VSE node. Valid range: 1 to 9.			
Time in minutes to wait until the next node access after a temporary error. Default: 5 minutes.			
Submit security user type can be set individually for each node. If this field is blank, the global default applies to this node: see the Submit Security User Type field described in <i>Monitor Defaults</i> for possible values of this field.			
Allow or disallow use of the node. Possible values: Y Allow use. N Disallow use.			

UNIX and Windows Node Definitions

UNIX and Windows nodes (i.e. on Entire System Server) must be defined in the following locations as well:

- SATSRV/SYSSATU (see the section *Definitions for Entire System Server* in the *Installation* documentation of System Automation Tools.)
- EntireX Broker parameters. You can omit these definitions for the Monitor node if this node is accessed in local mode.
- Entire System Server/UNIX or Windows initialization file *npr.ini* (see *Customize the NPR Server* in the section *Completing the Installation* in the *Entire System Server* documentation).



Note: For each combination of UNIX or Windows node and user ID, at least one successful login (by LOGON NODE) must have been made, before this combination can be used within the Entire Operations Monitor. These LOGON NODE commands must be repeated after a password modification on a UNIX or Windows system.

Viewing Node Information

The **Node Information** window displays general information on the node. In addition to the **Node Modification window**, it also provides product-specific information.

> To view additional information on a selected node

- 1 On the Operating System Server (Node) Table screen, enter the line command I next to the required node.
- 2 Press enter

A **Node Information** window similar to the example below opens:

The following fields (read-only) are provided in the window:

Field	Description
Node Number	Short name and number of the node.
Node Name	Long name of the node.
NPR Version	Version of the Entire System Server (NPR) installed at your site.
OS Release	Information (where available) on the operating system that hosts the server node at your site.

Other Definitions for a Node (Mainframe)

- > To add or modify other definitions for a mainframe node
- On the Operating System Server (Node) Table screen, enter the line command 0 next to the required mainframe node and press ENTER.

A **Node: Other Definitions** window similar to the example below opens:

```
Node: Other Definitions

Node Number ==> N0042 (42) MVS/ESA
Node Name ==> Loc1 Nd DQA V134

Default User ID ==> SAG____ Spool Class to be set ==> ___ |
E-Mail Code Page ==> __ |
E-Mail SYSOUT Class ==> _ |
E-Mail Sender ==> John.Test@softwareag.com__ |
E-Mail Reply-To ==> Martha.Test@softwareag.com_ |
PF1 Help PF3 End PF5 Save
```

The fields in the window are explained in the following section.

Fields: Node Definition (Mainframe)

Field	Meaning
Default User ID	User ID used by the Monitor for actions for which no specific user ID is available on the job or network level.
Spool Class to be set	Spool class to be set after job completion.
	You can enter any valid z/OS or z/VSE spool class to which the job spool class will be set after job completion.
	Usage precedence:
	1. Spool class defined for an Entire Operations job.
	2. Spool class defined here in this field (Spool Class to be set).
	3. Spool class defined in the Entire Operations defaults for z/OS or z/VSE.
	Note: If you enter a minus sign (-) here, the global default will not be applied.

Field	Meaning				
E-Mail Code Page	E-mail host code page (z/OS and BS2000).				
	The host code page to be used for e-mail sending.				
	Refer to the description of the field HOST-CODE-PAGE of the Entire System Server view SEND-EMAIL.				
E-Mail SYSOUT Class	(z/OS and older Entire System Server versions only.)				
	SYSOUT class to be used for e-mail messages, which are sent from z/OS via SMTP.				
E-Mail Sender	Default sender name for e-mails which are sent via this node.				
	The commercial at sign (@) can also be coded as (a).				
E-Mail Reply-To	Return address for e-mails which are sent via this node.				
	The commercial at sign (@) can also be coded as (a).				
	The name specified in E-Mail Sender is used by default.				

Other Definitions for a Node (UNIX and Windows)

- > To add or modify other definitions for a UNIX or Windows node
- On the Operating System Server (Node) Table screen, enter the line command S next to the required UNIX or Windows node and press ENTER.

A **Node: Other Definitions** window similar to the example below opens:

```
Node: Other Definitions

Node Number ==> N0409 (409) Win 10
Node Name ==> npr_pcsn02_win

Default User ID ==> SAGTEST_____
Default Group ==> EUR____
Print Command ==> type :f: >lpt3____
E-Mail Sender ==> John.Test@softwareag.com_____
E-Mail Reply-To ==> Martha.Test@softwareag.com_____
Message Command
blat ":f:" -s ":u:" -i ":s:" -t ":r:"_____
OPO Block Name ==> MFX____
Cygwin Dir. ==> c:/cygwin64_____
PF1 Help PF3 End PF5 Save
```

The fields contained in the window are explained in the following section.

Fields: Node Definition (UNIX and Windows)

Field	Meaning	
Default User ID	UNIX or Windows user ID used by the Monitor for actions which do not depend on a specific network or job.	
Default Group	UNIX: If this field is empty, the default group name as defined in /etc/passwd is used. Otherwise, this field contains the name displayed when you issue the UNIX command groups. Windows: The domain name used to log on to the server.	
	Note: You can replace symbols in network and	
	job definitions.	
Print Command	Print command (UNIX or Windows) for SYSOUT files on this node.	
Command	: f: will be replaced by the file name.	
	Example:	
	lp -dxxxx :f:	
Message	Message send command (Windows only).	
Command	This command is used to send a user message out of Entire Operations.	
	blat can be specified without parameters.	
	Replacements:	
	:s: sender name (optional)	
	■ :u: subject (title of the message, optional)	
	:r: recipient	
	: f: name of the file containing the message	
	Entire Operations automatically makes these replacements.	
	Examples:	
	blat	
	blat ":f:" -s ":u:" -i ":s:" -t ":r:"	
	(Parameters must be enclosed in quotes if they contain blanks.)	
E-Mail Sender	Default sender name for e-mails which are sent via this node.	
	The commercial at sign (@) can be coded as (a).	

Field	Meaning	
E-Mail	Return address for e-mails which are sent via this node.	
Reply-To	The commercial at sign (@) can also be coded as (a).	
	The name specified in E-Mail Sender is used by default.	
OPO Block	Applies to UNIX and Windows nodes only.	
Name	You must specify a block name in this field if you want to send files or SYSOUT from this node to Entire Output Management (NOM) by using the Open Print Option (OPO). The OPO Block Name determines the configuration block in the nomrptConf.xml file	
	to be used by OPO.	
Cygwin Dir.	Applies to Windows only.	
	Base directory of a Cygwin installation.	
	This field is only required if jobs of the type WCB (Windows Cygwin Bash) are used on a Windows node.	
	The directory name can contain a slash (/) instead of a backslash (\).	
	Example: c:/cygwin64	

EntireX Broker Service Definition (UNIX and Windows)

This function displays the EntireX Broker service definition if specified for the selected node.

- > To view the EntireX Broker service definition for a selected node
- On the Operating System Server (Node) Table screen, enter the line command B next to the required UNIX or Windows node and press ENTER.

A **Node: Broker Service Definition** window similar to the example below opens:

```
Node: Broker Service Definition

Node Number ==> N0401 (401) Windows7
Node Name ==> npr_pcsn01

Broker ID
BKR034
Server Class ==> NPR
Server Name ==> PCSN01
Service ==> npr_pcsn01
Locale String ==>
User ID ==> IBM1
Wait Time ==> 30S

PF1 Help PF3 End PF5 Save PF6 Refresh PF9 Del.
```

The fields (read-only) contain the current attributes of the EntireX Broker service definition specified for the node.

The EntireX Broker service definition for the node can only be modified in the SATSRV text object in the Natural SYSSATU system library on the server. If you change the service definition, use PF6 (see below) for an update.

The window provides the following special PF keys:

PF Key	Name	Function	
PF6		With this function you can force a re-read of the service definition from SATSRV/SYSSATU into Entire Operations.	
PF9		With this function you can delete all fields of an EntireX Broker service definition in Entire Operations at once. Note: This does not delete any entries in SATSRV/SYSSATU.	

SAP Definitions (UNIX and Windows)

Jobs of the type SAP require SAP-specific default values to set environment variables using jexa4S. All definitions are mandatory to run jobs of the type SAP.

- > To add or modify SAP definitions for a UNIX or Windows node
- On the **Operating System Server (Node) Table** screen, enter the line command S next to the required UNIX or Windows node and press ENTER.

A **Node: SAP Definitions** window similar to the example below opens:

```
!
! Node: SAP Definitions
!
! Node Number ==> N0517 (517) Linux
! Node Name ==> npr_pcsn
!
! JEXA4S_EXE ==> /opt/softwareag/nop/jexa4s/bin_x86_64/jexa4s______!
! JEXA4S ==> /opt/softwareag/nop/jexa4s/ini_____!
! RFC_INI ==> /opt/softwareag/nop/jexa4s/ini/saprfc.ini_____!
! PF1 Help PF3 End PF5 Save
!
```

The SAP-specific fields contained in the window are explained in the following section.

Fields: Node - SAP Definitions

Field	Description	
JEXA4S_EXE	Full path name of the jexa4s executable.	
	Example:	
	/opt/softwareag/nop/jexa4s/bin_x86_64/jexa4S	
JEXA4S	This path will be set as the JEXA4S environment variable prior to the invocation of jexa4s.	
	Example:	
	/opt/softwareag/nop/jexa4S/ini	
RFC_INI	This path will be set as the RFC_INI environment variable prior to the invocation of jexa4s.	
	Example:	
	/opt/softwareag/nop/jexa4S/ini/saprfc.ini	

Deleting a Node Definition

Before you delete a node, consider the impact on master or active objects using this node:

- When a node definition is deleted, this node is no longer available for new objects like network or job definitions.
- A deleted node is not invalidated in existing objects.
- A node status list can still show a deleted node as active.
- Various node access errors can occur if a deleted node is still referenced, for example, during network activation or job submission.

> To delete a node definition

- On the Operating System Server (Node) Table screen, enter the line command D next to the required node and press ENTER.
 - A confirmation window opens.
- 2 Enter the node number and press ENTER to confirm the deletion and close the window.

6 Entire Operations Defaults

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You can view and set Entire Operations defaults, for example, for the following:

```
Entire Operations system and log files;
Defaults for z/OS and z/VSE, BS2000, UNIX and Windows;
User definitions;
Display options (language, calendar, date);
User application settings and escape characters;
Retention periods and start/end dates for networks and jobs;
Logging, activation and APIs;
Scheduling, symbols, JCL and SYSOUT.
```

Default Setting (1) - Language, Format, User Application, Retention Periods, Escape Characters

- > To display the second screen of the Default Setting facility
- From the **System Services Menu**, select the **Entire Operations Defaults** option and press ENTER.

A **Default Setting (1)** screen similar to the example below appears:

```
**** Entire Operations ****
18-07-20
                                                                 10:16:01
                           Default Setting (1)
        Language Code ==> 1__ English Default Node ==> 12345 BATCH
         Date Format ==> I
     Calendar Display ==> 2
       OpSys Specials ==> _ (mark)
                                                   User ID Definition ==> A
 User Applic. in Menu ==> _ (mark)
                                              File Password Prompting ==> E
                                     Network Default Activation Escape ==> @
                                     Network Default Submission Escape ==> $
 Retention Periods
                                             Logon Screen obligatory ==> N
      Active Networks ==> ___2 Days
                                             Stack 'RETURN' on Logoff ==> Y
         Active Jobs ==> ___4 Days
    Active Conditions ==> ____7 Days
        Standard Log ==> ____7 Days
        Long-Term Log \Longrightarrow _180 Days
      Accounting Data ==> _180 Days
Command =>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
            End
                                                        OSpec
     Help
                                             Down
                            Save
```

Replace the current values as required and choose PF5 to save your new default settings.

The fields and functions available on the **Default Setting (1)** screen are explained in the following section:

- Fields: Default Setting (1)
- User Application in Main Menu Screen
- Special PF Keys: Default Setting (1)

Fields: Default Setting (1)

Field	Description		
Language Code	Determine the Entire Operations default language.		
	Possible values:		
	1 English		
	2	German	
Date Format	Date format in the heading section of Entire Operations screens.		
	See Date and Time	Formats in the User's Guide.	
Calendar	Determine how yo	our terminal displays calendars.	
Display	Possible values:		
	1	For terminals that support highlighting or colors.	
	2	For terminals that neither support highlighting nor colors.	
OpSys Specials	OpSys Specials Operating system specials.		
	Mark this field with any character and press ENTER to open a selection window for operating system defaults. See the following sections:		
	■ Defaults for z/OS and z/VSE		
	■ Defaults for BS2000		
	■ Defaults for UNIX and Windows		
User Applic. in Menu	User application in Entire Operations Main Menu.		
	Mark this field with any character and press ENTER to create a user application definition and open a User Application in Main Menu window. (see the relevant section).		
Default Node	Default Entire System Server node ID.		
	This node is used for all internal calls to Entire System Server if no other node number is specified explicitly.		
User ID Definition		First, the user must have logged on successfully to a node. Then, a JCL or submit user ID can be defined.	

