SYSTEMS MANAGEMENT

System Automation Tools

Installing SAT / UNIX

Version 3.1.2

software AG

This document applies to Version 3.1.2 of System Automation Tools. Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

Table of Contents

Installing SAT / UNIX

This section describes System Automation Tools (SAT) and its installation on UNIX platforms.

It covers the following topics:

- Overview
- Installation of Application SYSSAT
- SYSSAT Library Files

Overview

- Prerequisites
- Environment Variables
- Directory Structure
- Main Menu

Prerequisites

- **Memory**
  There is no specific memory requirement for operating the product;
- **Disk Space**
  The application SYSSAT requires approximately 4 MB of disk space during operation. At installation time, double the amount should be available.
- **Operating System**
  The UNIX operating system available on the selected platform;
- **Other Software AG products**
  Natural for UNIX, Version 3.1.1 PL 1 or above;
  Adabas for UNIX, Version 2.2.3 or above.

Environment Variables

The following environment variables must exist and must point to valid directories:

Environment Variable	Explanation
SAG	Installation directory for Software AG products
ADADIR	Adabas base directory
ADAVERS	Adabas version subdirectory
NATDIR	Natural base directory
NATVERS	Natural version subdirectory

The existence of these directories is checked during the installation.

In addition, the following environment variables must be defined:

Environment Variable	Explanation
SATDIR	SYSSAT base directory (default: $SAG/sat)
SATVERS	SYSSAT version subdirectory

These variables will be temporarily set to their correct values by the installation script. Their setting should be integrated in any **sagenv** file after the installation.

For the correct setting of the NATUSER environment variable, see the subsection SYSSAT Library Files.

Directory Structure

After unpacking the **cpio** installation file, the following System Automation Tools directory structure is generated:

SAG				$SAG
	sat			$SATDIR
		V232		$SATVERS
			INSTALL	Installation script directory
			lib	Special library files for System Automation Tools

The following table outlines the contents of the System Automation Tools version directories:

$SATDIR/$SATVERS Directory

Directory	Explanation
INSTALL	Directory containing the shell scripts and other files to be used during the installation of System Automation Tools.
lib	This directory contains some special library files for System Automation Tools. See the subsection SYSSAT Library Files.

File	Explanation
inpl.sag	Input file for the Natural INPL. Used during installation only.

Main Menu

Loading the **cpio** file:

```
cd $SAG
cpio -icvdBm <satv232.cpio
```

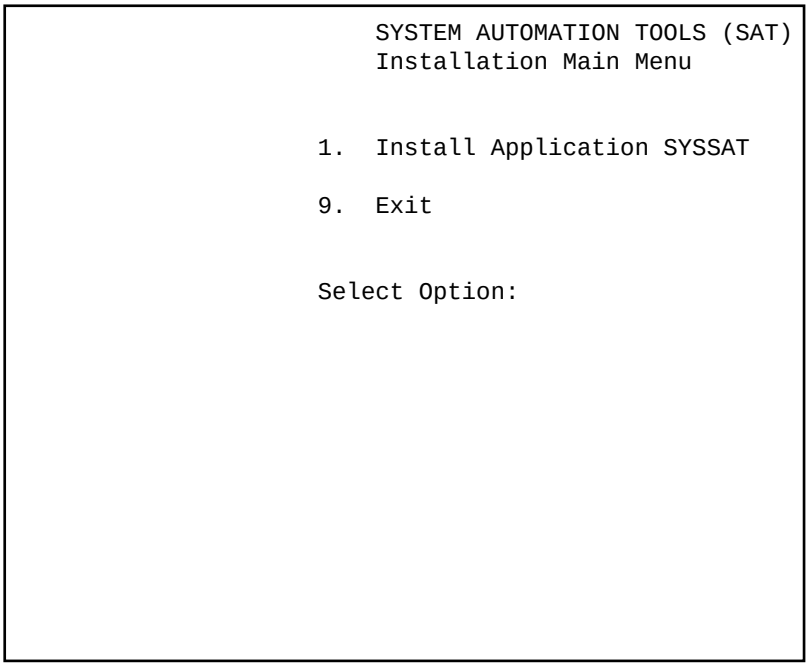
The directory structure for SYSSAT will be created.

