

Preparing USB Memory Stick for ESC Software Installation

Remote Site Management

OPERATING INSTRUCTIONS

PRELIMINARY

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PRELIMINARY



1 Introduction

This document describes how to prepare the three files necessary for the USB memory stick that is used for installing the Ericsson Site Controller (ESC) software. The three files are a configuration file, a licence key file and a software image file. The configuration file and the license key file is valid for one ESC only, it is not possible to use the same files on more than one ESC.

The memory stick can be prepared through the ESC Manager (recommended) or by manually loading files to the memory stick using Windows Explorer.

2 Preparing the USB Memory Stick Using ESC Manager

Refer to document *Using the ESC Manager* for instructions on how to prepare the USB memory stick in the ESC Manager.

3 Preparing the USB Memory Stick Using Windows Explorer

This chapter describes how to prepare the site-specific USB memory stick for the ESC software installation.

3.1 Prerequisites

The following equipment is required for preparing the USB memory stick:

- USB memory stick, FAT32-formatted, minimum capacity 32 MB
- PC with Windows XP or later



3.1.1 Documentation

Ensure that the Site Installation Documentation (SID) is available.

3.1.2 Equipment

Ensure that the following tools are available:

- USB memory stick, FAT32-formatted, minimum capacity 32 Mb
- PC with Windows XP or later
- Digital version of this document, to make it possible to copy and paste file template text

3.1.3 Conditions

Ensure that the following site configuration data is available:

- New password for remote access
- Name of the ESC.

The Name must be unique within the network of nodes.

- ESC Unique Logical Name (ULN)

The ULN must be unique within the network of network elements and must match the fingerprint of the ESC license

- IP address to NTP server
- ESC primary IP address
- ESC primary subnet mask
- Default gateway
- IP address to OSS trap receiver (for alarms)

3.2 Checking the License Key File

To check the license key file, do the following:

1. Check that the name of the license key file is

license

If the file is named differently it must be renamed to **license**.

2. Check that the file type of the license key is the XML file format (**.xml**).



To display the file type, right-click on the file and select “Properties”.

3.3 Checking the Software Image File

To check the software image file, make sure that the file name *begins* with **19010-CXP**. If necessary, rename the file.

3.4 Preparing the Configuration File

The configuration file contains the basic data to make the ESC available for remote access. If a prepared configuration file is not available, do the following steps. If a file is available, check it according the instructions in .

To prepare the configuration file, do the following:

1. Start the Notepad application on the PC.
2. Copy the configuration file template that is available in Section 4 on page 5.
3. Paste the configuration file template into the empty Notepad text document.
4. In the text document, replace the text that corresponds to the **bold** text in Table 1 according to the site configuration data.

To save the file in the correct file format, do the following:

1. In the Notepad **File** menu, select **Save As**.
2. In the **Save as type** drop down list, select **All Files**.
3. In the **File name** text field, enter `autoconf.cli`
4. In the **Encoding** drop down menu, select **UTF-8**.
5. Choose a destination folder and click **Save**.

3.5 Checking the Configuration File

Do the following to check the configuration file:

1. Check that the name of the configuration file is
autoconf

If the file is named differently it must be renamed to **autoconf**.

2. Check that the file type is the CLI file format (**.cli**).

To display the file type, right-click on the file and select “Properties”.



3.6 Loading Files to the USB Memory Stick

To prepare the USB memory stick, do the following:

1. Insert the USB memory stick in a USB port on the PC.
2. Make sure that the stick is FAT32-formatted.

To display the file system format, open Windows Explorer, right click on the USB device, and select "Properties".

3. Make copies of the three files below:
 - **19010-CXP...**
 - **autoconf**
 - **license**
4. Transfer the three file copies to the memory stick. The files must be placed in the root of the stick, not in any folder.
5. Remove the stick from the PC.
6. Label the stick with, for example, *ESC_sitename*

Note: The **autoconf** file and the **license** file is valid for one ESC only. It is not possible to use a stick with the same data on more than one ESC.



4 Configuration File Template

This section provides a template for the configuration file. Replace the **bold** text with relevant site configuration data, as described in Table 1.

