

Layered IPWorks/AAA Massive Provisioning over CLI

Ericsson Dynamic Activation 1

INTERFACE DESCRIPTION

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Contents

1	Introduction	1
1.1	Purpose and Scope	1
1.2	Target Group	1
1.3	Typographic Conventions	1
2	Layered AAA Conditional Search Commands	3
2.1	Print AAA Users (AAMSUIP)	3
2.1.1	AAMSUIP Request	3
2.1.2	AAMSUIP Result File Schema	6
2.2	Print AAA Groups (AAMSUGP)	6
2.2.1	AAMSUGP Request	6
2.2.2	AAMSUGP Result File Schema	7
2.3	Print AAA Policies (AAMSUPP)	7
2.3.1	AAMSUPP Request	7
2.3.2	AAMSUPP Result File Schema	8
3	AAA Massive Update Commands	9
3.1	End Group (AAMSUGE)	9
3.1.1	AAMSUGE Request	9
3.1.2	AAMSUGE Result File Schema	10
3.2	End Policy (AAMSUPE)	11
3.2.1	AAMSUPE Request	11
3.2.2	AAMSUPE Result File Schema	13
4	Faults or Errors	15
4.1	General CLI Errors	15
4.2	Command Mapped Errors	15
	Reference List	17





1 Introduction

This document covers the massive operations available through the Ericsson™ Dynamic Activation (EDA) Command Line Interface (CLI) for layered Authentication, Authorization, and Accounting (AAA) data in IPWorks.

1.1 Purpose and Scope

This document describes layered AAA data in IPWorks, conditional search commands.

How to use these commands is covered in the document *Generic CLI Interface Specification*, Reference [3].

1.2 Target Group

The target group for this document is as follows:

- System Integrator

For more information regarding the different target groups, see *Library Overview*, Reference [2].

1.3 Typographic Conventions

Typographic conventions are described in the document *Library Overview*, Reference [2].

For information about abbreviations used throughout this document refer to *Glossary of Terms and Acronyms*, Reference [1].





2 Layered AAA Conditional Search Commands

This section covers all AAA conditional search commands available through the Dynamic Activation CLI. All conditional search commands generate response files, rather than printing the answer directly to the client.

The following AAA search commands are available:

- Print AAA Users (AAMSUIP), see Section 2.1 on page 3
- Print AAA Groups (AAMSUGP), see Section 2.2 on page 6
- Print AAA Policies (AAMSUPP), see Section 2.3 on page 7

2.1 Print AAA Users (AAMSUIP)

This command prints all AAA users.

2.1.1 AAMSUIP Request

Command Description:

```
AAMSUIP: [USERNAMES= usernames] [, SPNAMES= spnames] [, GRPNAMES= grpnames]
[, AUTHMETHODS= authenmethods] [, IPALLOCTYPE= ipalloctype] [, IPALLOCVALUE= ipallocvalue]
[, IPV6PREFIXALLOCTYPE= ipv6prefixalloctype] [, IPV6PREFIXALLOCVALUE= ipv6prefixallocvalue]
[, ASSOCIATEDIMSI= associatedimsi];
```

Example of an AAMSUIP command

AAMSUIP; This CLI command prints all AAA users.

The following table covers the attributes that can be received in AAA Users Result File.

Table 1 Create AAA User Parameters

Parameter	Type	Occurrence	Description
aaaUserName	String Min Length = 1 Max Length = 253	Mandatory	The name of the user.
aaaUserPassword	String Min Length = 1 Max Length = 256	Mandatory	The password of the user.



Table 1 Create AAA User Parameters

Parameter	Type	Occurrence	Description
aaaAssociatedImsi	String Length = 15	Optional (0-1)	If the secure SSID feature is used by a non-SIM Wi-Fi subscription, an associated IMSI is needed for IPWorks AAA to download the user profile from HLR. This user profile is used for checking the Wi-Fi subscription for authorization. The associated IMSI must be available as an IMSI identity in CUDB.
aaaAuthenticationMethod	String Enumeration value = "NONE" Enumeration value = "EAP-MD5" Enumeration value = "EAP-SIM" Enumeration value = "EAP-AKA" Enumeration value = "EAP-TLS" Enumeration value = "EAP-TTLS" Enumeration value = "LEAP" Enumeration value = "PEAP" Enumeration value = "EAP-MSCHAP2"	Optional (0-1)	The authentication method used for this user. It can be: <ul style="list-style-type: none">• eap-md5• eap-sim• eap-aka• eap-tls• eap-itls• leap• peap• eap-mschap2
aaaIPAllocationType	Integer Min Inclusive = 0 Max Inclusive = 3	Optional (0-1)	The policy of IP address allocation. There are 4 types: <ul style="list-style-type: none">• 0: Default value. Assign IP address from the RADIUS client-related IP address pool(s) if the field Framed-IP-Address is contained in Access-Request message when the user is authenticated successfully, otherwise, do not assign IP address.• 1: Static assignment - The field aaaIPAllocationValue is to be set using a static IP address. This IP is assigned each time to the user when the user is authenticated successfully.• 2: Assign IP from a specific IP address pool - The field aaaIPAllocationValue is to be set using an existent AAAIPPool. One available IP address from the specific IP pool is assigned when the user is authenticated successfully.• 3: Assign IP from the RADIUS client related IP address pool(s) - The field aaaIPAllocationValue does not need any value (even if configured, server do not care). An address is assigned from one of the pools associated with the RADIUS client when a user is authenticated successfully.
aaaIPAllocationValue	String Min Length = 1 Max Length = 128	Optional (0-1)	The content of the policy that defines the IP address is allocated from which pool or address. Refer to description of the aaaIPAllocationType field.



