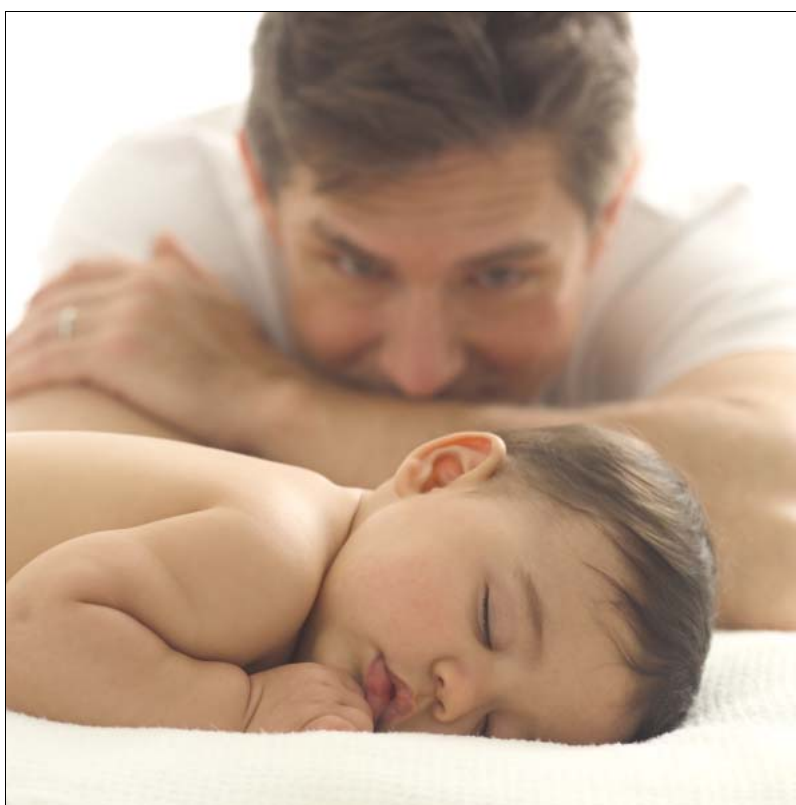


# ESA Installation Instruction

Ericsson SNMP Agent 18.0.1 ICP 18-01

## INSTALLATION INSTRUCTIONS



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# 1 About This Document

## 1.1 Purpose

The purpose of this document is to describe the installation procedure for the Ericsson SNMP Agent (ESA). Also, this document describes how to uninstall the ESA.

## 1.2 Target Group

The target group for this document is personnel responsible for the installation of the ESA.

## 1.3 Prerequisites

It is assumed that the user of this document fulfils the following prerequisites.

- Is familiar with XML.
- Has system administrator authority to the server, in which the ESA is to be installed.

## 1.4 Typographic Conventions

The typographic conventions used in this document are described in Reference [1].





## 2 System Requirements

### 2.1 Overview

To be able to install the ESA a few system requirements have to be fulfilled. The system requirements are related to:

- Hardware
- Operating Systems
- Java Virtual Machine

### 2.2 Hardware

The hardware specifications as such are no issue for the ESA. The modern hardware of today is more than enough for running the ESA.

- For Linux; x86/x64 architecture is supported.

### 2.3 Operating Systems

The figure below shows the operating environments supported by ESA

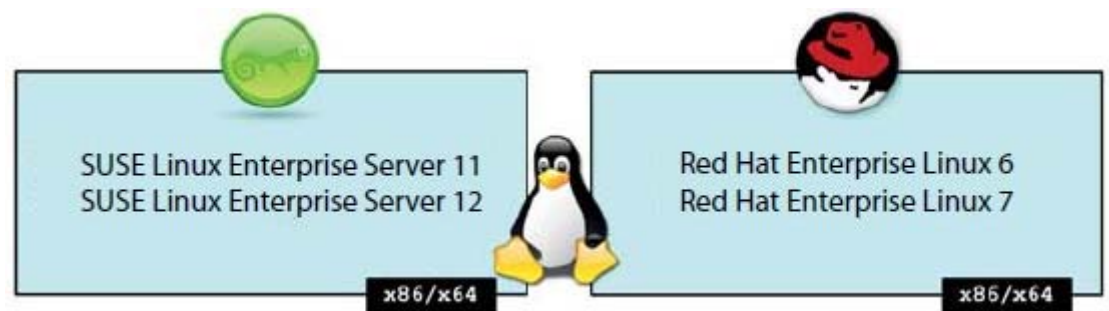


Figure 1 An overview of the ESA supported platforms.

### 2.4 Java Virtual Machine

In order to run the ESA, a Java Virtual Machine is required. The following are supported.

- **Oracle Java version 8 or higher**
- **OpenJDK version 8 or higher**



Other vendor's Java or lower versions of JVMs than the ones listed above are **not** supported by the ESA. Keep in mind that the ESA might work on other Java variants and versions, but it is not verified and therefore not officially supported by the ESA.

Use the following instructions to check the java version and vendor of the installed JVM on your system.

**Linux/Unix**                      **# java -version**

**Example output:**

```
java version "1.8.0_66"  
Java(TM) SE Runtime Environment (build 1.8.0_66-b18)  
Java HotSpot(TM) 64-Bit Server VM (build 25.66-b18, mixed mode)
```





## 3 ESA Software

### 3.1 Overview

The ESA software consist of software packages for the **ESA Basic Package** and software packages for the optional component; **IBM Netcool SSM**.

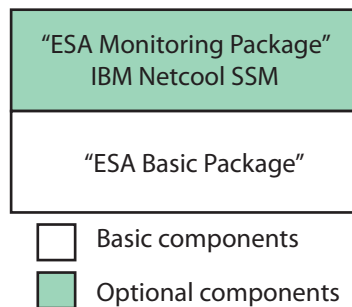


Figure 2 The ESA Product Package.

The IBM Netcool SSM package has to be separately purchased.

### 3.2 ESA Basic Package

The following software packages are for the ESA Basic Package.

— Linux: `esa-<version>.rpm`

This package is deployed on the Linux platforms RHEL and SLES.

— Unix: `esa-<version>.sh`

This package is deployed on all Unix variants, which means RHEL and SLES.

### 3.3 IBM Netcool SSM

If the SSM option has been purchased, one or several of the following packages are also to be considered during installation.

The following software packages are for the IBM Netcool SSM option. They shall be deployed in the order of appearance.

Please not that if available fix packs and/or patches for the IBM Netcool SSM component, they need to be installed separately.

— Linux x86/x64:

These packages are deployed on RHEL and SLES running on the x86/x64 platform.



- `netcool-ssm-<version>-linux-x86.installer`  
or  
`netcool-ssm-<version>-linux-x86_64.installer`



## 4 Overview

### 4.1 Installation Procedure

The ESA deployment operations are executed depending on what options have been purchased.

The following figure visualizes the deployment paths to execute.

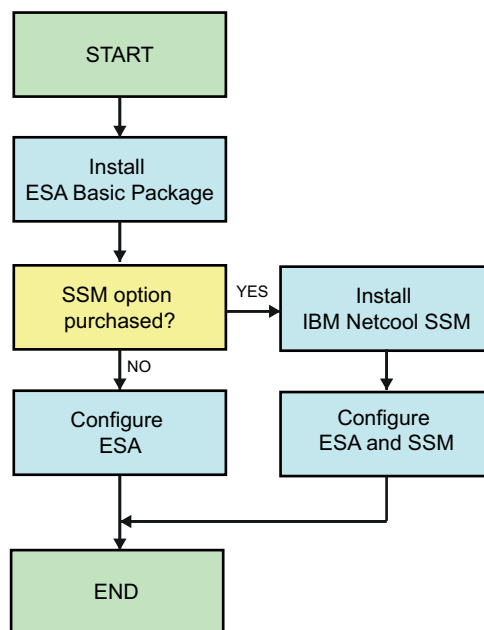


Figure 3 The deployment procedure for the ESA

Go to the following sections in this document for the following tasks.