File template

```
changePWD default newpassword newpassword
startTransaction t
setMOAttribute t SDN=0 name sitename
setMOAttribute t SDN=0 managementMode managedMode
setMOAttribute t SDN=0 defaultManagementMibType SDN
setMOAttribute t SDN=0 systemClockTimeServer "192.168.1.240"
setMOAttribute t SDN=0 systemTimeZone "TimeZone"
setMOAttribute t SDN=0 depIPInterface "SDN=0,IPInterface=NORTHBOUND-IP"
createMO t SDN=0,EthernetInterface=NORTHBOUND-ETH
setMOAttribute t SDN=0,EthernetInterface=NORTHBOUND-ETH portNumber 1
setMOAttribute t SDN=0,EthernetInterface=NORTHBOUND-ETH sendLinkAlarmAllowed true
createMO t SDN=0,IPInterface=NORTHBOUND-IP
setMOAttribute t SDN=0,IPInterface=NORTHBOUND-IP depLinkLayer "SDN=0,EthernetInterface=NORTHBOUND-ETH"
setMOAttribute t SDN=0,IPInterface=NORTHBOUND-IP mode "STATIC"
setMOAttribute t SDN=0,IPInterface=NORTHBOUND-IP primaryIPAddress "192.168.1.10"
setMOAttribute t SDN=0,IPInterface=NORTHBOUND-IP primarySubNetMask "255.255.255.0"
setMOAttribute t SDN=0,IPInterface=NORTHBOUND-IP defaultGateway "192.168.1.1"
commit t
endTransaction t
setULN ULN123
subscribe 10.10.10.10:162 1 SDN
```

Table 1 Instructions for Replacing Bold Text in File Template

Template Text	Instruction and Description
changePWD default newpassword newpassword	<p>Replace the bold text with a new password, typed twice and separated by a space.</p> <p>This changes the password of the ESC, from <i>default</i> to a new password.</p>
setULN ULN123	<p>Replace the bold text with a new Unique Logical Name (ULN).</p> <p>This changes the ULN of the ESC, which must be unique within the RSM network and must match the fingerprint of the license key file. The default ULN is set to match the serial number of the ESC and must not be changed if the ESC is used as a stand alone system.</p>
setMOAttribute t SDN=0 name sitename	<p>Replace the bold text with a new node name.</p> <p>For the OSS-RC, the node name must be unique within the network.</p>
setMOAttribute t SDN=0 managementMode managedMode	<p>Replace the bold text with <i>one</i> of the following values:</p> <ul style="list-style-type: none"> managedMode, if the ESC is managed through the ESC Manager, an OSS application or an SNMP trap manager. standAloneMode, if the ESC is not used for remote access and does not send alarms to any subscribers.
setMOAttribute t SDN=0 defaultManagementMibType SDN	<p>Replace the bold text with <i>one</i> of the following values:</p> <ul style="list-style-type: none"> SDN, if the ESC is managed through the ESC Manager. SN, if the ESC is managed through the OSS-RC.

**Table 1** Instructions for Replacing Bold Text in File Template

Template Text	Instruction and Description
setMOAttribute t SDN=0 systemClockTimeServer "192.168.1.240"	Replace the bold text with the IP address of the Network Time Protocol (NTP) sever, and keep the double quotation marks (").
setMOAttribute t SDN=0 systemTimeZone " TimeZone "	Replace the bold text with the correct time zone of the ESC site, and keep the double quotation marks ("). Valid time zone values are listed in Section 4.1 on page 6.
setMOAttribute t SDN=0,IPInterface=NORTHBOUND-IP mode " STATIC "	To change the IP interface mode, replace the bold text with <i>one</i> of the following values: <ul style="list-style-type: none">• STATIC, if the ESC has a dedicated static IP address.• DHCP, if the IP address of the ESC is distributed using DHCP.
setMOAttribute t SDN=0,IPInterface=NORTHBOUND-IP primaryIPAddress "192.168.1.10"	Do <i>one</i> of the following: <ul style="list-style-type: none">• If the IP interface mode is set to STATIC, replace the bold text with the IP address of the ESC and keep the double quotation marks (").• If the IP interface mode is set to DHCP, delete this line.
setMOAttribute t SDN=0,IPInterface=NORTHBOUND-IP primarySubNetMask " 255.255.255.0 "	Do <i>one</i> of the following: <ul style="list-style-type: none">• If the IP interface mode is set to STATIC, replace the bold text with the subnet mask of the ESC and keep the double quotation marks (").• If the IP interface mode is set to DHCP, delete this line.
setMOAttribute t SDN=0,IPInterface=NORTHBOUND-IP defaultGateway " 192.168.1.1 "	Do <i>one</i> of the following: <ul style="list-style-type: none">• If the IP interface mode is set to STATIC, replace the bold text with the gateway address and keep the double quotation marks (").• If the IP interface mode is set to DHCP, delete this line.
subscribe 10.10.10.10:162 1 SDN	This line adds an SNMP trap subscriber, typically the OSS-RC or the ESC Manager. Replace the bold text with the IP address and the port number, separated by a colon (:), of the ESC Manager or the OSS-RC. Keep the trailing space and 1, after IP address:portnumber. After the 1, insert a space and one of the following: <ul style="list-style-type: none">• SDN, if the subscriber is the ESC Manager.• SN, if the subscriber is the OSS-RC. Copy and paste this line to add more subscribers.