Field	Description		
	А	All JCL or submit user IDs can be defined (default).	
	A logon is always required for:		
	■ User ID TS0S on BS2000 nodes;		
	■ User ID root on UNIX nodes.		
File Password			
Prompting	Possible values:		
	l — — — — — — — — — — — — — — — — — — —	is password-protected, always prompt for a file password before editing.	
	l	prompt for a password (default). Use the defined password, if necessary.	
Network Default	Global escape of the replaced at a	haracter used as the prefix for Natural code lines and symbols that are to ctivation time.	
Activation Escape	Default: Dollar sign (\$).		
	You can define specific escape characters for each operating system by marking OpSys Specials.		
	Note: Dynamic JCL might become invalid if this escape character is changed.		
Network Default	Global escape character used as the prefix for symbols that are to be replaced at submission time.		
Submission Escape	You can define specific escape characters for each operating system by marking OpSys Specials.		
	Default: Dollar sign (\$).		
	The character recommended for BS2000 is the semi-colon (;), for z/VSE the number sign ($\#$).		
	Note: Dynamic JCL might become invalid if this escape character is changed.		
Logon Screen	If Y is specified here, the Entire Operations logon screen is always presented.		
obligatory	This setting is recommended if an external security system like RACF is installed, since a password must be entered.		
Stack 'RETURN' on	If Y is specified here, an Entire Operations online session will be finished with the Natural command RETURN.		
Logoff	Otherwise, it is not finished. Only with RETURN can control be given back to another Natural application.		
	If \top is specified here, the Natural session will be terminated with the Entire Operations session.		
Retention Perio	ds:		

Field	Description
Active Networks	Maximum number of days Entire Operations keeps active networks in the active database. If the network is not completed within this time, a warning message is issued to a mailbox linked to the network.
	Default: 2 days.
	Note: Unfinished active jobs are deactivated after the Active Jobs retention period in any case.
	See also the Retention Period for Network option that can be specified for a single network as described in <i>Retention of Active Network Data</i> in the <i>User's Guide</i> .
Active Jobs	Maximum number of days Entire Operations keeps active jobs in the active database.
	This retention period also applies to data generated for import/export operations or reports.
	For active jobs, this period must be longer than the Active Networks retention period.
	Jobs will be deactivated after this this time, even if the active network is not completed.
	Default: 2 days.
	Note: The retention period for an active job is calculated backwards from the real start
	time of the job, if available. Otherwise, it is calculated backwards from the activation time of the job.
Active Conditions	Maximum number of days Entire Operations keeps active conditions in the active database. This retention period also applies to resource allocations with deallocation mode K (keep until explicit release).
	Default: 7 days.
	See also the Deactivation Mode for active Conditions option that can be used for a single network to keep active conditions as described in <i>Retention of Active Network Data</i> in the <i>User's Guide</i> .
Standard Log	Maximum number of days Entire Operations keeps standard log data and mailbox entries (information messages).
	Default: 7 days.
Long-Term Log Maximum number of days Entire Operations keeps long-term log data and m (waiting for condition, symbol prompting).	
	Long-term log data are network and job activation times with run numbers.
	Default: 180 days.
Accounting	Maximum number of days Entire Operations keeps job and monitor accounting data.
Data	Default: 180 days.

User Application in Main Menu Screen

This function allows you to access a user-defined Natural application from the Entire Operations **Main Menu**. This is indicated in the example of a **Main Menu** shown in the *User's Guide*.

If you mark the **User Application in Menu** field on the **Default Setting (1)** screen and press ENTER, a screen similar to the following appears:

```
12.06.18

***** Entire Operations *****

User Application in Main Menu

Application ==> SYSMAIN_

Menu Text ==> Natural SYSMAIN Utility_____

The application must be callable from the Entire Operations environment.
By default, the program MENU will be invoked.
The application must return to Entire Operations with the Natural command RETURN.
Example: RELEASE STACK; STACK TOP COMMAND 'RETURN'

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help End Save
```

Fields: User Application in Main Menu

Field	Meaning
Application	Enter the name of the Natural application.
	It must be accessible from the Entire Operations environment and a program MENU must exist.
	The application must be defined in Natural Security and must pass back control with the Natural RETURN command.
	The text you enter here will appear on the Entire Operations Main Menu beneath the heading Applications on the right-hand side of the screen.

Special PF Keys: Default Setting (1)

PF Key	Name	Function
PF10	OSpec	Open a selection window for operation systems. See also <i>Accessing Operating System Specific</i>
		Default Settings.

Default Setting (2) - Schedule, Start Time, Symbols, JCL

- To display the second screen of the Default Setting facility
- Choose PF8 (Down) on the **Default Setting** (1) screen.

A **Default Setting (2)** screen similar to the example below appears:

```
**** Entire Operations *****
                                                                   09:26:31
10.10.18
                            Default Setting (2)
Extraction of Schedules ==> 3_ Days before Activation
Activation before Earliest Start ==> 60_ min.
Default Latest Start after Earliest Start
                                               ==> +24 \text{ hours}
Default Deadline after Earliest Start
                                               ==> +48 \text{ hours}
End of previous Production Date
                                               ==>
Subnetwork Activation Mode
                                               ==> A
Run Number Limit
                                               ==> 99999
Rewrite prompted Symbols to Master Symbol Table ==> N (Y/N)
Default for 'Use Time from Schedule'
                                             ==> N (Y/N)
Generate Header in submitted JCL
                                               ==> Y (Y/N)
Log Symbol Values in submitted JCL
                                               ==> Y (Y/N)
Log the changes made to an active/pregen. JCL \implies Y (Y/N)
Symbol Prompting during JCL Regeneration \Longrightarrow Y (Y/N)
Automatic cleanup for new day / monitor start \Longrightarrow Y (Y/N) at \Longrightarrow 01:00:00
Symbol table obligatory
                                               ==> N
 Keep predefined job time frames
                                               ==> N (Y/N)
Command =>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF10--PF11--PF12---
     Help
                                        Up
                End
                             Save
                                              Down
                                                                      Menu
```

Replace the current values as required and choose PF5 to save your new default settings.

The fields available on the **Default Setting (2)** screen are explained in the following section.

Fields: Default Setting (2)

Field	Meaning		
Extraction of Schedules	The extraction can be done several days in advance, for example, to permit earlier symbol prompting. Enter the number of days.		
	Default: 1 day (= current day).		
Activation before Earliest Start	Creates an executable copy of the job network definition. This option allows you to activate the network before the earliest time the network is actually started. Default: 0 minutes.		
Default latest		ied at the job level	
Start after Earliest Start	Applies if no explicit latest start time was specified at the job level. The time (in hours) specified here is added to the (computed) earliest start time.		
	Default: 24 hours.		
Default Deadline after	Applies if no explicit deadline time is specified at the job level.		
Earliest Start	The time (in hours) specified here is added to the (computed) earliest start time.		
	Default: 48 hours.		
End of previous Production Date	Time at which the previous production day ends logically. The input format is HH:II:SS, the default time is 00:00:00 (midnight). This time influences the following: Condition references: The reference PDA for input condition references the production date, not the current calendar date. Symbol replacement: The predefined symbol P-DATE provides the production date in		
	the format YYYYMMDD. See also Predefined Symbols and Date and Time Formats in the User's Guide.		
Subnetwork	Possible values:		
Activation Mode	A (or blank)	Activate the subnetwork at activation time of the caller (default).	
	S	Activate the subnetwork at submission time of the caller.	
	For more information, see Time of Activation of a	ime of Activation of a Subnetwork in the User's Guide.	
Run Number Limit	Maximum run number which can be assigned to a network or job activation.		
Possible values: 0 to 99999.			
	If 0 is specified, the limit is 99999 (default).		

Field	Meaning		
Rewrite	Possible values:		
prompted Symbols to Master Symbol Table	Y	Update prompted symbols in the master symbol table, in addition to the currently active symbol table.	
		This keeps the last prompted value for the next prompting.	
	N	Update prompted symbols only in the currently active symbol table (default).	
Default for 'Use Time from	Determines the default setting for the start time network or job.	to be used when manually activating a	
Schedule'	This option corresponds to the Use Time from sor Job Activation window (see <i>Manual Activation</i>)	•	
(for manual activation)	Possible values:		
,	Y	Use the time defined in the schedule used by the network or job.	
	N	Use the time entered in the Network Activation or Job Activation window (default).	
		Possible network or job schedule definitions are ignored.	
Generate	Possible values:		
Header in submitted JCL	Υ	Generate a header (default).	
submitted JCL	N	Do not generate a header.	
Log Symbol	Possible values:		
Values in submitted JCL	Υ	Log symbol values (default).	
submitted JCL	N	Do not log symbol values.	
Log the	Possible values:		
changes made to an active/pregen.	Y	Activate logging of active or pregenerated JCL modifications.	
JCL 1 3		Any JCL changes to the active or pregenerated JCL are then written to the extended log (described in the <i>User's Guide</i>).	
		If this option is set to Y, you may have to increase the editor buffer pool space.	
	N	Deactivate logging of JCL modifications (default).	

Field	Meaning		
Symbol	Possible values:		
Prompting during JCL Regeneration	N	No symbol prompting is performed during JCL regeneration (default).	
	Y	Symbols are prompted again during JCL regeneration.	
Automatic	Possible values:		
cleanup for new day /	N	No automatic cleanup of the active database and log data is performed.	
monitor start	Y	Automatic cleanup of the active database and log data is performed.	
		The interval between two subsequent automatic cleanups is at least one hour (default).	
	D	Automatic cleanup will only be performed in no cleanup (automatic or manual) was already performed on the same day.	
at	Enter the time to perform daily automatic cleanup.		
	Note: The cleanup must be triggered at least once a day to avoid an overflow of the active database.		
Symbol table	Check whether a symbol table definition exi	sts when:	
obligatory			
	Activating a network;Adding a network;		
	■ Modifying a network.		
	The check is not performed for unchanged network definitions.		
	Possible values:	N 1 1 1 1 0 00 00 1	
	N (or blank)	No symbol table definition required (default).	
	А	Symbol table required for all networks.	
	S	Symbol table required for subnetworks only.	
	If you want to check the existence of symbol table definitions globally, use the batch utility CHNWST-P described in the section <i>Entire Operations Utilities</i> in the <i>User's Guide</i> .		
Keep	Possible values:		
predefined job time	N	Use the calling job's time frame for subnetwork jobs (default).	
frames	Υ	Keep predefined job time frames.	

Default Setting (3) - Logging, Accounting, APIs, Symbol Table, Encoding

- > To display the third screen of the Default Setting facility
- Choose PF8 (Down) on the **Default Setting (2)** screen.

A **Default Setting (3)** screen similar to the example below appears:

```
03.01.14
                      **** Entire Operations ****
                                                                 14:04:59
                     Default Setting (3)
Logging and Accounting Settings
  Log Logon/Logoff to nodes
                                             ==> N (Y/N)
  Log API usage
                                             ==> N (Y/N)
  Collect z/OS step accounting data
                                              ==> Y (Y/N)
Deactivation Settings
  Confirm activation cancelling
                                           ==> N (Y/N)
  Jobs to be deactivated at once
                                             ==> 2000_
NOM API Settings
  NOM API retry limit
                                              ==> 3
  Pass empty files to NOM
                                             ==> N (Y/N)
Submit symbol/function recalculation at resubmit
                                                  ==> Y (Y/N)
Symbol table activation mode
                                                   ==> X
Encoding
                                                   ==> T___
Max. number of versions for networks or symbol tables ==> ___
Command => ____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help End Save Up
                                                                    Menu
```

Replace the current values as required and choose PF5 to save your new default settings.

The fields available on the **Default Setting (3)** screen are explained in the following section.

Fields: Default Setting (3)

Field	Meaning	
Log Logon/Logoff	Possible values:	
to nodes	Υ	All logons and logoffs to and from Entire System Server nodes (by users and Monitor tasks) are logged.
	Е	Extended logging in case of logon errors.
		See also <i>Extended Log</i> in the <i>User's Guide</i> .
	N	Normal logging (default).
	Be aware of the overhead i	n the log file.
Log API usage	Possible values:	
	Υ	Log some API executions.
		The API return code is contained.
		Be aware of the overhead in the log file.
	N	API executions are not logged (default).
Collect z/OS step accounting data	Y	Accounting data for steps is collected additionally for z/OS jobs.
		Be aware of the overhead in the accounting data file.
	N	Accounting data for steps is not collected (default).
Confirm activation	Υ	A confirmation window is used if future activations are cancelled (default).
cancelling		See also <i>Cancelling an Active Job</i> in the section <i>Active Job Networks</i> in the <i>User's Guide</i> .
	N	No confirmation window is used.
Jobs to be	Maximum number of activ	re jobs to be deactivated in one Monitor cycle.
deactivated at once	Default: 50.	
NOM API retry	Maximum number of atter	npts for passing a file to Entire Output Management (NOM).
limit	Default: 1000.	
Pass empty files	Possible values:	
to NOM	Y	Empty files will be passed to Entire Output Management (default).
	N	Empty files will not be passed to Entire Output Management.
	Note: A log message will be written in any case.	
Submit	Determine the handling of submit symbol and function values during job resubmit with	
symbol/function	submission symbol replace	ement.
	Possible values:	

Field	Meaning	
recalculation at resubmit	Υ	Active submit symbols and functions will be deleted and activated (calculated) anew (default).
	N	Resubmission will be performed with the same submit symbol and function values.
Symbol table	Possible values:	
activation mode	Х	After schedule extraction.
		Symbol prompting can be used for scheduled networks (default).
	A	During the network activation.
		No symbol prompting is possible.
Encoding	Possible values (can be cor	nbined):
	Т	Applies to JCL on UNIX and Windows only.
		Use trigraphs in active JCL and in JCL and SYSOUT logging.
		For information on trigraph encoding, see the relevant section in the <i>User's Guide</i> .
	8	Applies to JCL on UNIX only.
		If the file is UTF-8 encoded, convert UTF-8 characters to HTML format in the active JCL. In this case, you must not use the ampersand (&) as the submission escape character.
	empty field	No encoding (default).
Max. number of	Maximum number of versions that might be defined for a network or symbol table.	
versions for networks or This limit is checked during addition or cloning of versions.		g addition or cloning of versions.
symbol tables	Possible values: 0 to 999999	99.
	If 0 is specified, the limit is	99999 (default) for no restriction.