- **Install ESA Basic Package**

Go to Section 5 on page 13.

- **Install IBM Netcool SSM**

Go to Section 6 on page 39.

### 4.2 Default Configuration

During the different installation procedures a number of questions are asked. The Custom installation has more questions than the Default installation. The Silent installation has no questions, but can take a response file that contains any number of parameters. The less questions that are asked, the more default values are given to the ESA being installed.



The following default values are used for the parameters asked for during any installation procedure.

— **Installation Directory**

Enter the full path to the directory where to install the ESA. This directory is the `{esa basedir}` used throughout the ESA documentation.

The following installation directories are usually the default, but it can vary between different OS.

Linux RPM package (\*.rpm):  
`/usr/local/esa`

Unix package (\*.sh):  
`/opt/esa`

— **FM Alarm Definition configuration directory**

Enter the full path to the directory holding the ESA FM Alarm Definition configuration files.

Default value: `{esa basedir}/conf/fmAlarmDefinitions`

— **FM Alarm Translation configuration directory**

Enter the full path to the directory holding the ESA FM Alarm Translation configuration files.

Default value: `{esa basedir}/conf/fmAlarmTranslations`

— **PM Counter Definition configuration directory**

Enter the full path to the directory holding the ESA PM Counter Definition configuration files.

Default value: `{esa basedir}/conf/pmCounters`

— **PM Job Definition configuration directory**

Enter the full path to the directory holding the ESA PM Counter Job configuration files.

Default value: `{esa basedir}/conf/pmJobs`

— **PM Threshold Definition configuration directory**

Enter the full path to the directory holding the ESA PM Counter Threshold configuration files.

Default value: `{esa basedir}/conf/pmThresholds`



— **Generic ESA log directory**

Enter the full path to the directory holding the ESA log files. This directory is the `{esa_logdir}` used throughout the ESA documentation.

Default value Linux/Unix: `/var/log/esa/`

— **PM 3GPP XML output directory**

Enter the full path to the directory holding the PM Agent 3GPP XML output files.

Default value Linux/Unix: `/var/log/esa/pm3gppXml`

— **Boot Counter Directory**

Enter the full path of the directory that will hold the `esama.bc` and `esafma.bc` files

Default: `{esa_basedir}/bin`

— **Interface Master Agent SNMP - IP Address**

Enter the IP Address for the Master Agent to bind to.

Default: `All interfaces`

— **Interface Master Agent SNMP - Port Number**

Enter the port number for the Master Agent to use.

Default: `161`

— **Interface Master Agent SNMP - Engine ID**

Enter the engine ID for the master agent to be uniquely identified by the OSS.

Default: `Empty (IP address will be used to generate the engine ID)`

— **Interface Master Agent AgentX - IP Address**

Enter the IP Address for the AgentX feature to bind to.

Default: `127.0.0.1`

— **Interface Master Agent AgentX - Port Number**

Enter the port number for the AgentX feature to use.

Default: `705`

— **Interface Master Agent RMI - IP Address**



Enter the IP Address for the Master Agent RMI server to bind to.

Default: 127.0.0.1

— **Interface Master Agent RMI - Port Number**

Enter the port number for the Master Agent RMI server to use.

Default: 7666

— **Interface FM Agent SNMP - IP Address**

Enter the IP Address for the FM Alarm Translation feature to bind to.

Default: 127.0.0.1

— **Interface FM Agent SNMP - Port Number**

Enter the port number for the FM Alarm Translation feature to use.

Default: 8162

— **Interface FM Agent RMI - IP Address**

Enter the IP Address for the FM RMI server to bind to.

Default: 127.0.0.1

— **Interface FM Agent RMI - Port Number**

Enter the port number for the FM RMI server to use.

Default: 8666

— **Interface PM Agent RMI - IP Address**

Enter the IP Address for the PM RMI server to bind to.

Default: 127.0.0.1

— **Interface PM Agent RMI - Port Number**

Enter the port number for the PM RMI server to use.

Default: 9666

— **PM Agent Delta Customize**

Enter the status of delta customization for calculating the delta value.

Default: off

— **FM Controller Alarm Clear Control**



- Enter ACC status.  
Default: on
- **FM Controller Alarm Flooding Control**  
Enter AFC status.  
Default: on
- **Community String for ReadOnly access**  
Enter the community string for ReadOnly access.  
Default value: ESA-PC
- **Community String for ReadWrite access**  
Enter the community string for ReadWrite access.  
Default value: ESA-PE
- **Trap Destination**  
Enter the trap destinations.  
Default: (empty)
- **System Information - System Name**  
Enter the name of the target system.  
Default: (empty)
- **System Information - System Name Abbreviated**  
Enter the abbreviated name of the target system.  
Default: (empty)
- **System Information - Vendor Name**  
Enter the name of the target system vendor.  
Default: (empty)
- **System Information - System Version**  
Enter the version of the target system.  
Default: (empty)
- **Autostart ESA after installation**



Enter ESA startup status after installation:

Default: **no**





## 5 Installation ESA Basic Package

### 5.1 Introduction

The installer application can run in three different modes; GUI, Console and Silent.

The following modes are the manual installation methods, which means they require human interaction.

#### — GUI

The manual and interactive Graphical User Interface (GUI) mode supports an installation process through Wizard Panels and Dialog Boxes.

Go to Section 5.2 on page 14.

#### — Console

The manual and interactive Console or Command Line Interface (CLI) mode is primarily used for remote installations over telnet, or on systems without a graphical window environment.

Go to Section 5.3 on page 31.

The following modes are unattended installation methods, which means human interaction is not needed.

#### — Silent

The silent mode do not interact with the user at all and is suitable for multiple installations that require the same configuration. The installer application runs either on the default values, or by providing a response file from which the installer application retrieves the values for various variables used to control the installation.

For multiple installations that require the same configuration you only need to provide user input once to generate a response file. This response file can then be used for any number of subsequent installations.

Go to Section 5.4 on page 32.

#### — Linux RPM

The Linux RPM installation is an installation specifically for the Linux platforms by using the RPM package format. The RPM installs the ESA with default values. Customized parameters are not possible during the installation procedure. Instead, if needed, the parameters are customized after the installation.

Go to Section 5.5 on page 37.

---

---

## Attention!

In order to run ESA 18 on Red Hat Enterprise Linux version 7.2 and 7.3, the following ERRATA **needs** to be installed: <https://rhn.redhat.com/errata/RHBA-2016-0199.html>.

---

---

## 5.2 GUI Mode Installation

The GUI installation provides three different procedures.

— **Default Installation**

This procedure is the fastest and simplest. The ESA is installed with default values for all parameters.

— **Custom Installation**

This procedure provides flexibility to the user. All parameters can be modified according to own choice of the user.

— **Create Response File**

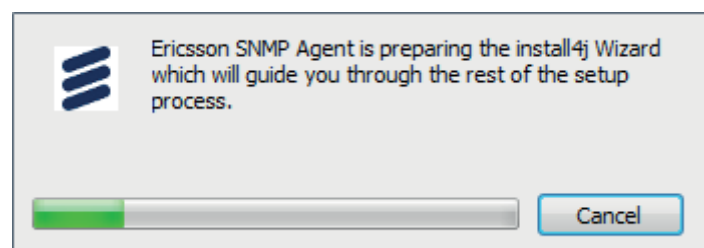
This procedure does not install the ESA software. The procedure as such is the same as the Custom Installation method, but ends with creating a response file that holds all the parameter settings specified during the procedure. The response file created can be used in the Silent Mode installation, see Section 5.4 on page 32.

The GUI mode installation procedure:

1. Login to the server where the ESA is to be installed.
2. Prepare the ESA software package(s) to install. See Section 3.2 on page 5.
3. Start the installer application in GUI mode.

