

System Automation Tools 3.1.3 Release Notes

This section covers the following topics:

- Introduction
 - Migrating from Previous Versions
 - Prerequisites
 - Compatibility and Migration
 - SAGSIS Problems
 - Enhancements and New Features
-

Introduction

These Release Notes inform you of the enhancements and new features that are provided with System Automation Tools Version 3.1.3.

If not mentioned in separate release notes, the notes apply to all supported operating systems: OS/390, VSE/ESA, BS2000/OSD, UNIX (HP-UX, Reliant Unix, AIX, Sun Solaris) as well as Managed Nodes under Windows (Intel).

Migrating from Previous Versions

Migration of Data

No migration is required for updates from SAT 3.1.2.

Prerequisites

System Automation Tools 3.1.3 requires

- Adabas Version 7.1.2 or above (on UNIX Version 3.1 or above);
- Natural Version 3.1.6 or above, including the Software AG Editor component (on UNIX Version 5.1 or above);
- Entire System Server Version 3.1.2 or above (if JES3 is installed, NPR 2.2.2 is supported);
- Entire System Server for Unix 2.1.1.05 and above (optional);
- Natural Security (same as NAT) (optional); for UTM users under BS2000/OSD Natural Security is required;
- Entire Network 5.6.1 or above (optional, for multi-CPU support).

Compatibility and Migration

With the release of System Automation Tools 3.1.3, versions below 3.1.2 can no longer be supported. You are, therefore, strongly advised to switch to the current version at your earliest convenience.

SAGSIS Problems

All solved problems of Version 3.1.2 and below are included in this release.

Enhancements and New Features

- Sending E-mail via z/OS Entire System Server Nodes
- Minor Enhancements
- RPC Servers
- RPC Parameters in SATPnnn member

Sending E-mail via z/OS Entire System Server Nodes

Starting with SAT 3.1.3, the Entire System Server view SEND-EMAIL is used by Entire System Server nodes with versions greater than or equal to 3.2.1. for sending e-mail on z/OS.

The products NOP and NOM use a common routine for sending e-mail with SAT. This means that these products send their e-mail on z/OS Entire System Server nodes via SEND-EMAIL, if both SAT 3.1.3 and Entire System Server 3.2.1 are used.

For the additional parameters, additional definitions, and JCL changes necessary for the usage of the SEND-EMAIL view, refer to the Entire System Server 3.2.1 documentation.

If a security system is used on z/OS, the user IDs and the started task of the Entire System Server node must be authorized to send e-mail.

If Entire Operations 4.1.1 is installed, the following are prerequisites for sending e-mail on z/OS nodes:

- NOP 4.1.1 Service Pack 6
- Solution for Sagsis Problem 240056 (you can view the problem description in ServLine24 with "docid 504487".)

Minor Enhancements

A server part has now been integrated to manage calls received from ESM PC applications like Mainframe Navigator and NOM GUI Client.

Error handling has been improved to show more detailed error information.

RPC Servers

If an ESM PC product is installed, which is connected to a mainframe monitor (like NOM GUI Client) it may be useful to start several RPC servers in parallel to balance data traffic. This could be done by starting several Natural RPC servers as batch jobs, but administration is easier, if start and stop is controlled by SAT. For this purpose we have created:

- **a new product code 'RPC'** for SAT to start and stop Natural RPC servers like monitors started for NOM or NOP. This means that RPC servers will come up when NPR is started and be ready for use until NPR stops;
- **a new NPR console command 'SHUTDOWN RPC'** to end all RPC servers started by SATSTART;
- **an extra task 'WATCHDOG'**: since no Natural program is executed in a Natural RPC server, we need an extra task that controls start and stop procedures. This task issues the control commands to shutdown RPC servers, triggered by NPR (at shutdown time of NPR or if a 'SHUTDOWN RPC' command occurs).

RPC Parameters in SATPnnn member

Following parameter blocks are available for running RPC servers:

- Table of Parameter Blocks and Parameters
- SAT Environment Settings
- Parameter Example
- Natural parameter profile example to start Natural RPC servers (SYSPARM)

Table of Parameter Blocks and Parameters

Parameter Block	Parameter	Description
NATENV		All profile parameters supported by Natural are possible. However, a Natural RPC server will need several long parameters which may exceed the line capacity of 250 within SAT. It is recommended to use a Natural parameter profile (SYSPARM), see example of Natural parameter profile below.
SATSTART	SATVERS=31	SAT version, which is supported by the product startup program. This does not necessarily reflect the currently installed SAT version - it means the version documented as prerequisite for the specific product.
	PRODUCT=RPC	3-byte code
	PREFIX=111	PRODUCT and PREFIX are compressed into a prefix which identifies the server-specific parameters. If more than one RPC environment is to be created, another prefix has to be used.
	TYPE=BATCH/SUBTASK	Start server as a batch job or subtask.
	APPLLIB=SYSSAT	Name of the Natural library where SAT is installed.

SAT Environment Settings

RPC111	SATENV	NATTASK=	Name of subtask which executes RPC servers (depending on parameter 'TYPE=')
		NATBATCH=	Name of batch job which executes RPC servers (depending on parameter 'TYPE=')
		NUMTASK=	Number of RPC servers to be started.
		SRVNAME=	Name of RPC server as known by the broker.
		SRVNODE=	Name of the broker which manages the RPC servers.
		PROFILE=	Natural parameter profile to be created with Natural utility SYSPARM. This profile will be used to run WATCHDOG.

Parameter Example

```

* -----
*   S A T   E N V I R O N M E N T   P A R A M E T E R S
* -----
RPC111 SATENV NATTASK=NATBAT31
          NUMTASK=4
          SRVNAME=SAT31SRV
          SRVNODE=BROKER
          PROFILE=WATCHDOG
* -----
*   N A T U R A L   E N V I R O N M E N T   P A R A M E T E R S
* -----
*
RPC111          NATENV PROFILE=RPC111,AUTO=OFF
*
* -----
* START RPC Server, Product ID 'RPC'
* -----
SAT SATSTART  SATVERS=31,
              PRODUCT=RPC,
              PREFIX=111,
              TYPE=SUBTASK,
              APPLLIB=SYSSAT

```

Natural parameter profile example to start Natural RPC servers (SYSPARM)

```

ASIZE=48 , DATSIZE=50 , DSIZE=8 ,
RPC=( SERVER=ON , ACIVERS=4 , SIZE=32 , SRVNODE=BROKER , SRVNAME=SAT31SRV ,
TIMEOUT=59 , TRACE=1 , MAXBUFF=28 , NTASKS=1 , SRVUSER=' *NSC' )

```

Note:

The following parameters are required and should not be changed unless recommended by Software AG:

- SERVER=ON
- ACIVERS=4
- NTASKS=1 (SAT will start several servers and take care of the number of servers)
- SRVUSER='*NSC'

Replace the values of SRVNODE and SRVNAME with your Broker ID and RPC server name.