

NOP in Client/Server Environments

This subsection covers the following topics:

- Accessing UNIX/Windows Machine from Mainframe
 - General Prerequisites
 - Required Parameter Definitions
 - Example Scenario
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Accessing UNIX/Windows Machine from Mainframe

With Version 2.1.1, Entire Operations can be run in mixed mainframe/UNIX or, from Version 3.1.1 onwards, in Windows environments.

To access a UNIX or Windows machine from mainframe

- You must define services and nodes on both mainframe and UNIX or Windows systems.

For information on defining UNIX or Windows nodes within Entire Operations, see the subsection UNIX and Windows Node Definitions. This describes where to define corresponding services and Entire Broker parameters.

General Prerequisites

Make sure that the following INCLUDE statement has been added to the linkage of the Natural batch/subtask module (see also Step 4: Link a Natural Subtask/Batch Module in the SAT Documentation):

- INCLUDE ETBLIB(NATETB)

Required Parameter Definitions

In order for you to work with Entire System Server nodes on UNIX and Windows, the following definitions must be present:

- On the platform where the Entire Operations online system and monitor are running - in the Natural member SATSRV in the SYSSATU library:

Definition	Comment
BROKER-ID=	
SERVER-CLASS=NPR	(must be NPR)
SERVER-NAME=	(in upper case)
SERVICE=<service>	(in lower case)

For more information on SATSRV, see the heading SATSRV Parameters in the subsection SAT in Client/Server Environments of the SAT Documentation.

- For Entire Broker, in the attribute file:

Definition	Comment
BROKER-ID=	
CLASS=NPR	(must be NPR)
SERVER=	(in upper case)
SERVICE=<service>	(in lower case)

These definitions must be created on the platform where the Entire Broker is installed (either mainframe or UNIX or Windows). For more information on the customization of the Entire Broker attribute file, see Step 4.

- For the file **npr.ini**, located on the UNIX or Windows system being addressed:
 - the same values as for Natural, above, are used;
 - the service name <service> is written within angle brackets. The attributes follow this.

Definition of the Entire System Server/UNIX or Windows initialization file **npr.ini** is described in Step 4: Customize the NPR Server.

- On the UNIX or Windows system being addressed, the Entire System Server must be active.

UNIX:

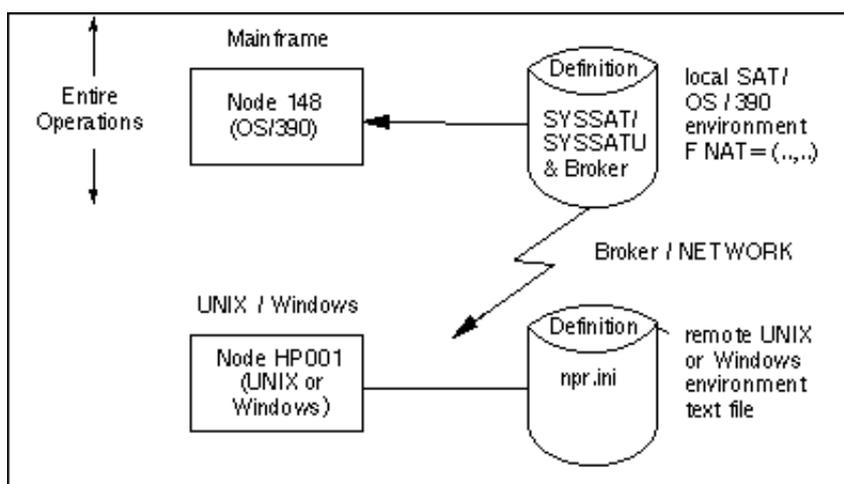
To activate it, start **nprmgr**, then enter the command **start service <service>**. For details, see the subsection Starting the Server of a UNIX Service.

Windows:

To activate it, choose Control Panel (Systemsteuerung). Then choose Services (Dienste). Then choose Entire System Server (standard) or Entire System Server (with R/3).

Example Scenario

- Mainframe Definitions for this Example
- Middleware Definitions for this Example
- Server Definitions



Mainframe Definitions for this Example

SYSSATU/SATSRV

In the member SATSRV in the library SYSSATU, a section must exist starting with:

```
<node name> SATSRV TYPE=ACI
```

In this line, <node name> must be replaced by the identifier specified in the corresponding field when defining the node within Entire Operations (see field Node Name). The required definitions for the above example would be read as follows:

```
demonode SATSRV TYPE=ACI
                    BROKER-ID= BKR034
                    SERVER-NAME= HP001
                    SERVER-CLASS= NPR
                    SERVICE= nprdemo
.
.
```

Middleware Definitions for this Example

These definitions apply either to mainframe or UNIX or Windows.

Entire Broker Attribute File

The following is an example for Entire Operations with:

```
SERVER = HP001
CLASS = NPR
SERVICE = nprdemo
.
.
```

Server Definitions

The following definitions in the file **npr.ini** apply to a UNIX or Windows system. They are required for the example above:

```
[nprdemo]
```

```
Local_node = HP001
Integration_Mechanism = ETB,BKR034
.
.
```