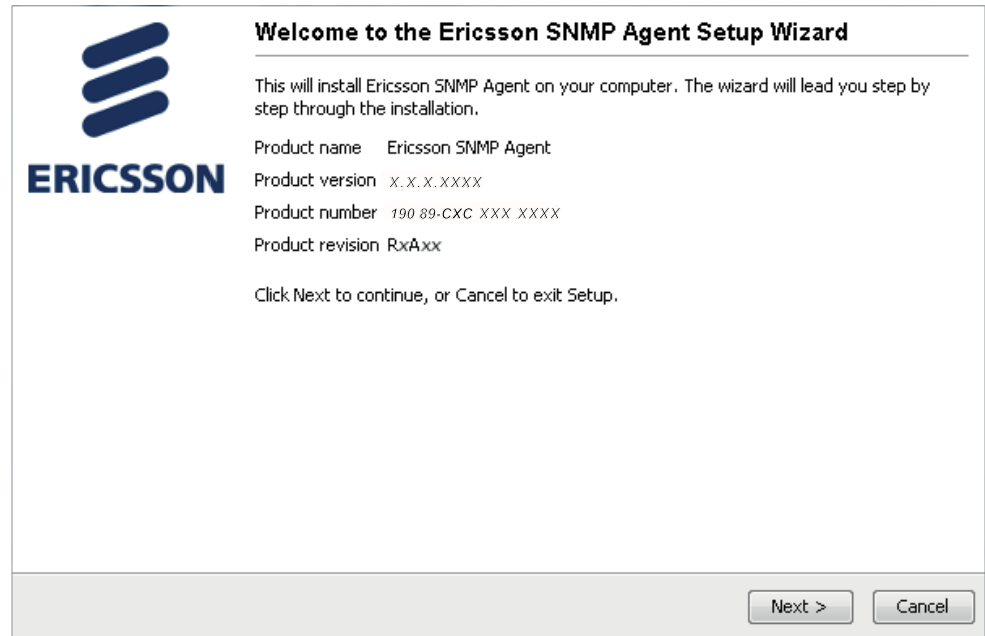
**Unix**                      `# sh esa-<version>.sh`

The installer application is preparing to install.





4. The ESA installation application starts and the ESA software information is displayed.

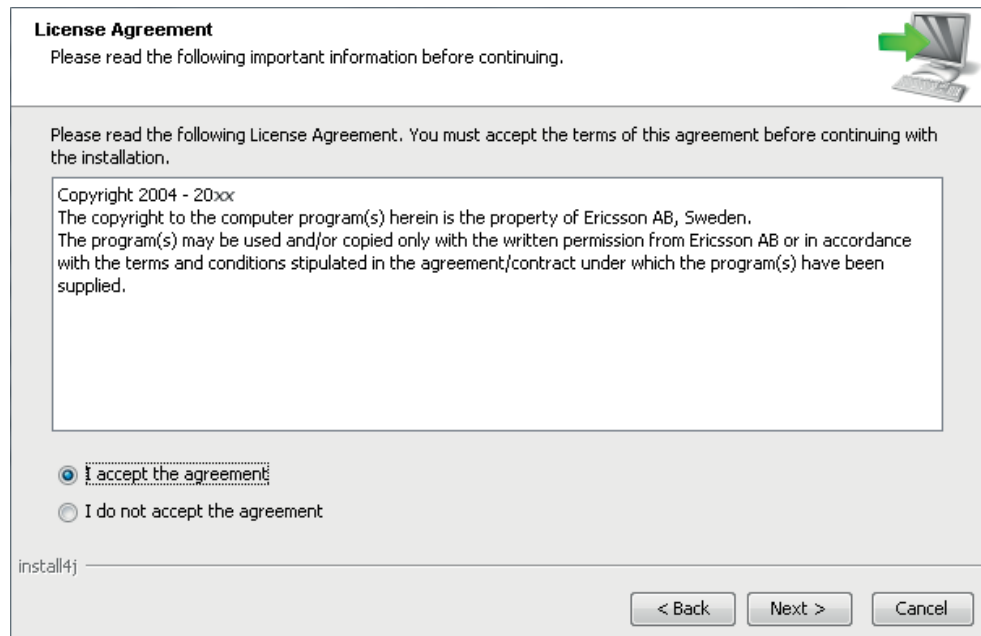


Throughout the installation process, where needed, click **Back** to return to the previous window or **Cancel** to stop the installation and leave the installation process.

Click **Next** to continue the installation process.



5. The license text is displayed.



Read the license text, make the selection **I accept the agreement** and click **Next**.



6. The following GUI installation types can be selected.

— **Default Installation**

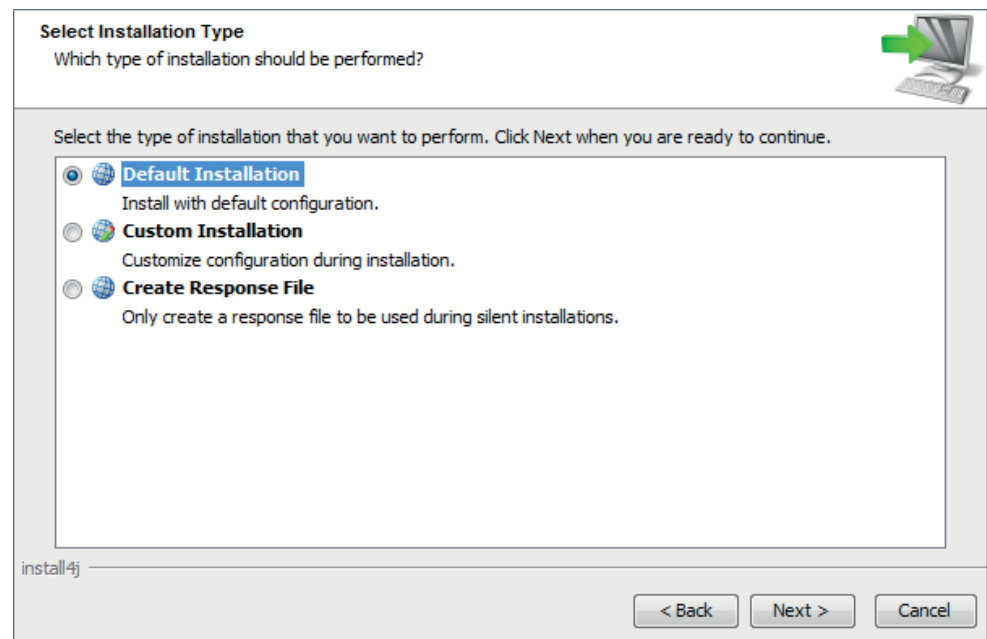
The ESA parameters are given default values. See Section 4.2 on page 7, which presents the default values used.

— **Custom Installation**

The ESA parameter values can be customized.

— **Create Response File**

This installation type does not install the ESA. It is a Custom Installation type which ends creating a response file holding all ESA parameters and the specified values. The response file can be used in the Silent Installation mode.



Click **Next** to continue.