Table 1 Create AAA User Parameters

Parameter	Type	Occurrence	Description
aaaIPv6PrefixAllocationType	Integer Min Inclusive = 0 Max Inclusive = 3	Optional (0-1)	<ul style="list-style-type: none"> 0: Default value - Assign IPv6 prefix from the RADIUS client-related IPv6 prefix pool(s) if the field Framed-IPv6-Prefix is contained in the Access-Request message when the user is authenticated successfully, otherwise do not assign IPv6 prefix. 1: Static assignment - The field aaaIPv6PrefixAllocationValue is to be set using a static IPv6 prefix. This IPv6 prefix is assigned each time to the user when authenticated successfully. 2: Assign IPv6 prefix from a specific IPv6 prefix pool - The field aaaIPv6PrefixAllocationValue is to be set using an existent AAAIPv6PrefixPool. One available IPv6 prefix from this specific IPv6 prefix pool is assigned when the user is authenticated successfully. 3: Assign IPv6 prefix from the RADIUS client-related IPv6 prefix pool(s) - The field aaaIPv6PrefixAllocationValue does not need any value (even if configured, the server excludes the configured value). An IPv6 prefix is assigned from one of the pools associated with the RADIUS client based on APN selection when a user is authenticated successfully.
aaaIPv6PrefixAllocationValue	String Min Length = 1 Max Length = 128	Optional (0-1)	The content of the policy that defines the IP address is allocated from which pool or address specified in the aaaIPv6PrefixAllocationType field.
aaaGroupName	String Min Length = 1 Max Length = 64	Optional (0-10)	The name of the group.
aaaPolicy	Sub-MO	Optional (0-1)	
aaaIndividualPolicy	Sub-MO	Optional (0-10)	List of the individual policies. The user can have multiple policies.
aaaIndividualPolicyName	Integer Min Inclusive = 1 Max Inclusive = 10	Mandatory ⁽¹⁾	The name of the policy.
aaaIndividualPolicyChecklist	String Min Length = 1 Max Length = 1024	Optional (0-1)	The checklist is a check rule of the policy. It is used to check whether the coming AVPs are matched with this check rule. All the AVP names are to conform to the AVP name in RFC, except the build-in AVPs such as System-Time.
aaaIndividualPolicyReplylist	String Min Length = 1 Max Length = 1024	Optional (0-1)	The reply list is a reply rule of the policy. If the Access-Request message is authorized successfully, the reply rule is added to the Access-Accept message.
aaaSharedPolicyName	String Min Length = 1 Max Length = 64	Optional (0-10)	The name of the policy.

(1) This parameter is mandatory if the Sub-MO, to which the parameter belongs, is selected.



