

Definition of Nodes

This section covers the following topics:

- Accessing the Operating System Server Table
- Adding a Node Definition
- UNIX and Windows Node Definitions
- Modifying a Node Definition
- Deleting a Node Definition
- Special Definitions for a Node (OS/390)
- Special Definitions for a Node (UNIX and Windows)

Accessing the Operating System Server Table

- Line Commands: Operating System Server Table
- Column Headings: Operating System Server Table

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.

To define nodes to Entire Operations

- Select the option **Definition of Nodes** from the System Services Menu.

The Operating System Server Table appears with a list of nodes which have already been defined:

```

03.01.02          *** Entire Operations 4.1.1 ***          13:19:38
Owner REQUEST          Operating System Server Table
-----
          Wait after          VSE
Cmd Server Name          Node Op.Sys. Error SSU SysId Time Diff. Valid
_   on F-MC              134 MVS/ESA  5          M          yes
_   RZ SAG                145 MVS/ESA  5          M          no
_   EOR Dev F-MC         146 MVS/ESA  5          M          yes
_   F-MC                  148 MVS/ESA  5          M          yes
_   DUEVSE                193 DOS/ESA  5          M          yes
_   BS2000 DAE           194 BS2000  5          M          yes
_   Sagna SHost          206 MVS/ESA  5          M          yes
_   G-Machine            248 MVS/ESA  5          M          yes
_   DEMOCO                249 MVS/ESA  5          M          yes
_   npr_nt_pcwkk         401 WIN/NT   5          M          yes
_   npr_nt_pcgfr         402 WIN/NT   5          M          yes
_   npr_nt_pcsn          403 WIN/NT   5          M          yes
-----
D Delete  M Modify  S Specials

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help  Add   End       Save       Up       Down       Menu

```

If no nodes are defined, the list is empty.

Note:

Node numbers from 1 to 255 represent mainframe (OS/390, VSE/ESA or BS2000/OSD) nodes. All other node numbers represent UNIX or Windows nodes.

Line Commands: Operating System Server Table

Cmd	Description
D	Delete node definition.
M	Modify node definition.
S	Specials (UNIX and Windows nodes only). Opens a window.

Column Headings: Operating System Server Table

Meaning of the column headings:

Column	Meaning				
Server Name	User-defined node name.				
Node	Entire System Server or UNIX node number.				
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.E.	Wait after error. Time in minutes to wait until next node access after a temporary error.				
VSE/ESA Sysid	The SYSID defined for a VSE/ESA node is added to the job card of jobs submitted on this node.	SSU	Submit Security User Type. If empty, the system-wide default is in effect for this node.		
Time Diff.	Time difference between local time and GMT in hours if node is in a different time zone.				
Valid	Possible values:				
	yes	Node can be used.			
	no	Node has been disabled.			

You can maintain node definitions using the available line commands and PF keys.

The following subsections describe the functions you can perform.

Adding a Node Definition

- Field Descriptions: Node Definition

To add a node definition

- Press PF2 (Add) from the Operating System Server Table.

A window opens in which you can enter the node definition:

```

03.01.02          *** Entire Operations 4.1.1 ***          13:19:38
Owner REQUEST          Operating System Server Table
-----
          Wait after      VSE
Cmd Server Name      Node Op.Sys.  Error  SSU   SysId  Time Diff.  Valid
-   on F-MC          134  MVS/ESA  5
-   RZ SAG +-----+
m   EOR De !
          Node Modification
-   F-MC !
-   DUEVSE !
-   BS2000 !      Node Number ==> 146      MVS/ESA
-   Sagna !      Node Name ==> EOR Dev F-MC_____
-   G-Mach !     Time Difference ==> _____
-   DEMOCO !     VSE SysId ==> _
-   npr_nt !     Wait after Error ==> 5__ min.
-   npr_nt !     Submit Security User Type ==> M
-   npr_nt !     Valid ==> Y
----- !
D Delete !
          ! PF1 Help   PF3 End
          !
Command => +-----+
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help  Add   End       Save       Up     Down          Menu
    
```

Field Descriptions: Node Definition

Meaning of the input fields:

Field	Meaning	
Node Number	Numbers 1 to 255 : Entire System Server (mainframe) node number. Numbers 256 and above: Identifier for UNIX/Windows node (server).	
Node Name	Unique, user-defined node name. For node numbers 1 to 255 : enter a short description to help the user select an appropriate node for network or job run. For numbers 256 and above: enter the name of a UNIX or Windows node (server) as it appears in the SAT and Entire Broker definitions. This field is case-sensitive.	
Time Difference	Difference between local time and GMT in hours if node is in a different time zone. Input format: <i>xn</i> , where:	
	<i>x</i>	is a plus or minus sign (+ or -) and
	<i>n</i>	is any number from 0 to 12 .
VSE/ESA Sysid	This ID is added to the job cards of jobs submitted on this node. Range: 1 to 9 .	
Wait after Error	Time in minutes to wait until next node access after a temporary error. Default: 5 minutes.	
Submit Security User Type	The submit security user type can be set individually for each node. If this field is left blank, the global default will apply to this node. Please refer to the Monitor Defaults for the possible values of this field.	
Valid	You can disable the use of a node. Possible values:	
	Y	Allow use of node.
	N	Disable use of node.