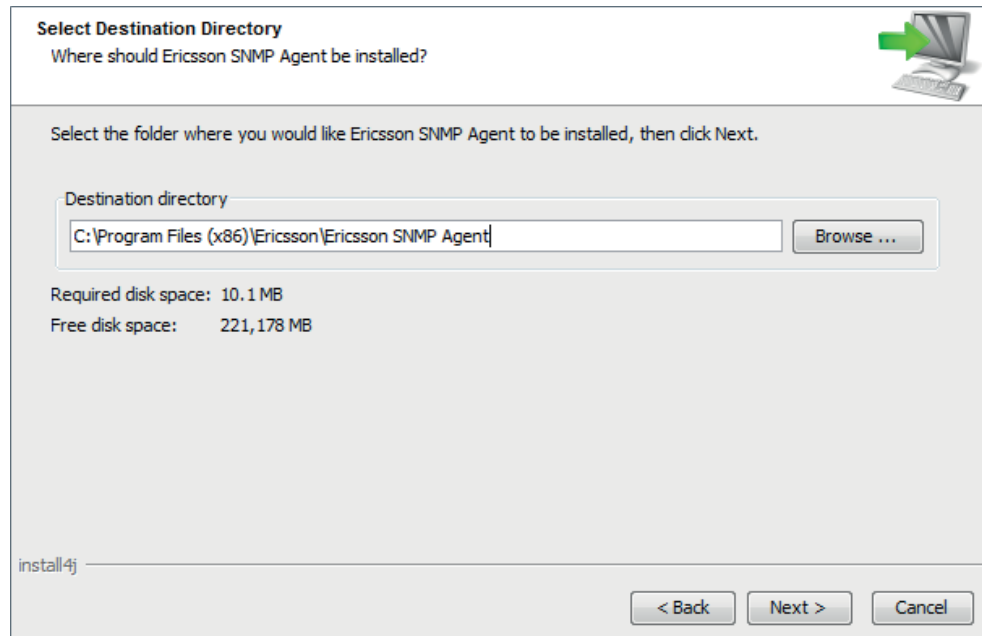
If **Default Installation** is selected, click **Next** and go to Step 16

If **Custom Installation** or **Create Response File** is selected, click **Next** and go to Step 7.



7. This step is applicable for Custom Installation and Create Response File.

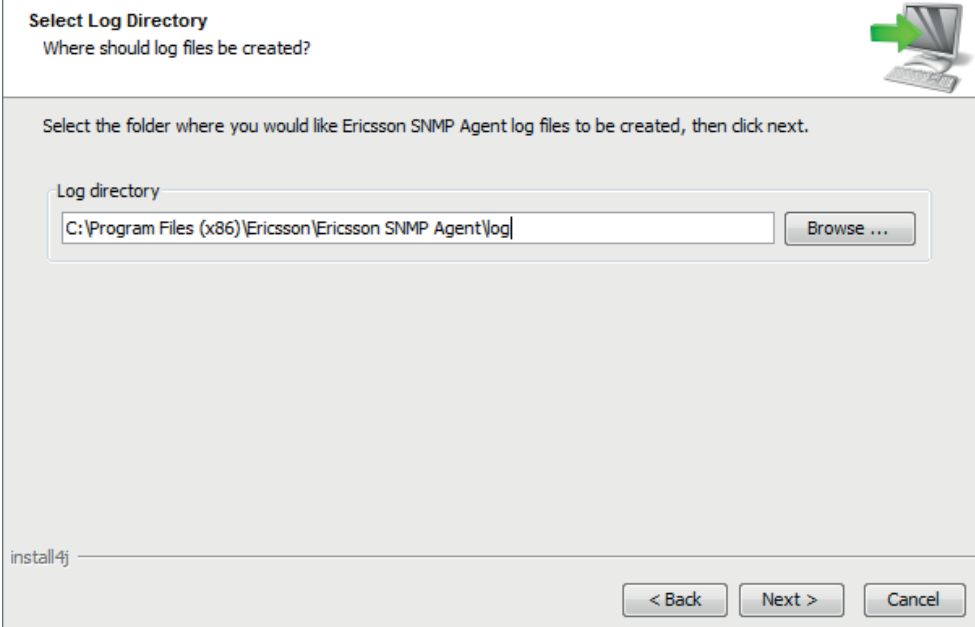
Enter the ESA installation directory.



Click **Next** to continue.



8. Enter the ESA log directory.



**Select Log Directory**  
Where should log files be created?

Select the folder where you would like Ericsson SNMP Agent log files to be created, then click next.

Log directory  
C:\Program Files (x86)\Ericsson\Ericsson SNMP Agent\log

Browse ...

install4j


< Back   Next >   Cancel

Click **Next** to continue.



9. Enter the directories for the ESA configuration files and the generated 3GPP XML files.

**Configuration and Output Directories**  
Which configuration and output directories should be used?



**Configuration directories**

**Alarm Definitions**

**Browse ...**

**Alarm Translations**

**Browse ...**

**PM Counters**

**Browse ...**

**PM Jobs**

**Browse ...**

**PM Thresholds**

**Browse ...**

**Output directories**

**PM 3GPP XML**

**Browse ...**

**BootCounter directories**

**Bootcounter**

**Browse ...**

install4j

**< Back**

**Next >**

**Cancel**


Click **Next** to continue.





## 10. Configure the IP addresses and ports for the ESA.

**Interfaces**  
Which interfaces and ports shall be used?



|                     |                |      |      |
|---------------------|----------------|------|------|
| <b>Master Agent</b> |                |      |      |
| SNMP IP             | All interfaces | Port | 161  |
| AgentX IP           | 127.0.0.1      | Port | 705  |
| RMI IP              | 127.0.0.1      | Port | 7666 |
| <b>FM Agent</b>     |                |      |      |
| SNMP IP             | 127.0.0.1      | Port | 8162 |
| RMI IP              | 127.0.0.1      | Port | 8666 |
| <b>PM Agent</b>     |                |      |      |
| RMI IP              | 127.0.0.1      | Port | 9666 |

install4j

< Back   Next >   Cancel

It is recommended to keep the default values. In order to avoid port collisions in the system, ensure that already used ports are not chosen for the ESA.

Please note that when selecting to bind an interface to 127.0.0.1 it means that the interface allows local access only.

For more information about configuring the ESA interfaces, see Reference [2].

### Master Agent

#### SNMP

The Master Agent binds to the selected IP address for two reasons. It will listen on the selected port for only the selected IP address. And, it will use the selected IP address as the trap sender IP address. By selecting "All interfaces" the Master Agent will listen on the specified port on all IP addresses and use the default IP address as sender IP address.

Default port: 161

#### AgentX

Select the IP address and enter port number for the AgentX interface to bind to. Binding AgentX to an IP address means the subagents can only register themselves on the specified IP address even though there are multiple interfaces in the system. By selecting "All interfaces" the subagents can register themselves on the specified port on all IP addresses.

Default port: 705



**RMI**

The Master Agent binds to this IP address for handling the Master Agent API RMI interface. By selecting "All interfaces" the Master Agent will receive API operations on the specified port on all IP addresses.

Default port: 7666

**FM Agent**

**SNMP**

The FM Agent binds to this IP address for reception of SNMP traps to translate. By selecting "All interfaces" the FM Agent will receive traps on the specified port on all IP addresses.

Default port: 8162

**RMI**

The FM Agent binds to this IP address for handling the FM API RMI interface. By selecting "All interfaces" the FM Agent will receive API operations on the specified port on all IP addresses.

Default port: 8666

**PM Agent**

**RMI**

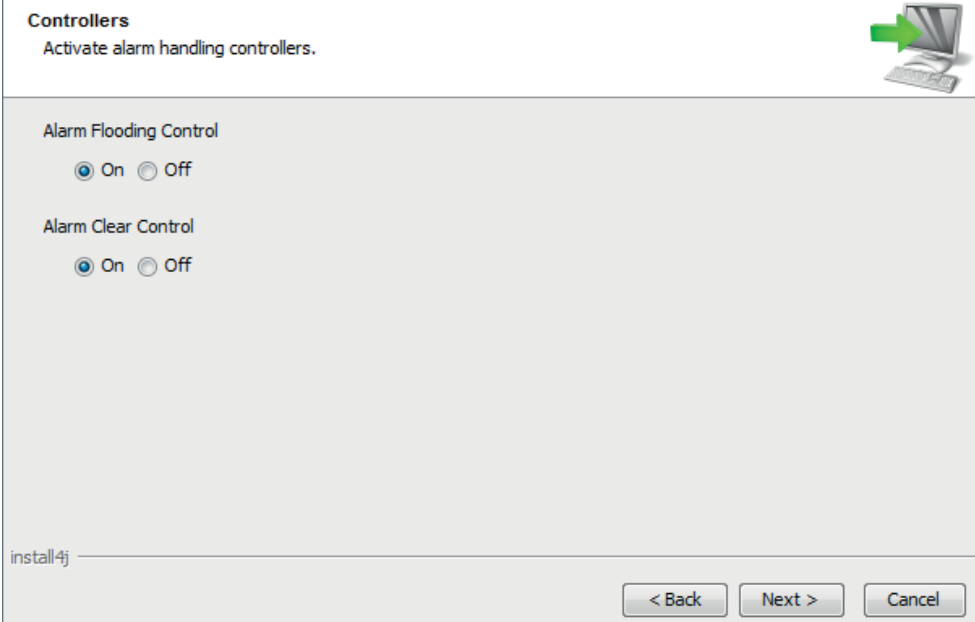
The PM Agent binds to this IP address for handling the PM API RMI interface. By selecting "All interfaces" the PM Agent will receive API operations on the specified port on all IP addresses.