Default Setting (4) - Run Number for Activation, Symbol Function Results, SYSOUT

> To display the fourth screen of the Default Setting facility

■ Choose PF8 (Down) on the **Default Setting** (3) screen.

A **Default Setting (4)** screen similar to the example below appears:

```
**** Entire Operations ****
18.10.18
                                                                13:30:53
                           Default Setting (4)
Activation Settings
  Activation: Allow run number setting
                                                ==> Y (Y/N)
 Symbol Functions
  Write results of MM and MV to active symbol table \Longrightarrow Y (Y/N)
SYSOUT
  SYSOUT Line Limit
                                                  ==> 1000____
  Interrupt End-of-Job Checking on BS2000
                                                  ==> B
    if limit reached
  Copy SYSOUT File before passing it to NOM \Longrightarrow Y (Y/N)
Command => ___
Enter-PF1---PF2---PF3---PF5---PF6---PF7---PF8---PF10--PF11--PF12---
     Help End Save Up
                                                                   Menu
```

Replace the current values as required and choose PF5 to save your new default settings.

The fields available on the **Default Setting (4)** screen are explained in the following section.

Fields: Default Setting (4)

Field	Meaning	
Activation:	Possible values:	
Allow run number setting	Υ	Allows users to request their preferred run number during network or job activation. See also the field Preferred Run Number described in the sections <i>Fields: Network Activation</i> (<i>Network Maintenance</i>) and <i>Fields: Job Activation</i> in the <i>User's Guide</i> .
	N	Users are not allowed to request a run number (default).
Write results of MM and MV to active symbol table	Y	Values returned for the symbol functions MM and MV are written to the active symbol table. Subsequent symbol function executions with the same parameters will use these values. See also in the section <i>Functions for Symbol Replacement</i> in the <i>User's Guide</i> .
	N	Values returned for the symbol functions MM and MV are not written to the active symbol table (default).

Field	Meaning	
SYSOUT Line	0 -	Determine the line limit for SYSOUT.
Limit	9999999999999	Default: 0 (no limit).
		If the SYSOUT of a job exceeds the line limit set, the lines are truncated after the line number specified in this field. This affects the following SYSOUT functions:
		■ Extended SYSOUT logging is truncated.
		SYSOUT browsing of a file or spool data set is truncated and ends with a warning message similar to the following:
		==== EOR4123 - SYSOUT line limit 1000 reached =====
		SYSOUT is truncated if copied from UNIX or Windows to the mainframe (for example, BS2000).
		■ SYSOUT is truncated if passed from UNIX or Windows to Entire Output Management (NOM), depending on the Entire System Server version installed at your site (see the relevant announcement in the current Entire Operations <i>Release Notes</i>).
		■ Log messages are written for the above cases.
		z/OS, JES2: The value is divided by 1000 and inserted with a /*LINES command. If the division result is 0, the value is set to 1.
Interrupt	В	Applies to BS2000 only.
End-of-Job Checking on		Interrupt the job if the SYSOUT line limit is reached.
BS2000 if limit reached		If a SYSOUT file has reached or exceeded the given SYSOUT Line Limit , the job will be treated as interrupted during End-of-Job checking and set to not ok.
	blank	The job is not interrupted if the SYSOUT line limit is reached (default).
Copy SYSOUT File before	Υ	Applies to BS2000 only.
passing it to NOM		Copy the SYSOUT file physically and pass the copy to the Entire Output Management API (default).
		This doubles the necessary disk storage for SYSOUT files created by Entire Operations.
	N	Pass the original SYSOUT file to the Entire Output Management API.
		Note: If the copying of SYSOUT files for Entire Output Management is
		switched off, SYSOUT files may get lost or overwritten, for example, if the creating job is resubmitted or restarted for recovery.

Accessing Operating System Specific Default Settings

> To define operating system specific defaults

Select **OpSys Specials** on the **Default Setting (1)** screen by marking it with any character and press ENTER.

Or:

Choose PF10 (OSpec) on the **Default Setting (1)** screen.

A selection window similar to the example below opens:

2 Select the appropriate operating system and press ENTER.

A screen appears with parameters specific to the operating system selected.

The following sections explain how to continue:

- If you selected z/OS or z/VSE, see *Defaults for z/OS and z/VSE*.
- If you selected BS2000, see *Defaults for BS2000*.
- If you selected UNIX or Windows, see *Defaults for UNIX and Windows*.

Defaults for BS2000

This section provides instructions for setting BS2000 defaults.

You can set the defaults for BS2000 on two screens:

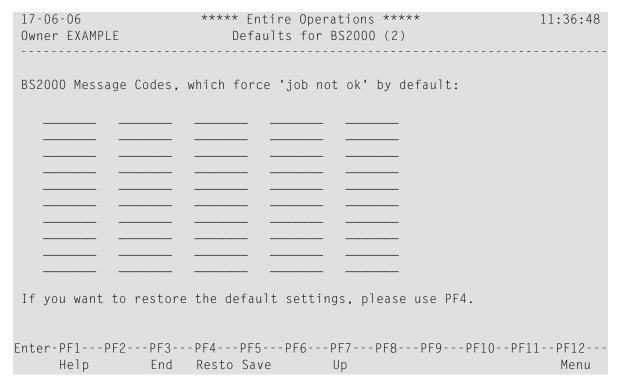
- **Defaults for BS2000 (1)** for general settings and
- **Defaults for BS2000 (2)** for BS2000 message codes that force a job not OK by default.
- > To set defaults for BS2000
- 1 Select **BS2000** from the selection window on the **Default Setting (1)** screen.

A **Defaults for BS2000 (1)** screen similar to the example below appears:

```
***** Entire Operations *****
17-06-06
                                                                    11:31:07
Owner EXAMPLE
                            Defaults for BS2000 (1)
End-of-Job Checking
  Highest Severity Code accepted as ok ==> 0000
SYSOUT Handling
  These values will be used as defaults for new job definitions:
  Make the SYSOUT Collection File shareable \Longrightarrow N (Y/N)
  Append the SYSLST File(s) to the SYSOUT File \Longrightarrow N (Y/N)
Monitor Job Variables
  Remove internal Monitor Job Variables after End-of-Job Handling ==> Y (Y/N)
Escapes: Activation ==> @ Submission ==> "
Note: Modifications become effective at the next monitor startup.
Command =>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help
                 End
                             Save
                                               Down
```

This is the first BS2000-specific screen in a series of two. The fields available on this screen are explained in *Fields: Defaults for BS2000 (1)*.

2 PF8 (Down) to open the second screen **Defaults for BS2000 (2)** containing a table for BS2000-specific message codes:



For more information, see BS2000 Default Message Codes - Defaults for BS2000 (2).

This section covers the following topics:

- Fields: Defaults for BS2000 (1)
- BS2000 Default Message Codes Defaults for BS2000 (2)

Fields: Defaults for BS2000 (1)

BS2000-specific fields on the **Defaults for BS2000 (1) screen** are explained in the following table.



Note: New default settings become effective after the next Monitor startup and are then used as defaults for new job definitions.

Field	Meaning	
End-of-Job Checking:		
Highest Severity Code accepted as ok	This value is the maximum allowed severity code for messages matching the default message code table. If a message is defined without a severity code, a match always means job not 0K.	
SYSOUT Handling:		

Field	Meaning
Make the SYSOUT Collection File shareable	Entire Operations creates its own SYSOUT Collection File for each BS2000 job running under control of Entire Operations.
	Enter Y if the Entire Operations Monitor should make these files shareable; enter N if not.
Append the SYSLST File(s) to the SYSOUT File	Enter Y if the SYSLST files created by a job should be appended to the Entire Operations SYSOUT Collection File; enter N if not.
Monitor Job Variables:	
Remove internal Monitor Job Variables	Enter Y to remove internal Monitor job variables immediately after End-of-Job checking. This creates fewer catalog entries.
	Enter N to remove variables during standard job deactivation.
	Note: This setting affects only Monitor job variables which were
	internally created by the Entire Operations Monitor.
Escapes:	
Activation	Activation escape character.
	This escape character is used as the prefix for Natural code lines and symbols to be replaced at activation time.
	Note: Existing dynamic JCL might become invalid after changing this escape character.
Submission	Submission escape character.
	This escape character is used as the prefix for symbols to be replaced at submission time.
	Note: Existing dynamic JCL might become invalid after changing this escape character.

BS2000 Default Message Codes - Defaults for BS2000 (2)

The following BS2000 message codes can be contained in the message code table on the **Defaults for BS2000 (2) screen**:

Message Code	Message Text	
BLS0520	Access error on program library.	
	PLAM-AMCB error code '(&00)' and system error code '(&01)'.	
	In system mode /HELP-MSG PLA (&00).	
CMD0005	Operation name in input string not recognizable or missing.	
CMD0186	CMD0186 OPERATION NAME '(&00)' UNKNOWN.	

Message Code	Message Text
CMD0205	Error in preceding command or program and procedure step termination: commands will be ignored until /SET-JOB-STEP or /LOGOFF or /EXIT-JOB is recognized.
DMS05A9	Second file name in command for COPY invalid or does not exist. Correct command.
DMS0936	(Message not defined.)
EXC044F	Warning: PUBSPACE limit exceeded for user ID '(&00)' on PUBSET '(&01)'. Erase files no longer required.
EXC0733	Unrecoverable termination error: task with TSN '(&00)' pended. Continue system run and take dump after shutdown.
EXC0734	(Message not defined.)
EXC0735	(Message not defined.)
EXC0736	Abnormal task termination. Error code '(&00)': / Help-MSG (&00).
EXC0737	(Message not defined.)
EXC0738	(Message not defined.)
EXC0772	(Message not defined.)
IDA0N45	Dump desired?
	Reply (Y =user/area dump); Y, System = system dump; N = no).
IDA0N47	Dump prohibited by /MODIFY-TEST-OPTIONS command.
IDA0N48	Task/system settings prohibit dump.
IDA0N51	Program interrupt at location '(&00)'.
IDA0N56	Current system dump suppressed (duplicate).
JVS04A1	Syntax error in JV command. Correct command.
NRTT201	NRTT201 TASK TERMINATION DUE TO /(&00) COMMAND
	The task termination was caused by a /CANCEL-JOB resp. /CANCEL or a /SHUTDOWN command.
SSM2052	Procedure file '(&00)' cannot be opened.
	DMS error code '(&01)'. Command terminated.
	DMS error: /HELP-MSG-INFORMATION DMS(&01).

The following applies when using and checking message codes:

- If one of the BS2000 message codes listed in the table above appears in any BS2000 job SYSOUT, a job is treated as not ok without any special definition at the job level.
- A global message and/or an event store notification is sent if the option **Job not ok, or execution error** is marked with Y on the **Global Messages for Events** screen.
- The BS2000 message codes listed in the table above are in effect after the installation of Entire Operations. You can restore the default set of message codes supplied with Entire Operations at any time by using PF4 (Resto).

- The message code table can be completely empty. None of the mentioned BS2000 message codes would be checked by default in this case.
- Changes to message codes are propagated to a running Monitor immediately.

Consider that faulty jobs may no longer be set to the status not look when the message code table is modified.

Defaults for z/OS and z/VSE

This section provides instructions for setting z/OS and z/VSE defaults.

- To set defaults for z/OS or z/VSE
- Select z/OS or z/VSE from the selection window on the Default Setting (1) screen.

For z/OS, a **Defaults for z/OS** screen similar to the example below appears:

```
**** Entire Operations *****
23/08/16
                                                                   15:51:44
Owner EXAMPLE
                           Defaults for z/0S
 End-of-Job Checking
  These values apply, if nothing is specified for the End-of-Job Checking:
  Highest Condition Code accepted as ok ==> C 0009
  = highest Severity Code (see field help)
  Highest User Code accepted as ok =→> U
  IEF201I 'Terminated because of condition codes' accepted as ok ==> N
 End-of-Job Actions
  Spool Class to be set after Job Completion ==> _
 Job Card
  These values will be inserted into the job card, if missing:
  MSGCLASS ==> MSGLEVEL ==>
Escapes: Activation ==> @ Submission ==> $
Note: Modifications become effective at the next monitor startup.
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF8---PF9---PF10--PF11--PF12---
     Help
                 End
                            Save
                                                                     Menu
```

For z/VSE, a **Defaults for z/VSE** screen similar to the example below appears:

```
24/08/16
                     **** Entire Operations ****
                                                         12:11:06
Owner EXAMPLE
                           Defaults for z/VSE
End-of-Job Checking
  These values apply, if nothing is specified for the End-of-Job Checking:
  Highest Condition Code accepted as ok ==> C 0009
  = highest Severity Code (see field help)
  Highest User Code accepted as ok ==> U ____
End-of-Job Actions
  Spool Class to be set after Job Completion ==> ___
JCL Location VSE
  Default Member Type ==> J_____
Escapes: Activation ==> @ Submission ==> #
Note: Modifications become effective at the next monitor startup.
Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help End Save
```

The fields available on the screens are explained in *Fields: Defaults for z/OS and z/VSE*.