4.1 Values of the systemTimeZone Attribute

The following are possible values of the `systemTimeZone` attribute:

Africa/Abidjan
Africa/Accra
Africa/Addis_Ababa
Africa/Algiers
Africa/Asmara



Africa/Asmera
Africa/Bamako
Africa/Bangui
Africa/Banjul
Africa/Bissau
Africa/Blantyre
Africa/Brazzaville
Africa/Bujumbura
Africa/Cairo
Africa/Casablanca
Africa/Ceuta
Africa/Conakry
Africa/Dakar
Africa/Dar_es_Salaam
Africa/Djibouti
Africa/Douala
Africa/El_Aaiun
Africa/Freetown
Africa/Gaborone
Africa/Harare
Africa/Johannesburg
Africa/Kampala
Africa/Khartoum
Africa/Kigali
Africa/Kinshasa
Africa/Lagos
Africa/Libreville
Africa/Lome
Africa/Luanda
Africa/Lubumbashi
Africa/Lusaka
Africa/Malabo
Africa/Maputo
Africa/Maseru
Africa/Mbabane
Africa/Mogadishu
Africa/Monrovia
Africa/Nairobi



Africa/Ndjamena
Africa/Niamey
Africa/Nouakchott
Africa/Ouagadougou
Africa/Porto-Novo
Africa/Sao_Tome
Africa/Timbuktu
Africa/Tripoli
Africa/Tunis
Africa/Windhoek
America/Adak
America/Anchorage
America/Anguilla
America/Antigua
America/Araguaina
America/Argentina/Buenos_Aires
America/Argentina/Catamarca
America/Argentina/ComodRivadavia
America/Argentina/Cordoba
America/Argentina/Jujuy
America/Argentina/La_Rioja
America/Argentina/Mendoza
America/Argentina/Rio_Gallegos
America/Argentina/Salta
America/Argentina/San_Juan
America/Argentina/San_Luis
America/Argentina/Tucuman
America/Argentina/Ushuaia
America/Aruba
America/Asuncion
America/Atikokan
America/Atka
America/Bahia
America/Bahia_Banderas
America/Barbados
America/Belem
America/Belize
America/Blanc-Sablon



America/Boa_Vista
America/Bogota
America/Boise
America/Buenos_Aires
America/Cambridge_Bay
America/Campo_Grande
America/Cancun
America/Caracas
America/Catamarca
America/Cayenne
America/Cayman
America/Chicago
America/Chihuahua
America/Coral_Harbour
America/Cordoba
America/Costa_Rica
America/Cuiaba
America/Curacao
America/Danmarkshavn
America/Dawson
America/Dawson_Creek
America/Denver
America/Detroit
America/Dominica
America/Edmonton
America/Eirunepe
America/El_Salvador
America/Ensenada
America/Fort_Wayne
America/Fortaleza
America/Glace_Bay
America/Godthab
America/Goose_Bay
America/Grand_Turk
America/Grenada
America/Guadeloupe
America/Guatemala
America/Guayaquil



America/Guyana
America/Halifax
America/Havana
America/Hermosillo
America/Indiana/Indianapolis
America/Indiana/Knox
America/Indiana/Marengo
America/Indiana/Petersburg
America/Indiana/Tell_City
America/Indiana/Vevay
America/Indiana/Vincennes
America/Indiana/Winamac
America/Indianapolis
America/Inuvik
America/Iqaluit
America/Jamaica
America/Jujuy
America/Juneau
America/Kentucky/Louisville
America/Kentucky/Monticello
America/Knox_IN
America/La_Paz
America/Lima
America/Los_Angeles
America/Louisville
America/Maceio
America/Managua
America/Manaus
America/Marigot
America/Martinique
America/Matamoros
America/Mazatlan
America/Mendoza
America/Menominee
America/Merida
America/Metlakatla
America/Mexico_City
America/Miquelon