Default port: 9666

Click **Next** to continue.



11. Activate or deactivate the alarm handling controllers.



**Controllers**  
Activate alarm handling controllers.

Alarm Flooding Control  
☒ On ☐ Off

Alarm Clear Control  
☒ On ☐ Off

install4j

< Back   Next >   Cancel

— **Activate Alarm Flooding Control (AFC)**

Check the box "On" to make the AFC option active.

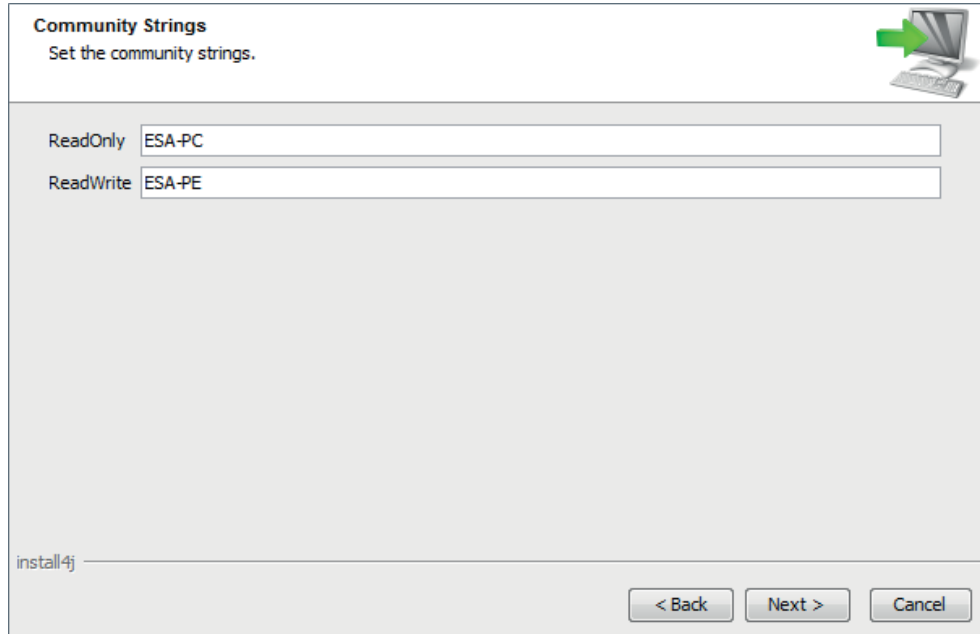
— **Activate Alarm Clear Control (ACC)**

Check the box "On" to make the ACC option active.

For more information about alarm controllers, see Reference [2].

Click **Next** to continue.

## 12. Enter community strings for the ESA.



The image shows a 'Community Strings' dialog box with the title 'Community Strings' and the subtitle 'Set the community strings.' In the top right corner, there is a green arrow pointing right and a small icon of a computer. The dialog contains two text input fields: 'ReadOnly' with the value 'ESA-PC' and 'ReadWrite' with the value 'ESA-PE'. At the bottom left, there is a small text 'install4j'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Define the SNMP v2c community strings for the ESA by entering the values for the following parameters. It is recommended to keep the default values.

For more information about community strings, see Reference [2].

**ReadOnly** Enter the community string allowing read-only access.

Default value: **ESA-PC**

**ReadWrite** Enter the community string allowing read and create access.

Default value: **ESA-PE**

Click **Next** to continue.



### 13. Enter one or several trap destinations.

This step is optional. The trap destination is the address to where to send the SNMP alarms from the ESA. Specify the trap destinations by entering the desired values for the following parameters. If trap destinations are not defined, the ESA can still execute normally, but there are no SNMP traps sent.

For more information about trap destinations, see Reference [2].

**Host / IP** Enter the host name or the IP address of the trap destination. No default value is assigned.

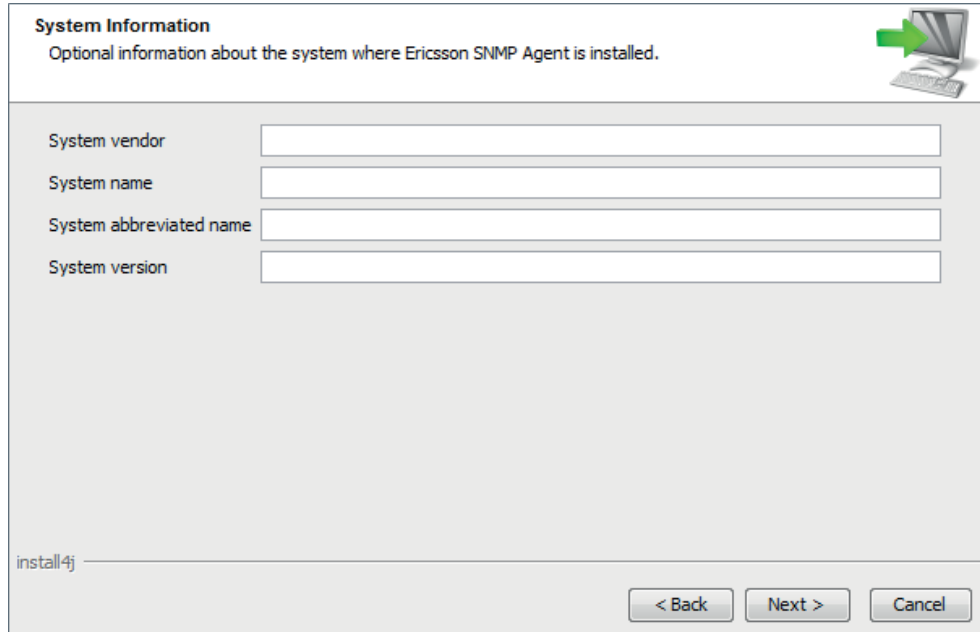
**Port** Enter the port number of the trap destination host.

Default value: 162

Click **Next** to continue.



#### 14. Enter system information.



This step is optional. Specify system information by entering the desired values for the following parameters.

For more information about ESA Information Agent configuration, see Reference [2].