Fields: Defaults for z/OS and z/VSE

The fields available for z/OS-specific and z/VSE-specific default settings on the **Defaults for z/OS** and **Defaults for z/VSE** screen are explained in the following table.



Note: New default settings become effective after the next Monitor startup and are then used as defaults for new job definitions.

Field	Meaning
End-of-Job Checking:	
The values specified with the f has been made at the job level:	ollowing three fields are used for checking completed jobs if no definition
Highest Condition Code (= highest Severity Code)	The value entered here is used for default checks of all step results for which no dedicated check was defined. If such a step result is higher than the value defined here, the job is treated as not ok.
	This value is the maximum allowed severity code for messages matching the Global Message Code Table. If a message is defined there without a severity code, a match always means job not ok.

Field	Meaning
Highest User Code accepted as ok	Corresponds to Highest Condition Code but checks for user-defined codes only.
IEF201I 'Terminated because	Applies to z/OS only.
of condition codes' accepted as ok	If Y is entered here, the occurrence of the message
	EF201I JOB TERMINATED BECAUSE OF CONDITION CODES
	does not cause the job to be set to not ok automatically.
	All other implicit or explicit End-of-Job checks are not affected by this setting.
	This is a system-wide setting. For more information, see the section <i>Defining</i> and <i>Managing End-of-Job (EOJ) Checking and Actions</i> in the <i>User's Guide</i> .
	Default: N.
End-of-Job Actions:	
Spool Class to be set after Job Completion	You can specify whether the spool class of a job is to be modified after completion. This applies to all jobs.
	Note:
	1. Node-specific definitions override this default.
	2. Job-specific definitions override all others.
	A valid spool class indicates Entire Output Management where to find all information required to process job SYSOUT passed from Entire Operations.
	If you leave this field blank, the job output class remains unchanged.
Job Card:	
MSGCLASS	Applies to z/OS only.
MSGLEVEL	You can complete or modify the job card for any job by adding values for MSGCLASS and MSGLEVEL here. The values specified here are inserted if not already in the job card.
JCL Location VSE:	
Default Member Type	Applies to z/VSE only.
	The default member type is inserted into JCL definitions if nothing else is specified.
Escapes:	
Activation	Activation escape character.
	This escape character is used as the prefix for Natural code lines and symbols to be replaced at activation time.

Field	Meaning
	Note: Existing dynamic JCL might become invalid after changing this escape
	character.
Submission	Submission escape character.
	This escape character is used as the prefix for symbols to be replaced at submission time.
	Note: Existing dynamic JCL might become invalid after changing this escape character.

Defaults for UNIX and Windows

This section provides instructions for setting UNIX and Windows defaults.

Note: Specials for UNIX and Windows nodes can be defined on the Operating System Server (Node) Table screen; see also Special Definitions for a Node (UNIX and Windows).

> To set defaults for UNIX or Windows

Select **UNIX** from the **selection window** on the **Default Setting** (1) **screen**.

Or:

Select Windows from the selection window on the Default Setting (1) screen.

A **Defaults for UNIX** or **Defaults for Windows** screen (respectively) similar to the example below appears:

The fields available on the screen are explained in *Fields: Defaults for UNIX and Windows*.

Fields: Defaults for UNIX and Windows

The fields on the **Defaults for UNIX** and **Defaults for Windows** screen are explained in the following table.



Note: New default settings become effective after the next Monitor startup and are then used as defaults for new job definitions.

Field	Meaning					
End-of-Job Checking:						
Highest Exit Code accepted as ok	The value entered here is the maximum exit code which is accepted as ok.					
Escapes:						
Activation	Activation escape character.					
	This escape character is used as the prefix for Natural code lines and symbols to be replaced at activation time.					
	Note: Existing dynamic JCL might become invalid after changing this escape					
	character.					

Field	Meaning
Submission	Submission escape character.
	This escape character is used as the prefix for symbols to be replaced at submission time.
	Note: Existing dynamic JCL might become invalid after changing this escape
	character.

Monitor Defaults

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Setting Defaults for the Monitor

You can define defaults for the Entire Operations Monitor. The defaults must be set before the first start of the Monitor.

> To set defaults for the Monitor

From the System Services Menu, select the Monitor Defaults option and press ENTER.

A **Monitor Defaults** screen similar to the example below appears with a table of all current defaults:

```
11.02.19
                 **** Entire Operations ****
                                             14:53:56
                        Monitor Defaults
Owner EXAMPLE
 NOP Monitor Files DBID FNR
                              Monitor Node ==> 123__ N0123
   NOP System File ==> 9 18
Log Monitor Activity ==> N
          FNAT ==> 9 107
FUSER ==> 9 124
FSEC ==> 9 125
     Monitor JCL ==> _____
   OS Spool Class ==> X_____ Submit Security User Type ==> V
Command => ____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                      Save
    Help End
                                         Tasks Susp
                                                       Menu
```

The fields and special PF keys on the screen are explained in the *Fields: Monitor Defaults* and *Special PF Keys: Monitor Defaults*.

Fields: Monitor Defaults

The following table explains the fields on the Monitor Defaults screen.

Field	Description						
NOP	Read-only information.						
Monitor Files	Entire Operations files currently used by the Monitor.						
	The files are explained in <i>Entire Operations Files</i> .						
DBID	Read-only information.						
	Database ID (DBID) of an Entire Operations file currently used by the Monitor.						
FNR	Read-only information.						
	File number (FNR) of an Entire Operations file currently used by the Monitor.						
Monitor	Node under which the Entire Operations Monitor runs.						
Node	The node can be the same as the default Entire System Server node.						
Monitor	User ID used for Monitor actions which are not dependent on any jobs.						
User ID	If the field is empty, the default will be inserted.						
	Default: Ennnnn01.						
	where <i>nnnnn</i> is the Monitor node.						
	This field is not used if the Monitor node is a UNIX or Windows node.						
	Note: On z/OS and BS2000 systems, this user ID must be a defined system user ID.						
Monitor	Prefix used for the internal generation of Monitor subtask names.						
Task Prefix	Entire Operations Monitor subtask names use the following syntax:						
	EOR{task-prefix}{task-number}						
	where $task-prefix$ is the character string entered in this field and $task-number$ the number of a defined task.						
	Example:						
	If the task prefix is E01 and the task number is 2, the task name will be E0RE0102.						
	Default for the task prefix: EOR.						
	For further information, see also <i>Task Names</i> in the section <i>Entire Operations Monitor</i> .						
	Note:						
	1. If you want to run several Entire Operations Monitors under one Entire System Server, you must define a different Monitor task prefix for each Monitor.						

Field	Description							
	2. Monitor tasks of the same Monitor use the same prefix, but different task numbers.							
	3. For z/OS, the Entire System Server event names also use these subtask names.							
	z/OS Event Name Syntax:							
	EORpppnn							
	where: ppp is the subtask prefix. The default is EOR. nn is the task number within the Monitor.							
	Examples:							
	Monitor 1 has an empty task prefix. The ever	nts are then EOREORO1 through EOREOR99.						
	Monitor 2 has the task prefix A01. The event	s are then EORA0101 through EORA0199.						
Global	Wait time (in seconds) between two Monitor of	cycles. This parameter sets the Monitor frequency.						
Monitor Wait Time	Valid values: 1 to 99999 seconds.							
	Default: 30.							
	(The Monitor waits 30 seconds until it begin	s the next cycle.)						
	Note:							
	This value is the default for all Monitor tasks. An individual wait time can be defined for each task. These individual wait times can also be modified while the Monitor tasks are running, and for the current Monitor session only. For details, see <i>Fields: Monitor Task Profile</i> .							
Log Monitor	Write information about Monitor activities, itask, to the log periodically.	in particular about the activities of each Monitor						
Activity	Note: This option increases the amount of lo	ng data						
	_	og unu.						
	Possible values:	and the section of the section						
		Log additional information. Do not log additional information (default).						
Monitor	For UNIX only.	of not log accumonal information (actuall).						
JCL	Full path name of the shell script to be used for starting the Monitor.							
	llation procedure should be used for this purpose.							
	File selection by wildcard is possible.							
OS Spool	For z/OS only.							
Class	Spool class to be used by the Monitor for all background printouts.							

Field	Description						
Submit Security User Type	ity This is the second of the						
User Type							
	Possible values:						
	М	User ID of the Monitor (default).					
		See also the field Monitor User ID .					
	0	Network owner.					
	U	Submit user ID.					
		User ID of the user who defined the job or who made the last modification (even in the active queue).					
		See also the sections <i>Operating System User IDs</i> and <i>Default User ID Determination</i> .					
	V	Similar to U (submit user ID), but DUM jobs are assigned the user ID of the Monitor in the Entire Operations log.					
	А	Submit user ID must be the same as for the network owner.					
	В	Submit user ID must be the same as for the last modifying user.					
	Note: With M, no specific security profiles are possible for the submitted jobs. This setting is						
	a global default. You may define the submit security user type individually for any node, if necessary.						

Special PF Keys: Monitor Defaults

PF Key	Name	Function
PF9	Tasks	Define a Monitor task profile.
PF10	Susp	Define filters to suspend Entire Operations functions.

Using Monitor Tasks

A Monitor task defines a function to be performed by the Entire Operations Monitor.



Note: If you want to run the Entire Operations Monitor in several tasks on z/OS and BS2000 systems, you must start the Monitor as a subtask.

You can divide the Monitor into several tasks in order to:

- Perform some Monitor actions in parallel;
- Execute Natural jobs (NAT-type jobs) asynchronously.

If you want to run the Entire Operations Monitor in several tasks, you must define how the Monitor functions are to be distributed on the different Monitor tasks.

Monitor tasks are defined in the Monitor Task Profile.

This section covers the following topics:

- Execution of Monitor Tasks using Entire System Server
- Dynamic Task Profile Reconfiguration

Execution of Monitor Tasks using Entire System Server

Monitor tasks must be enabled in the Entire System Server as a subtask in the address space (z/OS, z/VSE) or as a pseudo subtask, that is, standalone task (BS2000).

The execution of Monitor (sub)tasks is internally controlled by the Entire System Server view NATURAL-SUB-TASK.

Before you specify several Monitor tasks or allow several Natural tasks, you should check the value of NATNUMSUB in the Entire System Server startup parameters.

If not enough (sub)tasks are allowed for the Entire System Server, a message will be issued by Entire Operations after an attempted task start, and the task activity is taken over by the main task (Task 1). This can decrease Monitor performance.

In z/OS and z/VSE, subtasks run under the Monitor Entire System Server node.

In BS2000, one batch job is run for each Monitor task.

In UNIX, each Monitor task uses a separate process.

Each task has an internal control record in the database. To display the current status of the tasks, choose PF9 (Tasks) in the Entire Operations Monitor window.

Note: All tasks use the same database files.

For more information, see *Status of the Entire Operations Monitor*.

Dynamic Task Profile Reconfiguration

The tasks defined in the **task profile** can be modified while the Monitor is running. All tasks stop briefly, then the unused tasks are stopped and the newly-defined tasks are started.

This permits adaptation to different workloads in the running Monitor.

Defining a Monitor Task Profile

> To define Monitor tasks

1 Choose PF9 (Tasks) on the **Monitor Defaults screen**.

A **Monitor Task Profile** screen similar to the example below appears:

16.09.15	****	L11	tire					*			11:03:43
		Mor	nitor	Tas	sk Pr	ofi	1e				
Task #	1	2	3	4	5	6	7	8	9	10	
Schedule Extraction	Χ	_	_	_	_	_	_	_	_	_	
Activation	_	_	Χ	_	_	_	_	_	_	_	
JCL Loading	_	Χ	_	_	_	_	_	_	_	_	
Prerequisite Check	_	Χ	_	_	_	_	_	_	_	_	
Submission	_	_	Χ	_	_	_	_	_	_	_	/ aa.m.a.m.a.d.a.d
Submission, SAP Job Execution	_	_ X	_	_	_	_	_	_	_	_	< suspended
EOJ Check	X	٨	_	_	_	_	_	_	_	_	
EOJ Actions	Χ	_	_	_	_	_	_	_	_	_	
Message Sending	Χ	_	_	_	_	_	_	_	_	_	
Special Actions	χ	_	_	_	_	_	_	_	_	_	
Cleanup	Χ	_	_	_			_	_	_	_	
Deactivation	_		X								
Task wait time (sec.)											global 20
Max. Number of Natural											
Max. Idle Time of a Na	tural	Tasl	< ===	⇒ _	_3 m	in.					
F 1 DE1 DE0 DE0	D.E.4	D E E		F.C	D.E.	7 .	D.F.O.	DEC		D = 1 0	DE11 DE10
Enter-PF1PF2PF3	- PF4			16-	PF /	/	PF8-	PFS)	PF10	
Help End		Sa	ve								Menu

A matrix table with a list of all Monitor functions and tasks is displayed.

The fields and columns on the page are explained in *Fields: Monitor Task Profile*.

2 In the **Task** # column, mark each function you want to assign to the Monitor.

As soon as you select a task, the **Task Reconfiguration** option is activated.

3 Choose PF5 to save your changes.

The changes take effect at the next Monitor start.