- Press Enter to save the node definition.
- Press PF3 (End) to return to the list of nodes.

The new node should now appear in the list.

UNIX and Windows Node Definitions

UNIX and Windows nodes (i.e. NPR servers) must be defined in the following locations as well:

- SYSSATU / SATSRV (see the subsection SAT in Client/Server Environments in the SAT Installation Documentation.)
- Entire Broker parameters. You can omit these definitions for the Monitor node, if this node is accessed in local mode (see explanation of field Type).
- Entire System Server/UNIX or Windows initialization file **npr.ini** (see Step 4: Customize the NPR Server).

Modifying a Node Definition

To modify a node definition

1. Enter **M** in the line command input field of the selected node in the Operating System Server Table and press Enter.

The Node Definition window opens with the current definition.

2. You can modify the definition by overtyping the current values.
3. Press Enter to save the modifications.
4. Press PF3 (End) to close the window and return to the Operating System Server Table.

Deleting a Node Definition

▶ To delete a node definition

1. Enter **D** in the line command field of the selected node in the Operating System Server Table and press Enter.

A window opens in which you can confirm deletion by entering the node number.

2. Enter the node number and press Enter to perform the deletion and close the window.

Special Definitions for a Node (OS/390)

▶ To add a special definition for an OS/390 node

- Enter **S** (Specials) in the line command field of the selected OS/390 node in the Operating System Server Table and press Enter.

The following window opens:

```

03.01.02                *** Entire Operations ***                14:17:22
Owner EXAMPLE          Operating System Server Table
-----
Cmd  Server Name      Node  Op.Sys.  Wait a.E.  VSE SysId  Time Diff.  Valid
-   -
_   G-Machine         248  MVS/ESA  5
_   npr_hppcc         501  HP-UX    1
_   npr_si8           502  SINIX-P  5
-----
+-----+
!                                     !
!               Node: Special Definitions           !
!                                     !
!           Number ==> 148      MVS/ESA             !
!           Name ==> F-MC                                     !
!                                     !
! Mail Destination ==> DAEF_____                 !
! Mail Sysout Class ==> B                               !
!                                     !
! PF1 Help   PF3 End   PF5 Save                     !
+-----+
Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Add   End   Save           Up   Down           Menu
    
```

Meaning of the input fields:

Field	Meaning
Mail Destination	The destination to be used for e-mail messages, which are sent from OS/390 via SMTP.
Mail Sysout Class	The sysout class to be used for e-mail messages, which are sent from OS/390 via SMTP.

Special Definitions for a Node (UNIX and Windows)

▶ **To add a special definition for a UNIX or Windows node**

- Enter **S** in the line command field of the selected UNIX or Windows node in the Operating System Server Table and press Enter.

The following window opens:

```

03.01.02          *** Entire Operations ***          14:17:22
Owner EXAMPLE          Operating System Server Table
-----
Cmd  Server Name      Node  Op.Sys.  Wait a.E.  VSE SysId  Time Diff.  Valid
_   G-Machine         248  MVS/ESA  5          5          5          yes
_   npr_hppcc         501  HP-UX    1          1          1          yes
_   npr_si8           502  SINIX-P  5          5          5          yes
+-----+
!                                     !
!               Node: Special Definitions           !
!                                     !
!           Number ==> 403      WIN/NT              !
!           Name ==> npr_nt_pcaaa                    !
!                                     !
!   Default Userid ==> AAA_____                  !
!   Print Command ==> type :f: >lpt3_____          !
- !   Message Command ==> wsendmail "-s:u:" "-f:s:" :r: :f:_____ ! -
!                                     !
!   PF1 Help   PF3 End   PF5 Save                   !
+-----+
Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Add   End       Save       Up       Down       Menu
    
```

Meaning of the input fields:

Field	Meaning
Default Userid	The (UNIX or Windows) user ID will be used by the monitor for actions which do not depend on a specific network or job.
Print Command	The print command (UNIX or Windows) for sysout files on this node. :f: will be replaced by the file name. Example: lp -dxxxx :f:
Message Command	The message send command (Windows only). This command is used to send a user message out of Entire Operations. Replacements: <ul style="list-style-type: none"> • :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. Example: wsendmail "-s:u:" "-f:s:" :r: :f: (parameters must be quoted if they may contain blanks)