**System Vendor** Enter the vendor name of the system where the ESA resides.

**System Name** Enter the system name of the system where the ESA resides.

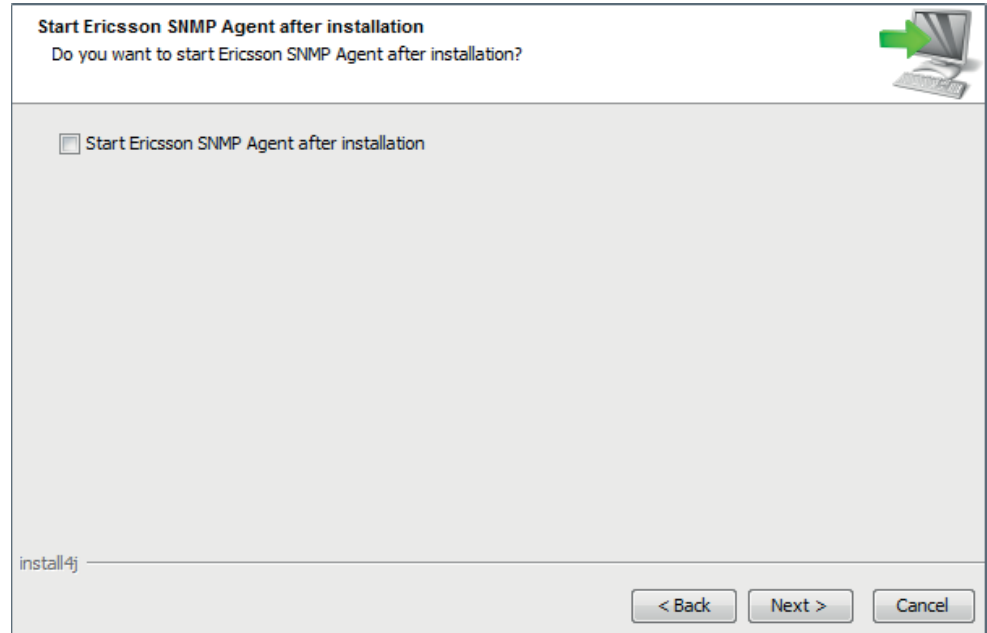
**System Abbreviated Name**  
Enter the abbreviated system name of the system where the ESA resides.

**System Version** Enter the version of the system where the ESA resides.

Click **Next** to continue.



15. Make the selection to start the ESA after installation or not.



Check the box for an automatic start of the ESA after the installation is finished. Unchecking the start of the ESA after installation option, results in that the ESA is not started and must be started manually.

However, it does **not** affect the default setting that automatically starts the ESA after a restart of the entire system. For more information about ESA startup settings, see Reference [2].

Click **Next** to continue.



16. This step is applicable for all installation types.

All parameter values are presented in an installation summary.



The screenshot shows a window titled "Installation Summary" with a green arrow icon in the top right corner. The text inside the window reads: "Ericsson SNMP Agent is installed with the following parameters." Below this is a list of parameters and their values, presented in a table-like format. At the bottom of the window, there is a status bar with the text "install4j" and three buttons: "< Back", "Next >", and "Cancel".

|                         |                                   |
|-------------------------|-----------------------------------|
| Product name:           | Ericsson SNMP Agent               |
| Product version:        | 18.0.0.SNAPSHOT                   |
| Product number:         | CXC 173 8126                      |
| Product revision:       |                                   |
| Installation directory: | /opt/esa                          |
| Log directory:          | /var/log/esa                      |
| Alarm Definitions:      | /opt/esa/conf/fmAlarmDefinitions  |
| Alarm Translations:     | /opt/esa/conf/fmAlarmTranslations |
| PM Counters:            | /opt/esa/conf/pmCounters          |
| PM Jobs:                | /opt/esa/conf/pmJobs              |
| PM Thresholds:          | /opt/esa/conf/pmThresholds        |
| PM 3GPP XML:            | /var/log/esa/pm3gppXml            |
| Boot Counter:           | /opt/esa/bin                      |

install4j

< Back   Next >   Cancel

Scroll through the installation summary to review the parameter settings. If anything has to be corrected, go back to the former window of interest, by clicking **Back** the required number of times, change the setting(s), and then click **Next** until returning to the installation summary.

If **Create Response File** is selected, click **Next** and go to Step 17.

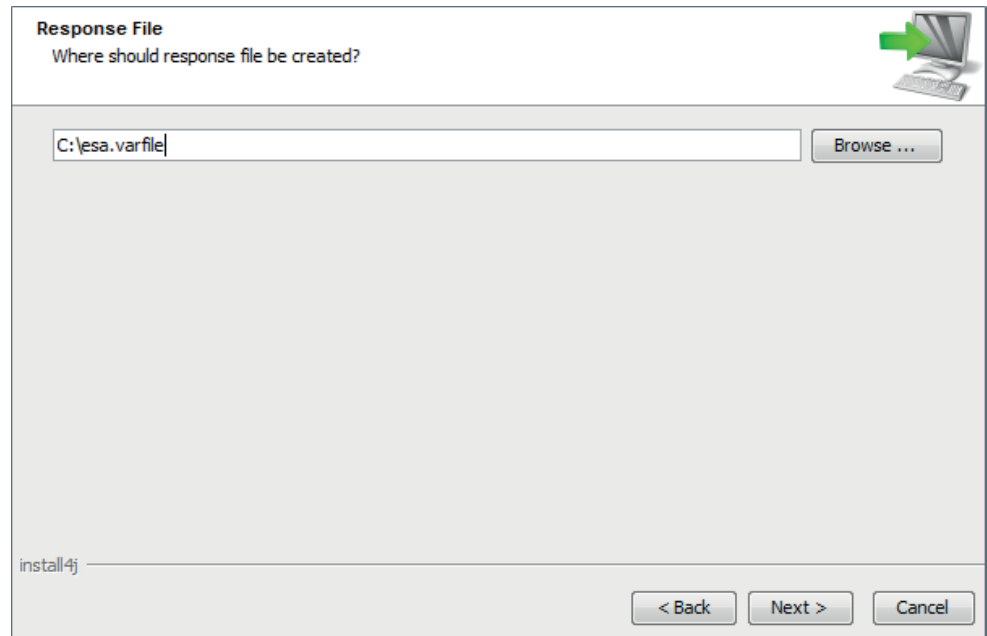
If **Default Installation** or **Custom Installation** is selected, click **Next** to start the installation and go to Step 20.





17. This step is applicable for Create Response File only.

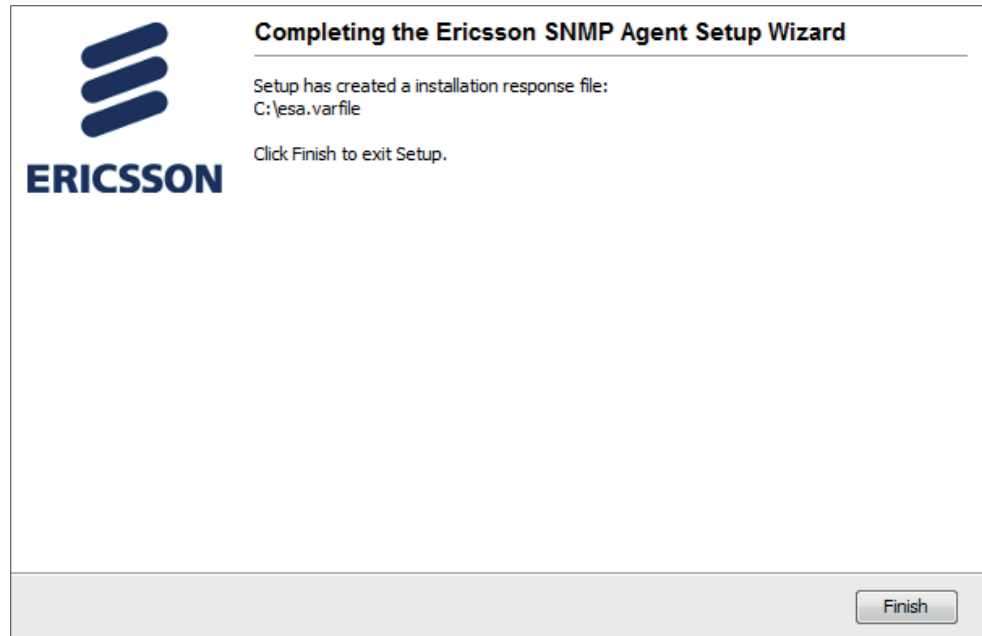
Select target directory and file name for the response file.