This section covers the following topics:

Fields: Monitor Task ProfileAvailable Monitor Tasks

Fields: Monitor Task Profile

Field/Column	Meaning			
Task #	The Task # column lists all functions you can assign to the Monitor and the task number to which they are assigned.			
	The default for all functions is the main task, Task 1.			
	All tasks are performed when you start the Monitor.			
	All tasks are described in <i>Available Monitor Tasks</i> .			
suspended	Normally, each function is assigned to a task.			
	If required, for example, for disaster recovery, you can disable a function by removing the mark in the corresponding Task # column as indicated by suspended in the previous example .			
	The selected function is then disabled until you assign the task again.			
Task Wait Time (sec.)	Wait time (in seconds) between two Monitor task cycles.			
	This value can be defined individually for each Monitor task.			
	The value Global Monitor Wait Time from the Monitor Defaults will be used if no value is specified here.			
	Note: With this option, you modify the default settings only. If you want to modify			
	the settings of the current Monitor session, you must do this on the Monitor Tasks screen.			
Max. Number of Natural Tasks	Maximum number of tasks for the parallel execution of asynchronous Natural programs (NAT-type).			
	Increase this number if you want to run longer Natural programs in parallel.			

Field/Column	Meaning
	Default is 0: Natural programs are executed synchronously by Task 1.
Max. Idle Time of a Natural Task	A Natural task can remain active for some time after it has performed the last Natural program in its queue. This can be useful if there are many Natural programs with short execution times, and it eliminates some overhead for the starting and stopping of (sub)tasks. Default is 0: A Natural task terminates immediately if its queue is empty.
global	Global Monitor Wait Time.

Available Monitor Tasks

Main Task, Task 1

Task 1 is a general-purpose task and must always exist. It performs all functions for which no other task is defined. It is the only task which can start other tasks.

Other General-Purpose Tasks, 2 - 50

The other tasks in the top row (Numbers 2 to 50) are called general-purpose tasks. This means that each of them is capable of performing all functions. These tasks are all started at Monitor startup time. Each function can and must be performed by exactly one task.

Do not define too many Monitor tasks. If Task 1 is not sufficient for your needs, then the **previous example** shows a possible alternative. You should not exceed 2 to 4 tasks, since resources for administration of the individual tasks must always be considered.

Natural Tasks, 51 - 89

Natural programs (NAT-type jobs; Numbers 51 to 89) can be performed asynchronously in their own dedicated tasks. In the field **Max. Number of Natural Tasks**, you can specify how many of them can be active in parallel. In the field **Max. Idle Time of a Natural Task**, you can specify how long they should remain idle if their input queue is empty. These tasks are started if necessary.



Note: Asynchronous End-of-Job check (EJC) exits and End-of-Job action (EJA) exits will be executed in the Natural tasks too.

OGC RPC Service Task, 90

Task 90 performs background functions for the Entire Operations GUI Client (OGC). It is started automatically during Monitor startup. It cannot be configured by the administrator.

Defining Filters to Suspend Entire Operations Functions

You can reduce the system workload after disaster recovery by defining object filters and determining Entire Operations functions to be suspended for the specified jobs.

For each filter, you can specify whether it is activated (enabled) immediately or only specified for future activation.

To list and define filters and suspended functions

1 On the **Monitor Defaults screen**, choose PF10 (Susp).

A **Suspensions** screen similar to the example below appears:

08.03.18			ire Operations ***** pensions	12:05:57
	er for	lah	Suspendible	Frank la
Owner	Network	Job	Functions	Enable
*****	*****	*****	Top of Data *****	*******
EXAMPLE	*	J0B*	_ *	Y
DEMO*	_ TEST>	T>	_ A	N
SAGTEST	_ SAGNET	T<	_ J S	Y
*****	******	******	Bottom of Data *****	 ***********
				F9PF10PF11PF12
Help	End	ENAII Sav	re DisAl Up Down	

The screen lists all suspensions defined in your environment (empty if no suspensions exist).

2 Modify, add or remove a definition.

The columns and valid input values are explained in *Columns: Monitor Defaults - Suspensions*.

The special PF keys available are explained in *Special PF Keys: Suspensions*.

You can delete a suspension by removing the relevant entries from the table row.

3 Choose PF5 to save your definitions.

All enabled filters are evaluated by the Monitor when you choose PF3 and leave the function.

Special PF Keys: Suspensions

The special PF keys available on the **Suspensions screen** are explained in the following table:

PF Key	Name	Function		
PF4	EnAll	Enable (activate) all suspensions listed in the table.		
		All entries in the Enable column change to Y (Yes).		
PF6	DisAl	Disable (deactivate) all suspensions listed in the table.		
		All entries in the Enable column change to N (No).		
PF7	Up	Move up one row in the table.		
PF8	Down	Move down one row in the table.		

Columns: Monitor Defaults - Suspensions

The columns on the **Suspensions screen** are explained in the following table:

Column	Description			
Owner	Name of an owner or a range of names.			
	For valid range specifications, see Specifying Filter Criteria in the User's Guide.			
Network	rk Name of a network or a range of names.			
	For valid range specifications, see Specify	ing Filter Criteria in the User's Guide.		
Job	Name of a job or a range of names.			
	For valid range specifications, see <i>Specifying Filter Criteria</i> in the <i>User's Guide</i> .			
_	Ple Function to be suspended.			
Functions	ns Possible values:			
	A	Activation		
		Activate networks.		
P Prere Perfe		JCL loading Load JCL.		
		Prerequisite check Perform prerequisite checks.		
		Submission Submit jobs.		

Column	Description			
	Q	Submission, SAP Submit jobs of the type SAP (see the <i>User's Guide</i>).		
	U	Job execution Execute jobs.		
	Е	EOJ check Perform End-of-Job checking.		
	0	EOJ actions Perform End-of-Job actions.		
	М	Message sending Send messages.		
	D	Deactivation Deactivate networks.		
	*	All functions Perform all functions.		
Enable	Enable (activate) or disable (deactivate) the functions entered in Suspendible Functions .			
	Possible values:			
	Y	Enable function.		
	N	Disable function.		
	PF4 sets all filters to Y, PF6 sets all filters to N.			

8 Monitor Accounting

Enabling Monitor	Accounting	9
Enabling Monitor	Accounting	

You can use the Monitor accounting facility to collect data from Entire Operations Monitor tasks and functions performed by the Monitor and exits called by the Monitor. This can help you identify potential bottlenecks and improve the performance of the Monitor.

Monitor accounting must be enabled or disabled by setting the appropriate options as described in the following section. The Monitor accounting setting persists between restarts of the Monitor.

We recommend you to enable Monitor accounting only if required in order to avoid the overhead of performing Monitor tasks.

The data collected by Monitor accounting is written to the Entire Operations accounting file (see also *Entire Operations Files*).

You can generate a report from Monitor accounting data by using the appropriate reporting functions provided by Entire Operations GUI Client.

Enabling Monitor Accounting

> To enable and disable Monitor accounting

1 From the System Services Menu, select the Monitor Accounting option and press ENTER.

A **Monitor Accounting** screen similar to the example below appears:

2 In the input fields, enter the required values and choose PF5 to save your entries.

The fields and valid input values are explained in *Fields: Monitor Accounting*.

Fields: Monitor Accounting

The fields on the **Monitor Accounting** screen are explained in the following table:

Field	Description			
	r Enable or disable Monitor accounting.			
Accounting	Possible values:			
	Y Enable Monitor accounting.			
		Data collection starts immediately or on the date/time defined in Start Accounting .		
	N	Disable Monitor accounting (default).		
Interval	Time interval (in minutes) between two data collection attempts. Monitor accounting data is collected at the end of the given interval for each Monitor task and function performed or Monitor exit called. Valid values: 1 - 9999 Default: 10 minutes.			
Start	Date and time when Monitor accounting starts.			
Accounting	If accounting is enabled and these fields are left empty, data collection starts immediately.			
Stop	Date and time when Monitor accountin	g stops.		
Accounting	If accounting is enabled and these fields the Enable Monitor Accounting option	ls are left empty, data collection remains active until on is disabled.		

Global Messages for Events

Accessing the Global Messages for Events Screen	100
Recipient Table	
Event Store	
Symbols to be Used	
Events to be Selected	
Special PF Keys: Global Messages for Events	
Special FF Neys. Gioral intessages for Everits	103

The **Global Messages for Events** screen is used to determine the message recipients for specified events.

Accessing the Global Messages for Events Screen

- > To define global messages for events
- From the System Services Menu, select the Global Messages for Events option and press ENTER.

A **Global Messages for Events** screen similar to the example below appears:

16.10.18	**** Entire 0	perations	****	15:03:54
	Global Message	es for Ev	rents	
Definition of events, fo				
SAT Event Store. Please		·		
message sending. You car	I use Pro to IIIo	arry the	recipient table	•
	Message	e Event		
Events	Sending		Symbols to be	used
Monitor Runtime Informat	tion Y	Υ	Owner	==> SYSDBA
Monitor Runtime Errors	Υ	Υ	Symbol Table	==> GMSG-RCV
Activation and JCL Load	Errors N	Υ	Version	==> (unnamed)_
Latest start time exceed	ded N	N	Escape	==> @
Job executing after dead	dline N	N		
Job not ok, or execution		Υ		
Network or Job not termi		Υ		
Awaiting Symbol Promptir	ng N	N		
Symbol not found	N	Υ		
Calendar undefined for y		Υ		
Node Errors	Y	Υ		
Execution time threshold	d reached Y	Υ		
		D.E.7	DEO DEO DE1	0 DE11 DE10
Enter-PF1PF2PF3P			PF8PF9PF1	026116612
Help End	Save Rcp	id Syllib		

Recipient Table

For all events marked with Y in the input fields of the **Message Sending** column, a predefined message will always be sent to all recipients defined in the recipient table (opens with PF6) for these events.

This function works only if the recipient table contains at least one recipient.



Note: Only one recipient table is available for all defined events.

You can use e-mail addresses as recipients. These must be stored in the symbol table, which can be defined on the **Global Messages for Events** screen.

The recipient table contains the symbol, preceded by the global activation escape character, representing the recipient in this case.

The fields contained in the recipient table are explained in *Fields and Columns: Message and Message Recipients* in the section *Message Sending* in the *User's Guide*.

Event Store

You can limit the number of messages distributed among users by storing part of the messages in the event store of System Automation Tools. The messages can then be checked only if required.

For all events marked with Y in the input fields of the **Event Store** column, a predefined message will always be saved in the event store (if used) of System Automations Tools.

For detailed information on the event store, refer to the appropriate *System Automation Tools* documentation.

Symbols to be Used

In the **Symbols to be Used** section of the **Global Messages for Events** screen, you can specify the symbol table to be used for all symbol replacements within the message **recipient table**.

In the input fields, you can enter a valid name or use the asterisk (*) as a wildcard to select a name from a selection window.

Field	Description
Owner	Owner of the symbol table used for symbol replacements within the recipient table.
Symbol Table	Symbol table to be used for symbol replacements within the recipient table.
Version	Version of the symbol table to be used.
(Symbol Table)	If you do not specify a version, the unnamed version is used. Specify (unnamed) if you want to use the current version for the current date.
Escape	Read-only field.
	The escape character to be used is the global activation escape character.
	The value is derived from the global activation escape character . It cannot be modified here.

Events to be Selected

In the **Events** section of the **Global Messages for Events** screen, you can specify the events for which messages are to be sent and/or stored in the **event store**.

Prerequisite: The **recipient table** must be valid.

You specify the events to be selected by entering Y (Yes) in the input field next to the required events. Events for which Y (No) is entered are not selected.

Events Selected	Messages Sent
Monitor Runtime Information	Messages are sent each time the Monitor starts or shuts down a task.
Monitor Runtime Errors	Messages are sent each time the Monitor error routine is activated due to a Monitor runtime error.
Activation and JCL Load Errors	Messages are sent by the Monitor if activation or JCL load errors occur.
Latest start time exceeded	Messages are sent each time a job was not submitted before the defined or calculated start time was reached.
Job executing after deadline	Messages are sent each time the Monitor detects that a job was not terminated before its defined or calculated deadline time.
Job not ok, or execution error	 Messages are sent: Each time the Monitor detects that a job ended not ok. If the condition NET-END-NOTOK is set or reset with an active subnetwork. See also Link to the Main Network in the User's Guide. For other job execution errors.

Events Selected	Messages Sent
Network or Job not terminated	Messages are sent by the network deactivation routine if the active network or job is not terminated.
	In this case, the active jobs will be deactivated if the retention period for active jobs is reached. The retention period is defined in the <i>Default Setting</i> (1) described in the <i>Administration</i> documentation.
Awaiting Symbol Prompting	Messages are sent each time the Monitor detects that at least one symbol is to be prompted for network activation.
Symbol not found	Messages are sent each time a symbol cannot be found and cannot be handled successfully by the global symbol not found exit.
Calendar undefined for year	Messages are sent each time Entire Operations detects that a calendar is undefined for the current or the next year.
Node Errors	Messages are sent by the Monitor if errors occur during node access.
Execution time threshold reached	Messages are sent if a job runs three times longer than the estimated elapsed time defined for the job in the Scheduling Parameters window (see the section <i>Schedule Maintenance</i> in the <i>User's Guide</i>).

Special PF Keys: Global Messages for Events

PF Key	Name	Function
PF6	RcpTa	Recipient table.
		Use this PF key to open and modify the recipient table.
PF7	Symb	Symbol table.
		Definition of symbols to be used in message recipient definitions.
		You can view and modify all symbols defined for the specified symbol table.