America/Moncton
America/Monterrey
America/Montevideo
America/Montreal
America/Montserrat
America/Nassau
America/New_York
America/Nipigon
America/Nome
America/Noronha
America/North_Dakota/Beulah
America/North_Dakota/Center
America/North_Dakota/New_Salem
America/Ojinaga
America/Panama
America/Pangnirtung
America/Paramaribo
America/Phoenix
America/Port-au-Prince
America/Port_of_Spain
America/Porto_Acre
America/Porto_Velho
America/Puerto_Rico
America/Rainy_River
America/Rankin_Inlet
America/Recife
America/Regina
America/Resolute
America/Rio_Branco
America/Rosario
America/Santa_Isabel
America/Santarem
America/Santiago
America/Santo_Domingo
America/Sao_Paulo
America/Scoresbysund
America/Shiprock
America/Sitka



America/St_Barthelemy
America/St_Johns
America/St_Kitts
America/St_Lucia
America/St_Thomas
America/St_Vincent
America/Swift_Current
America/Tegucigalpa
America/Thule
America/Thunder_Bay
America/Tijuana
America/Toronto
America/Tortola
America/Vancouver
America/Virgin
America/Whitehorse
America/Winnipeg
America/Yakutat
America/Yellowknife
Antarctica/Casey
Antarctica/Davis
Antarctica/DumontDURville
Antarctica/Macquarie
Antarctica/Mawson
Antarctica/McMurdo
Antarctica/Palmer
Antarctica/Rothera
Antarctica/South_Pole
Antarctica/Syowa
Antarctica/Vostok
Arctic/Longyearbyen
Asia/Aden
Asia/Almaty
Asia/Amman
Asia/Anadyr
Asia/Aqtau
Asia/Aqtobe
Asia/Ashgabat



Asia/Ashkhabad
Asia/Baghdad
Asia/Bahrain
Asia/Baku
Asia/Bangkok
Asia/Beirut
Asia/Bishkek
Asia/Brunei
Asia/Calcutta
Asia/Choibalsan
Asia/Chongqing
Asia/Chungking
Asia/Colombo
Asia/Dacca
Asia/Damascus
Asia/Dhaka
Asia/Dili
Asia/Dubai
Asia/Dushanbe
Asia/Gaza
Asia/Harbin
Asia/Ho_Chi_Minh
Asia/Hong_Kong
Asia/Hovd
Asia/Irkutsk
Asia/Istanbul
Asia/Jakarta
Asia/Jayapura
Asia/Jerusalem
Asia/Kabul
Asia/Kamchatka
Asia/Karachi
Asia/Kashgar
Asia/Kathmandu
Asia/Katmandu
Asia/Kolkata
Asia/Krasnoyarsk
Asia/Kuala_Lumpur



Asia/Kuching
Asia/Kuwait
Asia/Macao
Asia/Macau
Asia/Magadan
Asia/Makassar
Asia/Manila
Asia/Muscat
Asia/Nicosia
Asia/Novokuznetsk
Asia/Novosibirsk
Asia/Omsk
Asia/Oral
Asia/Phnom_Penh
Asia/Pontianak
Asia/Pyongyang
Asia/Qatar
Asia/Qyzylorda
Asia/Rangoon
Asia/Riyadh
Asia/Saigon
Asia/Sakhalin
Asia/Samarkand
Asia/Seoul
Asia/Shanghai
Asia/Singapore
Asia/Taipei
Asia/Tashkent
Asia/Tbilisi
Asia/Tehran
Asia/Tel_Aviv
Asia/Thimbu
Asia/Thimphu
Asia/Tokyo
Asia/Ujung_Pandang
Asia/Ulaanbaatar
Asia/Ulan_Bator
Asia/Urumqi



Asia/Vientiane
Asia/Vladivostok
Asia/Yakutsk
Asia/Yekaterinburg
Asia/Yerevan
Atlantic/Azores
Atlantic/Bermuda
Atlantic/Canary
Atlantic/Cape_Verde
Atlantic/Faeroe
Atlantic/Faroe
Atlantic/Jan_Mayen
Atlantic/Madeira
Atlantic/Reykjavik
Atlantic/South_Georgia
Atlantic/St_Helena
Atlantic/Stanley
Australia/ACT
Australia/Adelaide
Australia/Brisbane
Australia/Broken_Hill
Australia/Canberra
Australia/Currie
Australia/Darwin
Australia/Eucla
Australia/Hobart
Australia/LHI
Australia/Lindeman
Australia/Lord_Howe
Australia/Melbourne
Australia/NSW
Australia/North
Australia/Perth
Australia/Queensland
Australia/South
Australia/Sydney
Australia/Tasmania
Australia/Victoria