Click **Next** to create the response file.



18. Summary of response file creation.



The response file is created. Click **Finish** to end the installation.

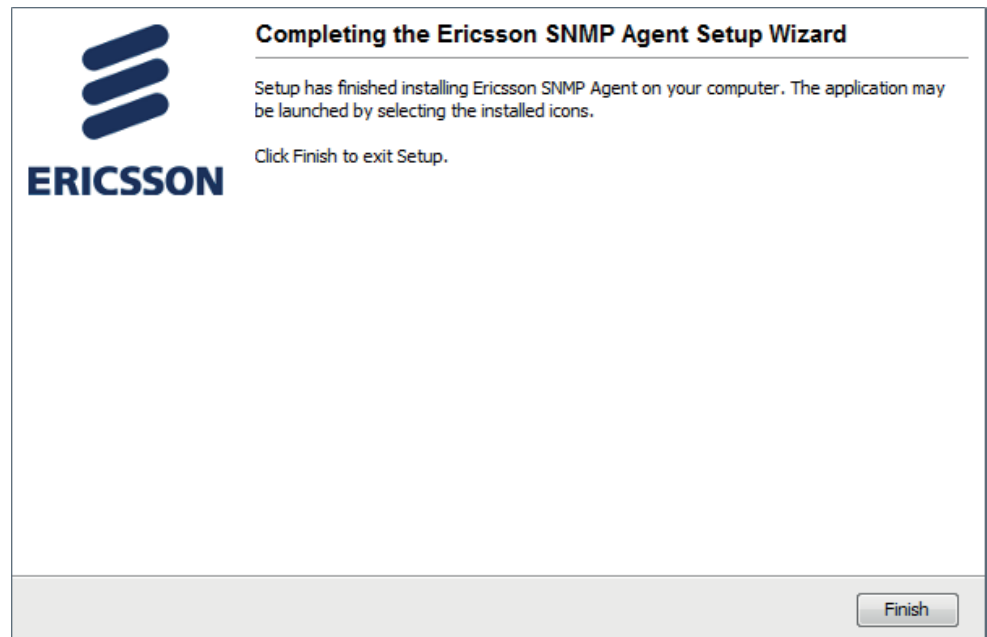
19. This is the end of installation type **Create Response File**.



20. The ESA is being installed and configured on the system.

Please wait for the process to finish!

21. The ESA is installed.



Click **Finish** to end the installation.

22. An installation log file is created at `{esa basedir}\.install4j\installation.log`.

A response file, which is holding all installation parameters, is created at `{esa basedir}\.install4j\response.varfile`.

23. The ESA is ready for operation.

If the option to start the ESA automatically after the installation was not selected, the ESA can be started manually. See the start/stop instructions in Reference [2].

24. This is the end of installation types **Default Installation** and **Custom Installation**.

## 5.3 Console Mode Installation

The console mode is a manual installation method using no GUI. It mimics the GUI Mode installation steps and uses standard input and output (keyboard and monitor).

The Console mode installation procedure:



1. Login to the server where the ESA is to be installed.
2. Prepare the ESA software package(s) to install. See Section 3.2 on page 5.
3. Start the installer application in Console mode.

**Unix**                      `# sh esa-<version>.sh -c`

The installation can at any time be stopped by using the operating environment key combination for stop process, such as using key combination CTRL+C.

```
C:\>This will install Ericsson SNMP Agent on your computer.  
OK [o, Enter], Cancel [c]
```

Press **Enter** to continue the installation process.

4. From this point the installation flow is the same as for the GUI mode installation. Please follow the GUI mode installation procedure in Section 5.2 on page 14 to proceed with the Custom mode installation.

## 5.4 Silent Mode Installation

### 5.4.1 Introduction

The silent mode is an unattended installation method, which means it installs the ESA with a single command line and no human interaction is required.

In silent mode, the installer application runs without any user interaction. Instead, it runs either on the default values, or by providing a response file from which the installer application retrieves the values for various variables used to control the installation. If no response file is given, the silent mode will use the default values.

The silent mode is fully supported on all platforms.

### 5.4.2 Recording an Installation Response File

The response file is created by running the installation in GUI Mode or in Console Mode. Both modes support the option "Creation of response file", which means a normal installation flow is executed, but instead of installing the ESA it ends with creating a ready-to-use response file on the file system.

Go to Section 5.2 on page 14 and follow the steps for "Create Response File".

### 5.4.3 Installation Response File Parameters

The response file can manually be created or edited after a recording. It utilizes a simple "key=value" format. Any basic text editor can be used to work with the response file.



All parameters in the response file are described in more detail in Reference [2].

---

---

### Caution!

On Unix and Linux; Do **not** use character [space] in the install path! If you do, the installation will fail.

---

---

The following parameters can be specified in the response file. Parameters that are not specified in the response file are given default values according to Section 4.2 on page 7.

— `sys.installationDir`

Enter the full path to the directory where to install the ESA.

— `directories.configuration.fmAlarmDefinitions`

Enter the full path to the directory holding the ESA FM Alarm Definition configuration files.

— `directories.configuration.fmAlarmTranslations`

Enter the full path to the directory holding the ESA FM Alarm Translation configuration files.

— `directories.configuration.pmCounters`

Enter the full path to the directory holding the ESA PM Counter Definition configuration files.

— `directories.configuration.pmJobs`

Enter the full path to the directory holding the ESA PM Counter Job configuration files.

— `directories.configuration.pmThresholds`

Enter the full path to the directory holding the ESA PM Counter Threshold configuration files.

— `directories.output.log`

Enter the full path to the directory holding the ESA log files.

— `directories.output.pm3gppXml`

Enter the full path to the directory holding the PM Agent 3GPP XML output files.



- `directories.bootCounter`  
Enter the full path to the directory holding the ESA boot counter files
- `community.readonly`  
Enter the community string for ReadOnly access.
- `community.readwrite`  
Enter the community string for ReadWrite access.
- `fm.controllers.acc`  
Enter ACC status.  
  - on - Active
  - off - Inactive
- `fm.controllers.afc`  
Enter AFC status:  
  - on - Active
  - off - Inactive
- `infoSystem.name`  
Enter the name of the target system.
- `infoSystem.nameAbb`  
Enter the abbreviated name of the target system.
- `infoSystem.vendor`  
Enter the name of the target system vendor.
- `infoSystem.version`  
Enter the version of the target system.
- `interfaces.snmp.masterAgent.ip`  
Enter the IP Address for the Master Agent to bind to.
- `interfaces.snmp.masterAgent.port`  
Enter the port number for the Master Agent to use.
- `interfaces.agentx.ip`



Enter the IP Address for the Master Agent AgentX feature to bind to.

— `interfaces.agentx.port`

Enter the port number for the Master Agent AgentX feature to use.

— `interfaces.rmi.ma.ip`

Enter the IP Address for the Master Agent RMI feature to bind to.

— `interfaces.rmi.ma.port`

Enter the port number for the Master Agent RMI feature to use.

— `interfaces.snmp.fmAgent.ip`

Enter the IP Address for the FM Trap Translation feature to bind to.

— `interfaces.snmp.fmAgent.port`

Enter the port number for the FM Trap Translation feature to use.

— `interfaces.rmi.fm.ip`

Enter the IP Address for the FM RMI feature to bind to.

— `interfaces.rmi.fm.port`

Enter the port number for the FM RMI feature to use.

— `interfaces.rmi.pm.ip`

Enter the IP Address for the PM RMI feature to bind to.

— `interfaces.rmi.pm.port`

Enter the port number for the PM RMI feature to use.

— `startAfterInstall`

Enter ESA startup status after installation:

no - Do not start ESA after installation

yes - Start ESA after installation

— `trapdest`

Enter trap destinations.

Format: <hostname or ip address>/<port number>,...