10 Global User Exits

Accessing Global User Exits	. 106
Global Exit for Version Names	
Global JCL Activation Exit	
Global Symbol Modification Exit	
Global Symbol Not Found Exit	
Global Message Sending Exit	

This section describes the global user exits that can be used to perform version, JCL, symbol or message validation checks in the whole Entire Operations environment. This is useful, for example, if no specific validation checks are defined for single job networks.



Note: The existence of the defined global user exits is checked during the Entire Operations Monitor startup. If at least one of these exits cannot be found, the Entire Operations Monitor performs an immediate shutdown.

The following applies:

- A global user exit may exist only once within the whole Entire Operations installation.
- All global user exits are optional.
- The user exits must reside as Natural objects in the SYSEORU library.
- The same coding rules and restrictions apply as described in the sections *User Exits* and *Starting* an *Edit Session* in the *User's Guide* apply.

Related Topic:

User Exits in the User's Guide

Accessing Global User Exits

- To access and maintain global user exits
- 1 From the System Services Menu, select the Global User Exits option and press ENTER.

A **Global User Exits (optional)** screen similar to the example below appears:

```
***** Entire Operations *****
17.12.13
Owner NOPALL
                                                               15:39:57
                     Global User Exits (optional)
                    Exit Name
Version Names
                    NVNX0001
JCL Activation
Symbol Modification
Symbol Not Found
                    _____ Type _ A Assembler N Natural
Job Submission
Message Sending
                       _____ Usage _
Please note the possible overhead being created by the user exit usage.
Command =>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help End Save
```

2 Enter or change the required values.

The input fields are described in *Fields: Global User Exits*.

3 Choose PF5 (Save) when you are finished.

Fields: Global User Exits

Field	Meaning
Version Names	Name of the user exit to be used as the global exit for version names.
JCL Activation	Name of the user exit to be used as the global JCL activation exit.
Symbol Modification	Name of the user exit to be used as the global symbol modification exit .
Symbol Not Found	Name of the user exit to be used as the global symbol not found exit .
Job Submission	This global exit is obsolete and should no longer be used.
Туре	It is only maintained for backward compatibility with previous versions of Entire Operations.
	The exit was used for job submission on mainframe operating systems (z/OS, z/VSE and BS2000) only.
Message Sending	Name of the user exit to be used as the global message sending exit.

Field	Meaning	
Usage Only applies to Message Se		ing.
	Option to be used for the globa	al message sending exit.
	Note: Extensive use of this exit	t can cause considerable overhead.
	Possible values:	
	N	Never use this exit.
	S	Use for explicit sending via exit only (=EXIT).
	D	Additionally for all defined message send actions.
	A	For all events.

All global exits are described in the following sections.

Global Exit for Version Names

- Function
- Parameter List
- Return Codes

Function

If specified, this exit will check each newly created network version name or symbol table version name.

The exit must be coded as a Natural subprogram.

Parameter List

The parameter list is named NOPXPL-A (see *User Exits* in the *User's Guide*) and is available in the SYSEOR system library.

Include it in the exit with:

DEFINE DATA PARAMETER USING NOPXPL-A

Parameter	Meaning	
P-CALL-PLACE	NVN	For network version checking.
	SVN	For symbol table version checking.

Return Codes

P-RC	Meaning	
0	The version name is OK.	
	The version name is rejected by the exit. If the version name is rejected, the content of $P-RT$ will be shown as error message.	
	If P-RT is empty, a generic error message will be shown.	

Global JCL Activation Exit

- Function
- Parameter List
- Return Codes

Function

If specified, Entire Operations will use this exit for each job activation.

The exit must be coded as a Natural subprogram. It is possible to modify almost all fields which describe the JCL location.



Note: You must set P-RC := 1 to make the modifications valid.

The modifications are effective only for the current run, but not for the job's master definition.

Parameter List

The parameter list is named AJCLX1-A and is available in the SYSEOR system library.

Include it in the exit with:

DEFINE DATA PARAMETER USING AJCLX1-A

Return Codes

P-RC	Meaning
0	OK, no modification of the JCL location.
1	OK, JCL location was modified by exit.
other Access to JCL file denied or other problem.	
	In this case, the JCL load for the given job will be interrupted.

Global Symbol Modification Exit

- Function
- Parameter List
- Return Codes

Function

User-defined symbols may be modified and validation checks carried out during job network activation. If defined, this exit will be invoked during the activation of all job networks for which no specific symbol prompting or modification exit was defined.

In the case of user-defined map(s) and validation checks during the symbol prompting for job network activation, the symbols must be read and updated by the Entire Operations API routine NOPUSY7N (see *API Routines* in the *User's Guide*). This API routine also allows sequential reading in the active symbol table.

See also *Specifying User Exits for Symbol Modification* in the section *Symbol Table and Symbol Mainten- ance* in the *User's Guide*.

Parameter List

The user exit is to be written as a Natural subprogram and must use the supplied parameter list NOPSYP3A (see *User Exits* in the *User's Guide*). This parameter list contains all environment parameters needed.

A list of symbol tables used for this network activation will be passed.

Return Codes

P-RC	Meaning
0	OK, modifications were done.
1	OK, no symbols prompted or modified.
2	Activation cancelled.
3	On input, rewrite modified symbols to the master symbol table.

Global Symbol Not Found Exit

- Function
- Parameter List
- Return Codes

Function

This exit is invoked during the activation of all job networks for which no specific symbol prompting or modification exit was defined and symbol search failed within the existing hierarchy.

All actions of this exit will be logged.

For special Usage considerations, see Usage in



Note: Extensive use of this exit can cause considerable overhead.

Parameter List

For this exit, the common exit parameter list NOPXPL-A (see *User Exits* in the *User's Guide*) is used. The field P-CALL-PLACE contains SNF.

Return Codes

P-RC	Meaning
0	Exit returned another symbol value.
1	Accept that the symbol is missing; skip replacement.
2	Use another symbol instead.
	The returned symbol value will be preceded by the current escape character and followed by a period (.), which will be used as a wildcard. This causes a new symbol replacement with the returned symbol.

P-RC	Meaning
3	Exit returns: symbol not found.
	The symbol replacement is not successful.

Global Message Sending Exit

This exit can be used to send messages for job events. The exit must be coded as a Natural subprogram.

For possible option settings, see the **Usage field** described in *Fields: Global User Exits*.



Note: Extensive use of this exit can cause considerable overhead.

This section covers the following topics:

- Parameter List
- Return Codes

Parameter List

The parameter list is named NOPMSG-A and is available in the SYSEOR system library.

Include it in the exit with:

DEFINE DATA PARAMETER USING NOPMSG-A

Return Codes

P-RC	Meaning
0	Exit execution was OK.
1	Temporary error.
	The Entire Operations Monitor should try to send the message through the exit later.
2	Permanent error.
	The Entire Operations Monitor should not try to send the message through the exit later.

11 Global Message Code Table

 Columns: Global Message Code Table 	11
• Columns' Global Wessage Code Table	

This function allows you to select message codes to be checked by default after each job termination.

- > To view and specify message codes for checking
- From the System Services Menu, select the Global Message Code Table option and press ENTER.

A **Global Message Code Table** screen similar to the example below appears with a list of all current codes:

17-03-06		12:16:34			
Usage:		sage codes will b Checking.	be searche	ed by default during	each
		Message Code	Severity	0pSys	
		NAT9978 NAT0001	0012 0012		
Command =>					
	F2PF3 End	- PF4 PF5 PF Save	6PF7F	PF8PF9PF10PF1	1PF12 Menu

Columns: Global Message Code Table

The columns of the Global Message Code Table window are described in the following table:

Column	Meaning			
Message Code	Message code, for example, IEF9991.			
	This field is case-sensitive.			
Severity	Highest resulting severity code of a job will be compared with the default condition code to be treated as not ok. In other words: The detection of the message causes a simulate condition code setting.			
	The default condition/severity code can be defined in the Entire Operations defaults by selection the z/OS option from the OpSys Specials window. For details, see <i>Defaults for z/OS and z/V</i> in the section <i>Entire Operations Defaults</i> .			
OpSys	Operating system for which the message code is valid.			
	Possible values:			
	empty	The message code is scanned for all mainframe operating systems.		
	UNIX	The message code is scanned for all UNIX operating systems.		
	WINDOWS	The message code is scanned for all Windows operating systems.		
	OPENSYS	The message code is scanned for all UNIX and Windows operating systems.		

12 Resources

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The maintenance functions provided in **System Services** are used to define resource master definitions to Entire Operations.

A resource master determines the maximum amount of usage available for executing all jobs that reference the resource. This amount is defined as a fixed value (initial quantity) in the resource master. Each resource must be defined as a resource master, before it can be used by a job.

Part of the amount (or the entire amount) specified for a resource can be defined as a prerequisite requirement for a single job or multiple jobs. This can be helpful, for example, to control execution of jobs that run at the same time.

The current amount of a resource master can be determined by an exit, which is periodically invoked by the Entire Operations Monitor. The exit can change the amount currently available for a resource, for example:

- If a requested symbol is not found;
- If a time limit set for job execution is reached;
- If not enough space is available for job execution.

For more information, see *Using a Resource Master Determination Exit*.

Related Topic:

Use as a prerequisite condition for jobs: Handling Prerequisite Resources for a Job and Viewing and Modifying Resources Used by Active Jobs in the User's Guide

Listing Resources

- To list available resources
- From the System Services Menu, select the Resources option and press ENTER.

A **Resources** screen similar to the example below appears:

12.03.16 Owner EXAMPLE Selection A	****		perations * ⁵ urces	***		12:42:31
Cmd Resource * AA-XIT AAAAA AAAAB AAAAB	R R R R	Qty 10.00 123.00 456.00 789.00	Used Qty	Library EOR-T531	Exit Member AA-XORES JCL-2	Time
_ AA1 _ ADA-1 _ ADA-9 _ ADAPROD1 _ APBAMF-NEXT-JOB _ APS-ASSEMBLE _ ATEST	N N R R R	0.00 10.00 1.00 0.00		EOR531		Y 14:22 N
<pre>**************** D Delete E Edit Exit C Check Usage X Invok Command =></pre>		M Modify	J Defined			
Enter-PF1PF2PF3 Help Add End		PF5PF6 Save			-PF10PF1	l1PF12 Menu

The screen contains a list of resources defined in Entire Operations (the list is empty if no resources are defined).

The columns are explained in *Columns: Resource Master List*.

Columns: Resource Master List

The columns of the **Resources screen** are described in the following table:

Column	Meaning		
Cmd Line command input field.			
For possible commands, see <i>Line Commands: Resources</i> .			
Resource	Name of the resource.		
This can reflect real resources or can describe a fictitious resource.			
	In the line below the column heading, you can enter selection criteria for the range of to be listed. See <i>Specifying Filter Criteria</i> in the <i>User's Guide</i> .		
Туре	Type of the resource.		
	Possible values:		
	U	Not reusable, quantitative.	

Column	Meaning		
	R	Reusable, quantitative.	
	N	Not quantitative (absolute).	
	For more information, see the Type field de	scribed in Fields and Columns: Resource Definition.	
Initial Qty	Total amount of the resource defined to the	e system.	
Used Qty	Amount of resource currently used by run	ning jobs.	
Exit Library	Natural library of the resource determinati	on user exit.	
	The fields and commands available for user exit usage are described in <i>Fields: Resource Definition</i> and <i>Special PF Keys: Resource Definition</i> .		
Exit Member	Natural object of the resource determination	on user exit.	
	The fields and commands available for user exit usage are described in <i>Fields: Resource Definition</i> and <i>Special PF Keys: Resource Definition</i> .		
E	User exit enabled.		
	Possible values:		
	Y The user exit is enabled.		
	N	The user exit is not enabled.	
Call Time	Date and time of the last invocation of the resource master determination user exit.		
	See also Date and Time Formats in the User's Guide.		

You can maintain resources using available line commands and PF keys.

Line Commands: Resources

Line Command	Meaning
D	Delete resource.
E	Edit user exit.
J	Show the definition as prerequisite resource for jobs: see <i>Listing Jobs Defined for a Resource</i> .
М	Modify selected resource definition.
W	Show active resource usage: see <i>Listing Jobs Currently Using a Resource</i> . This line command opens a screen which shows the current usage of the resource by active jobs.
С	Check usage. Calculates the total quantity currently used by a resource. The calculated value helps you control consistent usage of the resource and adjust the initial quantity defined for a resource, if required.
Х	Invoke the resource master determination exit.

Adding and Modifying a Resource Master

Note: The usage of resources can be restricted to read-only access in your user profile as described in *Monitoring Functions* in the section *User Maintenance*.

To add a new resource master

1 On the **Resources screen**, choose PF2 (Add).

A Resource Definition window opens.

2 Enter the required definitions.

The fields and special PF keys available are described in the sections *Fields: Resource Definition* and *Special PF Keys: Resource Definition*.

When you are finished, choose PF5 (Save) to save the new resource definition.

To modify a resource

On the **Resources screen**, enter M in the line input field next to the required resource and press ENTER.

A **Resource Definition** window opens with the current resource definition:

You can modify the resource definition by replacing the current values. Choose PF5 (Save) to save the modified resource. Choose PF3 (End) to return to the list of resources.

For explanations of the input fields and commands available, see *Fields: Resource Definition* and *Special PF Keys: Resource Definition*.