Australia/West
Australia/Yancowinna
Brazil/Acre
Brazil/DeNoronha
Brazil/East
Brazil/West
Canada/Atlantic
Canada/Central
Canada/East-Saskatchewan
Canada/Eastern
Canada/Mountain
Canada/Newfoundland
Canada/Pacific
Canada/Saskatchewan
Canada/Yukon
Chile/Continental
Chile/EasterIsland
Cuba
Egypt
Eire
Etc/GMT+0
Etc/GMT+10
Etc/GMT+11
Etc/GMT+12
Etc/GMT+1
Etc/GMT+2
Etc/GMT+3
Etc/GMT+4
Etc/GMT+5
Etc/GMT+6
Etc/GMT+7
Etc/GMT+8
Etc/GMT+9
Etc/GMT-0
Etc/GMT-10
Etc/GMT-11
Etc/GMT-12
Etc/GMT-13



Etc/GMT-14
Etc/GMT-1
Etc/GMT-2
Etc/GMT-3
Etc/GMT-4
Etc/GMT-5
Etc/GMT-6
Etc/GMT-7
Etc/GMT-8
Etc/GMT-9
Etc/GMT0
Etc/GMT
Etc/Greenwich
Etc/UCT
Etc/UTC
Etc/Universal
Etc/Zulu
Europe/Amsterdam
Europe/Andorra
Europe/Athens
Europe/Belfast
Europe/Belgrade
Europe/Berlin
Europe/Bratislava
Europe/Brussels
Europe/Bucharest
Europe/Budapest
Europe/Chisinau
Europe/Copenhagen
Europe/Dublin
Europe/Gibraltar
Europe/Guernsey
Europe/Helsinki
Europe/Isle_of_Man
Europe/Istanbul
Europe/Jersey
Europe/Kaliningrad
Europe/Kiev



Europe/Lisbon
Europe/Ljubljana
Europe/London
Europe/Luxembourg
Europe/Madrid
Europe/Malta
Europe/Mariehamn
Europe/Minsk
Europe/Monaco
Europe/Moscow
Europe/Nicosia
Europe/Oslo
Europe/Paris
Europe/Podgorica
Europe/Prague
Europe/Riga
Europe/Rome
Europe/Samara
Europe/San_Marino
Europe/Sarajevo
Europe/Simferopol
Europe/Skopje
Europe/Sofia
Europe/Stockholm
Europe/Tallinn
Europe/Tirane
Europe/Tiraspol
Europe/Uzhgorod
Europe/Vaduz
Europe/Vatican
Europe/Vienna
Europe/Vilnius
Europe/Volgograd
Europe/Warsaw
Europe/Zagreb
Europe/Zaporozhye
Europe/Zurich
GB-Eire



GB
Hongkong
Iceland
Indian/Antananarivo
Indian/Chagos
Indian/Christmas
Indian/Cocos
Indian/Comoro
Indian/Kerguelen
Indian/Mahe
Indian/Maldives
Indian/Mauritius
Indian/Mayotte
Indian/Reunion
Iran
Israel
Jamaica
Japan
Kwajalein
Libya
Mexico/BajaNorte
Mexico/BajaSur
Mexico/General
NZ-CHAT
NZ
Navajo
PRC
Pacific/Apia
Pacific/Auckland
Pacific/Chatham
Pacific/Chuuk
Pacific/Easter
Pacific/Efate
Pacific/Enderbury
Pacific/Fakaofu
Pacific/Fiji
Pacific/Funafuti
Pacific/Galapagos



Pacific/Gambier
Pacific/Guadalcanal
Pacific/Guam
Pacific/Honolulu
Pacific/Johnston
Pacific/Kiritimati
Pacific/Kosrae
Pacific/Kwajalein
Pacific/Majuro
Pacific/Marquesas
Pacific/Midway
Pacific/Nauru
Pacific/Niue
Pacific/Norfolk
Pacific/Noumea
Pacific/Pago_Pago
Pacific/Palau
Pacific/Pitcairn
Pacific/Pohnpei
Pacific/Ponape
Pacific/Port_Moresby
Pacific/Rarotonga
Pacific/Saipan
Pacific/Samoa
Pacific/Tahiti
Pacific/Tarawa
Pacific/Tongatapu
Pacific/Truk
Pacific/Wake
Pacific/Wallis
Pacific/Yap
Poland
Portugal
ROC
ROK
Singapore
Turkey
US/Alaska



US/Aleutian
US/Arizona
US/Central
US/East-Indiana
US/Eastern
US/Hawaii
US/Indiana-Starke
US/Michigan
US/Mountain
US/Pacific
US/Samoa



Glossary

ESC

Ericsson Site Controller

FAT32

File Allocation Table where the cluster values are represented by 32-bit numbers

IP

Internet Protocol

NTP

Network Time Protocol

OSS

Operations and Support System

SW

Software

ULN

Unique Logical Number

USB

Universal Serial Bus