**Configuration example:**



Three trap destinations are defined.

```
trapdest=10.1.1.20/162,10.1.1.30/162,10.1.1.40/162
```

#### 5.4.4 Example Installation Response File

The following is an example installation response file. It is ready to be used as is. The parameters in the response file can be added in any order. Please note that this example file does not come with a defined trap destination.

```
#install4j response file for Ericsson SNMP Agent <version>.
#Mon Feb 23 12:00:00 CEST 2015
sys.installationDir=/opt/esa
directories.configuration.fmAlarmDefinitions=/opt/esa/conf/fmAlarmDefinitions
directories.configuration.fmAlarmTranslations=/opt/esa/conf/fmAlarmTranslations
directories.configuration.pmCounters=/opt/esa/conf/pmCounters
directories.configuration.pmJobs=/opt/esa/conf/pmJobs
directories.configuration.pmThresholds=/opt/esa/conf/pmThresholds
directories.output.log=/var/log/esa
directories.output.pm3gppXml=/var/log/esa/pm3gppXml
directories.bootCounter=/opt/esa/bin
interfaces.snmp.masterAgent.ip=
interfaces.snmp.masterAgent.port=161
interfaces.agentx.ip=
interfaces.agentx.port=705
interfaces.rmi.ma.ip=
interfaces.rmi.ma.port=7666
interfaces.snmp.fmAgent.ip=
interfaces.snmp.fmAgent.port=8162
interfaces.rmi.fm.ip=
interfaces.rmi.fm.port=8666
interfaces.rmi.pm.ip=
interfaces.rmi.pm.port=9666
community.readonly=ESA-PC
community.readwrite=ESA-PE
trapdest=
fm.controllers.acc=on
fm.controllers.afc=on
infoSystem.name=
infoSystem.nameAbb=
infoSystem.vendor=
infoSystem.version=
startAfterInstall=no
```

#### 5.4.5 Silent Installation Procedure

The silent mode is an automated installation method using no GUI, which means it uses no standard input and output (keyboard and monitor). Instead a response file can be used as input data to the installation procedure. If the Silent mode





installation is executed with no response file or with a response file holding only a few parameters, the installation enters default values where applicable (see Section 4.2 on page 7).

The Silent mode installation procedure:

1. Login to the server where the ESA is to be installed.
2. Prepare the ESA software package(s) to install. See Section 3.2 on page 5.
3. Installation on Unix: Execute the Silent mode installation.

— ...with response file.

```
# sh esa-<version>.sh -q -varfile <filename>
```

— ...without response file.

```
# sh esa-<version>.sh -q
```

4. The installation is performed in one single operation. This is the end of the Silent mode installation.

## 5.5 Linux RPM Installation

The Linux RPM installation does not follow the GUI, Console and Silent mode installation procedures and also it does not come with the flexibility provided by the others. Instead, the RPM installation provides a basic installation with default values.

The Linux RPM installation procedure:

1. Login to the server where the ESA is to be installed.
2. Prepare the Linux RPM software package. See Section 3.2 on page 5.
3. Install the ESA Linux RPM package.

```
# rpm -ivh esa-<version>.rpm
```

4. The Linux RPM package is installed.

Please note that setting the ESA configuration parameters is done after the RPM installation.





## 6 Installation IBM Netcool SSM

### 6.1 Introduction

The IBM Netcool SSM is installed separately from the ESA Basic Package, which means the SSM binaries, configuration files and log files are not found in the ESA directories.

The SSM installer application can run in two different modes; Console and Silent.

### 6.2 Installation SSM

The installation procedure:

1. Login to the server where the SSM is to be installed.

**Linux/Unix** Login as user root.

**Note:** The reason for installing as user root is that the SSM requires access to system resources for efficient and proper system monitoring.

2. Prepare the SSM software package(s) to install. See Section 3.3 on page 5.
3. Install the SSM main software package.

The following command line format is used for Unix/Linux.

```
./netcool-ssm-<version>-<xxxx>-<platform>-<arch>.installer  
[install|upgrade] [silent|record] [<param>=<value> ...]
```

Both interactive and unattended (silent) installation methods are supported on Linux/ Unix. An SSM installation can be recorded, which means creating a response file.

The installation takes a number of parameters. The following requires special attention.

#### a Port Number

Since the ESA Master Agent normally uses port 161, it is recommended to choose port 7161 for the SSM. Port 7161 is predefined in the ESA proxy configuration.

#### b Community String

Community string “private” is predefined in the proxy configuration. If another community string is used, the ESA proxy configuration must be changed as well.



### c Trap Version

It is recommended to use SNMP version v2c for the alarms sent from the SSM to the ESA.

The following is a frequently used installation command line example for installing the SSM using the silent installation procedure.

```
./netcool-ssm-<version>-<xxxx>-<platform>-<arch>.installer  
install silent CONF_UDPPORT=7161 CONF_TRAPVER=2
```

See SSM documentation Reference [3] for further details and options about installing the SSM.

4. Installation log file `ssminstall.log` is found in the `{ssm basedir}/log/`.

5. Install the Fix Pack patch package.

See SSM documentation Reference [5] for further details and options about installing the SSM Fix Pack.

6. Install additional patch packages.

See SSM documentation Reference [5] for further details and options about installing the patches.

7. Installation is finished.



## 7 Uninstallation ESA Basic Package

### 7.1 Introduction

This section describes how to uninstall the ESA on the different platforms using the different uninstallation modes.

---

---

#### Warning!

Please note that the uninstallation deletes all the configurations files and log files from the ESA install directory!

---

---

### 7.2 GUI Mode Uninstallation

Uninstall the ESA by executing the following procedure:

1. Login to the server where the ESA is installed.
2. Uninstall the ESA.

```
Unix          # {esa basedir}/uninstall
```

3. The ESA is uninstalled.

### 7.3 Console Mode Uninstallation

Uninstall the ESA by executing the following procedure:

1. Login to the server where the ESA is installed.
2. Uninstall the ESA.

```
Unix          # {esa basedir}/uninstall -c
```

3. Confirm uninstallation.

```
Are you sure you want to completely remove Ericsson SNMP Agent  
and all of its components?  
Yes [y, Enter], No [n]
```

```
Press Enter to continue uninstallation.
```

4. The ESA is uninstalled.



## 7.4 Silent Mode Uninstallation

Uninstall the ESA by executing the following procedure:

1. Login to the server where the ESA is installed.
2. Uninstall the ESA.

```
Unix                # {esa basedir}/uninstall -q
```

3. The ESA is uninstalled.

## 7.5 Linux RPM Uninstallation

Uninstall the ESA by executing the following procedure:

1. Login to the server where the ESA is installed.
2. Uninstall the ESA.

```
Linux                # rpm -e esa
```

3. The ESA is uninstalled.



## 8 Uninstallation IBM Netcool SSM

Uninstall the SSM by executing the following procedure:

### Linux/Unix

1. As the root user, verify that the SSM agent is not running. If the agent is running, stop it.

2. Move to the SSM bin directory.

```
# cd {ssm basedir}/bin
```

3. At the shell prompt, enter the command:

```
# ./remove-ssmagent
```

4. The SSM and its directory tree are removed.

See SSM documentation Reference [3] for further details and options about uninstalling the SSM Main Package.







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# Glossary

## **Glossary**

ESA Glossary of Terms and Acronyms,  
0033-CSH 109 654





## Reference List

### ESA Documentation

- [1] ESA Library Overview  
DIRECTIONS FOR USE, 1/1553-CSH 109 654
- [2] ESA Setup and Configuration  
SYSTEM ADMINISTRATION GUIDE, 1/1543-CSH 109 654

### SSM Documentation

- [3] IBM Netcool/System Service Monitors Version 4.0.1, Administration Guide
- [4] IBM Netcool/System Service Monitors Version 4.0.1, Reference Guide
- [5] IBM Netcool/System Service Monitors Version 4.0.1, Patch Installation Guide