Fields: Resource Definition

The fields in the **Resource Definition** window are described in the following table:

Field	Meaning		
Resource	Name of the resource.		
	You must specify this name when using this resource as a prerequisite for a job.		
Type	Type of the resource.		
	Possible values:		
	U	Not reusable, quantitative.	
		The amount of the resource (e.g., paper) used by a job is not released at job completion.	
	R	Reusable, quantitative.	
		The amount of the resource (e.g., address space) used by a job is released at job completion.	
	N	Not quantitative.	
		The resource is either entirely available or not available (e.g., a database or printer).	
Initial	Initial quantity defined for resources of the	ne type U and R.	
Quantity	The field is read-only if the amount of the resource is determined by a resource master determination exit.		
	Note: The initial quantity can be modified	d to a value which is less than the currently used	
	quantity.		
Used Quantity	y Read-only field.		
	Shows the amount of the resource curren	tly in use.	
	This value is useful when you wish to modify an existing resource. If you define a new resource, this field shows zero.		
Exit	If a resource master determination exit is defined, the initial value of the resource is determined at each invocation of the routine.		
	The user exit is invoked during prerequisite checks for the resource.		

Field	Meaning				
	The check interval set for the user exit specifies the period of time (in minutes) between two user exit calls.				
	The exit is used only if it is enabled. If the exit is enabled, the manual setting of the initial value is disabled.				
	It is possible to pass parameters to the exi	t. See the field help.			
	The exit execution can be forced with a lir	ne command.			
Library	Natural library in which the user exit residual	des.			
	This library should be different from the S	SYSEOR system library.			
Parameter	esource master determination exit, in the field cameter data area (see <i>User Exits</i> in the <i>User's</i> er is the global activation escape character. The				
	symbols must reside in the global symbol	table RMD-PARM of the owner SYSDBA.			
Exit enabled	The resource master determination user exit is only used if it is enabled. If enabled, the initial value of the resource cannot be set manually. Possible values:				
	Υ	Enables the user exit.			
	N	Disables the user exit.			
Exit Check	Minimum interval between two determinations of the resource.				
Interval	The overhead of resource determinations increases with smaller intervals.				
	A resource determination can be forced at any time by the line command X in the resource list.				
Maximum	Maximum number of jobs to awake from	a passive wait state.			
number of jobs that will be awakened	You can specify a maximum number to limit the storage used by resources. This is useful for large networks where many active jobs require the same resource.				
from passive waiting	When the maximum number is reached, jobs remain in the wait queue until enough resource storage is available to process further jobs.				
	If zero (0) is specified (default), no limit a	pplies.			
Last Value Determination	Date and time of the last determination of determination exit (if defined).	the resource amount by the resource master			
	See also <i>Date and Time Formats</i> in the <i>User</i>	's Guide.			

Special PF Keys: Resource Definition

The following special PF keys are available as commands in the **Resource Definition** window:

PF Key	Meaning
PF3	Close window; return to resource master list.
PF5	Save definition.
PF6	Force resource determination by exit.
	Invokes the resource master determination exit to determine the current amount of the resource.
	See also Using a Resource Master Determination Exit.

Using a Resource Master Determination Exit

A resource amount determination exit can be defined for each resource master.

When the exit is invoked, the currently available amount of the resource is returned. The return of the initial amount is optional.

Initial amounts will not be used for normal prerequisite resource checks.

One exit can be used for several (e.g., similar) resource masters, because the name of the resource is passed as an input parameter to the exit.

You can check whatever you need to determine the resource amount. You can invoke Entire System Server views and/or check any database contents.



Note: The user is responsible for the performance of the coded exit.

After the exit is invoked, the new available quantity will be stored in the resource master record. Triggering of passive waiters will only be done if the new quantity is different from the old one.

Resource master determination exits can be **enabled** and **disabled**. If the use of the exit is disabled for a resource, this resource behaves like a resource without exit.

Exit Parameter List

For the common parameter list for user exits, see *Parameters Used for Different Call Places* in the section *Common User Exit Parameter Data Area NOPXPL-A* in the *User's Guide*.

The list contains:

- Return code (out)
- OK, determination successful

- Resource cannot be determined (permanent)
- Resource cannot be determined (temporary)
- Parameter(s) missing
- Return text (out)
- Resource name (in)
- Timestamp for which the evaluation is to be made (in). (Usually, the Natural *TIMX system variable will be passed.)
- Current maximum amount as known to Entire Operations (in)
- Currently used amount (in)
- New maximum amount (out)
- New used amount (out)

Listing Jobs Defined for a Resource

- > To view jobs defined for a resource
- On the Resources screen, enter the line command J next to the required resource and press ENTER.

A **Resource defined in Jobs** screen similar to the example below appears:

```
06.11.08
               **** Entire Operations ****
                                                  09:16:48
                   Resource defined in Jobs
1.20
Resource R-20
                    Initial Quantity Type
defined in
                           777.00 R
Owner
        Network Job
                        Quantity Dealloc. D.if not ok
        RES-PRQ
SN
                            20.00
                J1
        RES-PRQ
                            0.01
SN
                J2
Enter-PF1---PF3---PF3---PF5---PF6---PF7---PF8---PF10--PF11--PF12---
    Help
            End
```

The screen shows a list of the jobs in which the selected resource is defined as a prerequisite resource.

The fields and columns on the screen are described in *Field and Columns: Resource Defined in Jobs*.

Field and Columns: Resource Defined in Jobs

The fields and columns on the **Defined in Jobs screen** are described in the following table:

Field/Column	Meaning
Resource	Name of the resource.
Initial Quantity	Initial quantity as defined in the resource master definition (see <i>Fields: Resource Definition</i>).
Type	Type of the resource as defined in the resource master definition (see <i>Fields: Resource Definition</i>).
Owner	Owner, network, network version and job in which the resource is defined as a prerequisite.
Network	
Version	
Job	

Field/Column	Meaning
Quantity	Amount which is requested by this job.
Dealloc.	Deallocation mode.
	See Resource Deallocation Modes in the User's Guide for details.
D.if not ok	Deallocation if the job does not end ok.
	See Resource Deallocation Modes in the User's Guide for details.

Listing Jobs Currently Using a Resource

- > To view all active jobs using a resource
- On the **Resources screen**, enter the line command W next to the required resource and press ENTER.

An **Active Resource Usage** screen similar to the example below appears:

04.12.19	**	*** Entire Oper Active Resour			11:44:37
Resource HUGO used by		Type R	A P	initial total used	Quantity 1900.00 10.00
Cmd Owner _ SAG _ SAG	Network B60-FLOW B60-FLOW	Run Job 5 JOB-01 7 JOB-06	A D I Begi	n 2 17:14	5.00
******* F Force Relea		***** Bottom of	⁻ Data *****	******	******
Enter-PF1PF2 Help	PF3PF4 End	PF5PF6	- PF7 PF8 Up Down	PF9PF10P	F11PF12

This screen shows a list of active jobs which are currently using a resource.

The fields and columns on the screen are described in *Fields and Columns: Active Resource Usage*.

This section covers the following topics:

- Fields and Columns: Active Resource Usage
- Line Command: Active Resource Usage

Fields and Columns: Active Resource Usage

The fields and columns on the **Active Resource Usage screen** are described in the following table:

Field/Column	Meaning
Resource	Name of the resource.
Туре	Type of the resource as defined in the resource master definition (see <i>Fields: Resource Definition</i>).
Initial Quantity	Initial quantity as defined in the resource master definition (see <i>Fields: Resource Definition</i>).
Total Used Quantity	Sum of all amounts of single usages of the resource.
Cmd	Line command input field.
	For possible line commands, see <i>Line Command: Active Resource Usage</i> .
Owner	Owner, network and run number of the active job by which the resource is allocated.
Network	
Run	
Job	
A	Allocation mode.
	See Resource Allocation Modes in the User's Guide for details.
D	Deallocation mode.
	See Resource Deallocation Modes in the User's Guide for details.
API	Allocated by a resource API.
	Y indicates that this allocation was made by a resource API call: see NOPURE2N: Handle Resource Allocations in the User's Guide.
Begin	Date and time of the allocation.
	See also <i>Date and Time Formats</i> in the <i>User's Guide</i> .
Quantity	Allocated quantity.

Line Command: Active Resource Usage

Line Command	Meaning
F	Force release of the resource.
	To be used for a manual release of a resource allocation.
	Be aware that this may cause the submission of jobs, which wait for this resource.

Deleting a resource master

> To delete a resource master

On the **Resources list screen**, enter D (Delete) in the line command input field next to the resource you want to delete and press ENTER.

A confirmation window opens.

2 Enter the resource name and press ENTER to perform the deletion and close the window.

Note:

The deletion of a resource master is allowed only if the resource is no longer used

- in any job master definition;
- in any active job.

13 Mailbox Definition

Listing Mailboxes defined to Entire Operations	13	32
Adding and Modifying Mailbox Definitions		
Deleting a Mailbox Definition		

A mailbox is a logical entity within Entire Operations and serves to notify users of pending input conditions.

A mailbox can be specified for an input condition and for a user.

When the input condition is not fulfilled for a job, Entire Operations sends a message to the mailbox. The user associated with the mailbox is notified and can perform the prerequisite task and set the condition manually.

Related Topics:

- Mailboxes, Message Sending in the Concepts and Facilities documentation
- Working with Mailboxes in the User's Guide

Listing Mailboxes defined to Entire Operations

To list mailboxes

■ From the System Services Menu, select the Mailbox Definition option and press ENTER.

A **Mailbox Definitions** screen appears with a list of mailboxes already defined to the system:

```
05.11.08
                    *** Entire Operations ***
                                                      14:34:29
                         Mailbox Definitions
Cmd Mailbox Name
                    Description
    GHH-BOX
                    for Quality Assurance purposes
    DQA-BOX
    DWI-BOX
    ESTACION20
                    Espana por favor
                    Test import/export tool
    EXPORT-BOX
    GFR
    GFR1
    GFR10
     GFR11
    GFR2
    GFR3
*******************************
D Delete M Modify
Command =>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
    Help Add End Save Up
                                        Down
                                                             Menu
```

The screen contains a list of mailboxes defined to Entire Operations (the list is empty if no mailboxes are defined).

The columns of the **Mailbox Definitions** are described in the following table:

Column	Meaning
Cmd	Line command input field.
	For possible line commands, see <i>Line Commands: Mailbox Definitions</i> .
Mailbox Name	User-defined name of the mailbox.
Description	Short descriptive text.

Line Commands: Mailbox Definitions

Line Command	Description
М	Modify mailbox.
D	Delete mailbox.

Adding and Modifying Mailbox Definitions

To add a mailbox definition

1 On the Mailbox Definitions screen, choose PF2 (Add).

A Mailbox Definition window similar to the following example opens.

- 2 Enter the required values: see *Fields: Mailbox Definition*.
- 3 Choose PF5 (Save) to save the mailbox definition.
- 4 Choose PF3 (End) to close the definition window and return to the list of mailboxes.

The new mailbox definition appears in the list.

> To modify a mailbox description

1 On the Mailbox Definitions screen, enter M in the line command input field next to the mailbox you want to modify and press ENTER.

A **Mailbox Definition** similar to the example below opens:

2 Modify the description as required by replacing the current text. See also *Fields: Mailbox Definition*.

(You cannot modify the mailbox name.)

- 3 Choose PF5 (Save) to save the modification.
- 4 Choose PF3 (End) to close the window and return to the list of mailboxes.
 - Fields: Mailbox Definition

Fields: Mailbox Definition

The fields contained in the Mailbox Definition window are explained in the following table:

Field	Meaning
Mailbox Name	User-defined name of the mailbox.
Description	Short descriptive text.

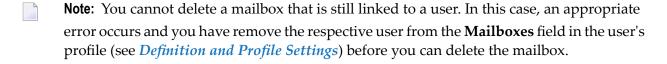
Deleting a Mailbox Definition

To delete a mailbox

1 On the Mailbox Definitions screen, enter D in the line command input field next to the mailbox you want to delete and press ENTER.

A confirmation window opens.

2 Enter the mailbox name and press ENTER to perform the deletion and close the window.



14 Special Functions

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Entire Operations provides the system administrator with several special global, control and recovery functions.



Note: Some of these functions should be used only as recovery for uncommon situations.

Accessing Special Functions

- > To access special functions
- From the System Services Menu, select the Special Functions option and press ENTER.

A **Special Function Selection** screen appears:

```
16-08-30
                        **** Entire Operations ****
                                                                    14:10:50
                          Special Function Selection
 Cmd Function
     Global Schedule Extraction
     Cleanup of the Active Database
     Control of Activity Monitoring
     Removal of all Monitor Commands
     Deactivation in Foreground
     System File Adaptations for new Version
     JCL File Password: Global Exchange
     Force prerequisite check for jobs in Passive Wait
      Pending Tasks
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help
                 End
```

Columns: Special Function Selection

The columns on the **Special Function Selection** screen are explained in the following table:

Column	Meaning	
Cmd	Line command input field.	
	Enter any character next to the function you want to use and press ENTER.	
Function	A short description of the function.	

Global Schedule Extraction

The activation of networks is handled by the Entire Operations Monitor in the following steps:

- Extraction of the schedules, by default at the beginning of a new day.
- The activation of the extracted job networks at or shortly before the earliest start time of the network.

The examination of the schedules can be forced at any time by using the **Global Schedule Extraction** feature. Several schedule extractions on the same day have no influence on already extracted activations.



Note: Any modification to a schedule automatically implies an activation extraction for the networks linked to this schedule.

This section covers the following topics:

- Setting Dates and Times for Extraction
- Deleting Dates and Times Set for Extraction
- Columns/Fields: Global Schedule Extraction

Setting Dates and Times for Extraction

- > To add an activation date and time for schedule extraction
- On the **Special Function Selection screen**, mark **Global Schedule Extraction** with any character and press ENTER.