To invoke the installation menu

- Use

```
setenv SATDIR $SAG/sat
setenv SATVERS v232
cd $SATDIR/$SATVERS/INSTALL
inssat.bsh
```


The following menu appears:



Installation of Application SYSSAT

- Menu-driven Installation
- After Execution of the Shell Script
- Customizing the SATSRV Text Member
- Accessing Services via Entire Broker
- Accessing Local Service

This menu item contains the creation of the application SYSSAT in your Natural FNAT directory. In addition, the shared library will be copied automatically to NATEXTLIB.

Before you perform this step:

- Make sure that enough disk space is available in the target environment.
- Make sure that you have write access rights to the Natural FNAT directory, as well as to the directory specified by the NATEXTLIB parameter within the local configuration file NATURAL.INI (see **Path to Binary Libraries of Software AG Products** in the related section of the **Natural Installation and Operations Documentation for UNIX**).

Menu-driven Installation

To invoke the installation menu

- Use:

```
cd $SATDIR/$SATVERS/INSTALL
inssat.bsh
```


After Execution of the Shell Script

- Modify the setting of the environment variables SATDIR, SATVERS, SAT_LIB and NATUSER so that they conform with the variables generated in the **satenv** script, or invoke **satenv** in your logon scripts. The **satenv** script can be found in the INSTALL subdirectory.
- Create a Natural text member SATSRV as described in the following section.

Customizing the SATSRV Text Member

You must customize the SATSRV text member in the Natural library SYSSATU to contain the required parameter definitions for System Automation Tools. Example definitions can be found in the member SATSRVEX in the SYSSATU library:

```
* Example of a service definition (via Entire Broker)
*
<node_nam1> SATSRV TYPE=ACI
            BROKER-ID=<broker-id>
            SERVER-CLASS=NPR
            SERVER-NAME=<SERVER>
            SERVICE=<service_nam1>
            USER-ID=<SERVER>
            WAIT-TIME=30S
```

```
*
* Example of a service definition (local mode)
*
<node_nam2> SATSRV TYPE=ACI
            BROKER-ID=IDLE
            SERVER-CLASS=NPR
            SERVER-NAME=LOCAL
            SERVICE=<service_nam2>
            USER-ID=<SERVER>
            WAIT-TIME=30S
```

Note for Entire Operations:
In each of the above blocks, the identifier denoted by <node_namx> must correspond to the node name specified in the Entire Operations node table (see the section Definition of Nodes in the section System Administrator Services of the Entire Operations Administration Documentation), and the specified <service_namx> must correspond to a section name within the **npr.ini** file on the target system. It is recommended (but not required) that you choose the same identifiers for node names and service names, that is for <node_namx> and for the corresponding value of <service_namx>.

If you are installing System Automation Tools for the first time, proceed as follows:

1. Invoke Natural.
2. Log on to the SYSSATU library.
3. Issue the direct command: E SATSRVEX.
4. Adapt the parameter definitions.
5. Enter the command: SAVE SATSRV.
6. Press Enter.

For information on how to use members with different names, see the section SAT in Client/Server Environments.

Accessing Services via Entire Broker

For each service that is to be accessed, you need one section of parameter definitions. The first section within the member SATSRVEX can be used as a template for this purpose. For further information, see the section SAT in Client/Server Environments.

Accessing Local Service

To access a service in local mode (without using Entire Broker), certain parameter definitions are required. Copy the second section of the example in the member SATSRVEX into the member SATSRV and replace **service_nam2** with a name of your choice.

SYSSAT Library Files

Environment Variable	Explanation
natsat.*	A shared library, whose complete path must be appended to the NATUSER environment variable after the installation, if your Natural version is lower than 2.2.1 PL22. This shared library is required for the execution of ESM Natural applications. The name suffix is: **.sl** for HP-UX and **.so** for AIX and SINIX.