A **Next Global Extractions** window similar to the example below opens:

```
Owner Network
Next Global Extractions

Cmd Date Act. Start Type
_ 15.10.18 15:22 Global

D Deactivate M Start Time
PF1 Help PF2 Add PF3 End PF7 Up PF8 Down
```

The columns and line commands available in the window are explained in *Columns/Fields: Global Schedule Extraction*.

2 Choose PF2 (Add).

A **Schedule Activation Extraction** window opens. The fields are explained in *Columns/Fields: Global Schedule Extraction*.

3 Enter the required date and time and choose PF3 (End).

See also Date and Time Formats in the User's Guide.

The window closes and the new date and time are listed in the **Next Global Extractions** window.

> To modify an activation date and time for schedule extraction

In the **Next Global Extractions window**, enter the line command M (Start Time) next to the date and time you want to change, and press ENTER.

A **Start Time Modification** window opens. The fields are explained in *Columns/Fields: Global Schedule Extraction*.

2 Enter the required new date and time and choose PF3 (End).

Deleting Dates and Times Set for Extraction

> To delete an activation date and time for schedule extraction

■ In the Next Global Extractions window, enter the line command D (Deactivate) next to the date and time you want to delete, and press ENTER.

Columns/Fields: Global Schedule Extraction

The following table describes the columns and fields contained in the **Next Global Extractions** and related subordinate windows:

Column/Fields	Meaning	
Next Global Extract	ext Global Extractions window:	
Cmd	Line command input field.	
	For possible line commands, see <i>Line Commands: Global Schedule Extraction</i> .	
Date	Date of the activation extraction.	
	See also Date and Time Formats in the User's Guide.	
Act.	Time of the activation extraction.	
	See also Date and Time Formats in the User's Guide.	
Start	Time at which the job network was started in the operating system.	
Туре	Status of network activation processing.	
	Possible status values:	
	Global schedule, active on demand	
	Activation now	
	Activation in progress	
	Sched. job	
	Demand job	
	Schedule table	
	Aw. symbol prompting	
	Activation error	
	Symbol entry in progress	
	Hold for symbol entry	
Schedule Activation	n Extraction window:	
Date/Time	Date and time to be used for activation extraction.	
	See also Date and Time Formats in the User's Guide.	
Start Time Modifica	me Modification window:	
Start	The planned (old) start time previously set and the new start time to be used instead.	
planned/new	For valid input values, see Date and Time Formats in the User's Guide.	

Column/Fields	Meaning	
Keep predefined	Adapt the job time frames.	
Job Time Frames		
	Possible values:	
	N	All job time frames are adapted (default).
		Jobs with master time frame definitions are not adapted.

Line Commands: Global Schedule Extraction

Line Command	Description	
D	Deactivate.	
	Cancel the planned or scheduled network activation.	
М	Start time.	
	Opens the Start Time Modification window to change the network start time.	

Cleanup of the Active Database

Normally, the active database is cleaned automatically every time the Entire Operations Monitor starts up or at the beginning of a new day.

An immediate cleanup of the active database can be triggered at any time. It is executed by the Entire Operations Monitor (in the background). This cleanup removes expired active job entries, pending tasks, log records, and related material from the Entire Operations database file. The retention periods of the Entire Operations default settings (see *Default Setting* (1)) are used.

Alternatively, the cleanup of the active database can be performed in batch mode. See *Cleanup of the Active Database in Batch Mode* described in the *User's Guide*.

All operations performed during the cleanup are recorded in the Entire Operations log.

To clean up the active database

On the **Special Function Selection screen**, mark **Cleanup of the Active Database** with any character and press ENTER.

A window similar to the following opens:

2 Confirm the cleanup by entering CLEANUP and pressing ENTER.

Control of Activity Monitoring

This function allows interaction with non-conversational Entire Operations activity monitoring displays started on other terminals. They can be stopped, or the interval time can be modified.

This section covers the following topics:

- Viewing and Changing Activity Monitoring Settings
- Fields: Entire Operations Activity Monitoring

Viewing and Changing Activity Monitoring Settings

- To view and change the activity monitoring settings
- 1 On the **Special Function Selection screen**, mark **Control of Activity Monitoring** with any character and press ENTER.

An Entire Operations Activity Monitoring window similar to the following opens:

```
! Entire Operations Activity Monitoring !
! on Terminal ==> DAEFTCG1 !
! Stop ==> _ (mark) !
! Start at ==> 05.11.08 14:37:08 !
! Interval ==> 10____ Seconds !
! PF3 End PF10 Delete Entry !
```

If required, changes the entries. The input fields are explained in *Fields: Entire Operations Activity Monitoring*.

2 Press ENTER to confirm all entries.

Fields: Entire Operations Activity Monitoring

The fields in the **Entire Operations Activity Monitoring window** are explained in the following table:

Field	Meaning	
on Terminal	Terminal to be handled.	
	Enter an asterisk (*) and press ENTER to select a terminal from a list of active terminals.	
Stop	Mark this field with any character to stop activity monitoring for the selected terminal.	
Start at	Modify the date and time to specify when the display of activities will restart. For valid input values, see <i>Date and Time Formats</i> in the <i>User's Guide</i> .	
Interval	Interval, in seconds, between updates of the automatic display for the selected terminal.	

See Monitoring Entire Operation Activities in the User's Guide for details.

Removal of All Monitor Commands

This function removes all internal commands from the internal Entire Operations Monitor command queue.



Caution: Use this function only in case of emergency and with extreme care.

> To remove all Monitor commands

1 On the **Special Function Selection screen**, mark **Removal of all Monitor Commands** with any character and press ENTER.

A window similar to the following opens:

2 Confirm the removal by entering MONITOR COMMAND and pressing ENTER.

Deactivation in Foreground

Usually, job deactivation is triggered in the foreground and executed by the Entire Operations Monitor in the background.



Caution: Use this function to deactivate active jobs in the foreground only in case of emergency, and if the Entire Operations Monitor is not active.

To deactivate jobs

1 On the **Special Function Selection screen**, mark **Deactivation in Foreground** with any character and press ENTER.

A window similar to the following opens:

2 Confirm deactivation by entering DEACTIVATION and pressing ENTER.

System File Adaptations for New Version

The Entire Operations system file is usually automatically modified to the needs of a new version of Entire Operations at the first startup of the Entire Operations Monitor. The modification can be forced online by this function.

To perform data adaptation

1 On the Special Function Selection screen, mark System File Adaptations for new Version with any character and press ENTER.

A window similar to the following opens:

2 Confirm system file adaptation by entering SYSTEM FILE and pressing ENTER.

JCL File Password: Global Exchange

The JCL File Password: Global Exchange function allows the system administrator to exchange the file password for all definitions of a given file. This function should be used after the modification of a file password on the operating system level.

To exchange the JCL file password

On the Special Function Selection screen, mark JCL File Password: Global Exchange with any character and press ENTER.

A window similar to the following opens:

```
Global File Password Exchange

JCL Node ===> _____
File ===> ____|
Password ===>

PF1 Help PF3 End
```

Enter the required values. The input fields are explained in *Fields: Global File Password Exchange*.

This section covers the following topics:

■ Fields: Global File Password Exchange

Fields: Global File Password Exchange

Field	Meaning	
JCL Node	Number of the Entire System Server node on which the file can be accessed.	
File	The password for the file specified here will be exchanged in all job definitions.	
Password	The new replacement password (invisible when entered).	
	This password must then be used when editing or selecting members, as well as for JCL loading of the Monitor.	

Force Prerequisite Check for Jobs in Passive Wait

This function forces an active prerequisite check for all jobs which have been set to the status passive wait.

> To force a prerequisite check

On the Special Function Selection screen, mark Force prerequisite check for jobs in Passive Wait with any character and press ENTER.

A window similar to the following opens:

```
Please confirm
Force prerequisite check
by entering FORCE
==>
PF3 End
```

2 Confirm the prerequisite check forcing by entering FORCE and pressing ENTER.

Pending Tasks

This function shows unfinished file deletion requests from deactivation.

The main reason is a file in use error during a delete attempt.

Pending tasks are deleted during the next database cleanup (see the relevant section).

To view all pending tasks

 On the Special Function Selection screen, mark Pending Tasks with any character and press ENTER.

If any tasks are pending, a **Pending Tasks** screen appears with a list of all pending tasks.

Otherwise, a message is returned indicating that no tasks are found.

The screen columns are explained in *Columns: Pending Tasks*.

Columns: Pending Tasks

The columns of the **Pending Tasks** screen are described in the following table:

Column	Meaning	
Owner	Owner of the affected network.	
Network	Network that contains the affected job.	
Run	Run number of the affected job.	
Job	Job that references the affected file.	
Type	Type of delete request. Possible values:	
	0	Online or Monitor request.
	В	Batch cleanup.
Hours Wait	Hours since the delete request is pending.	
File	File affected by the delete request.	

15 RPC Server Defaults

Defining RPC Server Defaults for SSL Communication	14	8
Usage of SSL TRUST_STORE		
Further RPC Server Considerations		

The Entire Operations GUI Client uses an RPC server. Some definitions for the RPC server can be made here.

Defining RPC Server Defaults for SSL Communication

- > To define the SSL trust store file
- 1 From the System Services Menu, select the RPC Server Defaults option and press ENTER.

An **RPC Server Defaults** screen similar to the example below appears:

```
18-07-11 ***** Entire Operations ***** 09:57:35
RPC Server Defaults

SSL TRUST_STORE
/test/ogc-test/keyfile.pemSAGxxx_
(required if RPC communication shall use SSL)

Command =>

Enter-PF1--PF2--PF3--PF4--PF5--PF6--PF7--PF8--PF9--PF10--PF11--PF12--
Help End Save
```

- 2 Enter the name of the file that contains the valid SSL key. See also *Usage of SSL TRUST_STORE*.
- 3 Choose PF5 (Save) to save the entry.

Usage of SSL TRUST_STORE

The SSL TRUST_STORE field definition is required if the RPC communication uses SSL.

If the RPC server and the EntireX Broker should communicate via SSL, an SSL parameter string has to be committed during the startup of the EntireX Broker. This string is located within the **SSL TRUST_STORE** and contains a valid SSL key. For this purpose, the Natural program NOPSSL1P in the library SYSEOR is executed during the startup of the RPC server.

The following description assumes that the EntireX Broker and the RPC server are installed in a UNIX environment.

- For a general description of the Natural RPC server with SSL, refer to the section *Using Secure Socket Layer* in the *Natural RPC (Remote Procedure Call)* documentation.
- You must define SSL certificates, e.g., with openssl. Refer to the section *SSL* or *TLS* and *Certificates* with EntireX in the webMethods EntireX documentation.
- Invoke the RPC Server Defaults, and define the SSL TRUST_STORE file.
- The Natural profile parameter SRVNODE (on mainframes, the keyword subparameter SRVNODE of the profile parameter RPC) must contain the string : SSL, or it must start with //SSL:
- During the startup of the Entire Operations GUI Client RPC server, the Natural program NOPSSL1P must be executed. This module creates and sets the SSL parameter string.

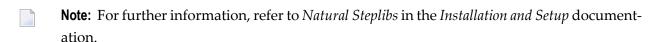
Example for an Entire Operations GUI Client server startup in a shell script:

```
natural parm=nopparm mainpr=10 \
server=on trace=0 \
srvname=NOP51S11 "srvnode=pcsn2:1958:SSL" \
"stack=(logon syseor;nopsls-p;nopssl1p" \
>/dev/null /null &
```

In Entire Operations GUI Client, make sure that the EntireX Broker service is invoked correctly. Nothing else special is to be done to use SSL communication.

Further RPC Server Considerations

To make sure that the correct Natural steplibs are being set in the RPC server, it is recommended to execute the Natural program NOPSLS-P during RPC server startup.



If Natural Security is installed on the server and server library SYSSAT is protected, the Entire Operations GUI Client user has to be linked to the library SYSSAT or he has to be a member of a group which possesses a link to SYSSAT.

16

Entire Operations Files

The **Entire Operations Files** screen shows all Natural system files used in your current Entire Operations environment.

The **DBID** (database ID) and **FNR** (file number) fields indicate the file location. The values in these fields are taken from the LFILE parameter settings for your current Natural session. They are also used to (re)start the Monitor (see the **Entire Operations Monitor** function).

The following information is provided on the **Entire Operations Files** screen:

Field	System File Description
NOP System File	Contains definitions required by Entire Operations (NOP).
SAT Log File	Contains log files for Systems Automation Tools (SAT).
Accounting	Contains accounting data about network and job executions (see also <i>Example of Accounting Information</i> in the <i>User's Guide</i>) and the Monitor (see <i>Monitor Accounting</i>).
SAT Event Store	Contains definitions required for the event store of Systems Automation Tools (SAT); optional.
Entire Output	Contains definitions required for Entire Output Management (optional).
Management	
FNAT	Contains definitions required for base Natural.
	The DBID and FNR to be used are specified with the Natural FNAT profile parameter (see the relevant description in the Natural <i>Reference</i> documentation).
FUSER	Contains definitions required for base Natural.
	The DBID and FNR to be used are specified with the Natural FUSER profile parameter (see the relevant description in the Natural <i>Reference</i> documentation).
FSEC	Contains definitions required for Natural Security.
	The DBID and FNR to be used are specified with the Natural FSEC profile parameter (see the relevant description in the Natural <i>Reference</i> documentation).