2.1.2 AAMSUIP Result File Schema

```
<!-- edited with XMLSpy v2008 rel. 2 sp2 (http://www.altova.com) by David (Ericsson AB) -->
<xs:schema xmlns="http://schemas.ericsson.com/ma/IPWORKS/" xmlns:xs="http://www.w3.org/2001/XMLSchema" targetNameSpace="http://schemas.ericsson.com/ma/IPWORKS/">
  <xs:include schemaLocation="../../types/aaala_types.xsd"/>
  <xs:element name="AAAUserData">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="AAAUser" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="aaaUserName" type="aaaUserNameType"/>
              <xs:element name="aaaUserPassword" type="aaaUserPasswordType" minOccurs="0"/>
              <xs:element name="aaaAuthenticationMethod" type="aaaAuthenticationMethodType" minOccurs="0"/>
              <xs:element name="aaaIPAllocationType" type="aaaIPAllocationTypeType" minOccurs="0"/>
              <xs:element name="aaaIPAllocationValue" type="aaaIPAllocationValueType" minOccurs="0"/>
              <xs:element name="aaaIPv6PrefixAllocationType" type="aaaIPv6PrefixAllocationTypeType" minOccurs="0"/>
              <xs:element name="aaaIPv6PrefixAllocationValue" type="aaaIPv6PrefixAllocationValueType" minOccurs="0"/>
              <xs:element name="associatedimsi" type="aaaAssociatedImsiType" minOccurs="0">
                <xs:element name="aaaGroupName" minOccurs="0" maxOccurs="10"/>
              <xs:element name="aaaPolicy" minOccurs="0">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="aaaIndividualPolicy" minOccurs="0" maxOccurs="10">
                      <xs:complexType>
                        <xs:sequence>
                          <xs:element name="aaaIndividualPolicyName" type="aaaIndividualPolicyNameType"/>
                          <xs:element name="aaaIndividualPolicyChecklist" type="aaaIndividualPolicyChecklistType" minOccurs="0"/>
                          <xs:element name="aaaIndividualPolicyReplylist" type="aaaIndividualPolicyReplylistType" minOccurs="0"/>
                        </xs:sequence>
                      </xs:complexType>
                    </xs:element>
                    <xs:element name="aaaSharedPolicyName" minOccurs="0" maxOccurs="10"/>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

Example 1 AAMSUIP Result File Schema

2.2 Print AAA Groups (AAMSUGP)

This command prints all AAA Groups.

2.2.1 AAMSUGP Request

Command Description:

```
AAMSUGP: [GRPNames=grpnames] [, SPNames=spnames] ;
```

Example of an AAMSUGP command

```
AAMSUGP ;
```

This CLI command prints all AAA groups.



The following table covers the attributes that can be received in AAA Groups Result File.

Table 2 Attributes

Parameter	Type	Occurrence	Description
aaaGroupName	String Min Length = 1 Max Length = 64	Mandatory	The name of the group
aaaSharedPolicyName	String Min Length = 1 Max Length = 64	Optional (0-10)	The name of the policy

2.2.2 AAMSUGP Result File Schema

```
<xs:element name="AAAGroupData">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="AAAGroup" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="aaaGroupName" type="aaaGroupNameType"/>
            <xs:element name="aaaSharedPolicyName" minOccurs="0" maxOccurs="10"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Example 2 AAMSUGP Result File Schema

2.3 Print AAA Policies (AAMSUPP)

This command prints all AAA policies.

2.3.1 AAMSUPP Request

Command Description:

```
AAMSUPP: [PNAMES=pnames] ;
```

Example of an AAMSUPP command

AAMSUPP ; This CLI command prints all AAA policies.

The following table covers the attributes that can be received in search orders AAA Policies Result File.

**Table 3** *Attributes*

Attribute	Type	Occurrence	Description
aaaPolicyName	String Min Length = 1 Max Length = 64	Mandatory	The name of the policy.
aaaPolicyChecklist	String Min Length = 1 Max Length = 1024	Optional (0-1)	The checklist is a check rule of the policy. It is used to check whether the coming AVPs are matched with this check rule. All the AVP names are to conform to the AVP name in RFC, except the build-in AVPs such as System-Time.
aaaPolicyReplylist	String Min Length = 1 Max Length = 1024	Optional (0-1)	The reply list is a reply rule of the policy. If the Access-Request message is authorized successfully, the reply rule is added to the Access-Accept message

2.3.2 AAMSUPP Result File Schema

```
<xs:element name="AAAPolicyData">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="AAAPolicy" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="aaaPolicyName" type="aaaPolicyNameType" />
            <xs:element name="aaaPolicyChecklist" type="aaaPolicyChecklistType" minOccurs="0" />
            <xs:element name="aaaPolicyReplylist" type="aaaPolicyReplylistType" minOccurs="0" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Example 3 AAMSUPP Result File Schema



3 AAA Massive Update Commands

This section covers all AAA Massive Update commands. These commands have the purpose of updating the settings of group and policy. All Massive Update commands generate response files, rather than echoing the answer directly back to the client.

The following AAA Massive Update commands are available:

- End Group (AAMSUGE) Section 3.1 on page 9
- End Policy (AAMSUPE) Section 3.2 on page 11

3.1 End Group (AAMSUGE)

The End Group CLI allows requesting of the following information:

- Delete all owning alias group name entries under AA entry in all mscId objects.
- Delete group name entry under AA groups entry in mscCommonData object.

3.1.1 AAMSUGE Request

Command Description:

AAMSUGE:GRPNAME=grpname;

Example of an AAMSUGE command

AAMSUGE:GRPNAME="group1"; This CLI command remove "group1" group and its alias which is used in users.

The following table explains the attributes that can be used in an AAMSUGE request.

Table 4 Attributes

Parameter	Type	Occurrence	Description
GRPNAME	String Min Length = 1 Max Length = 64	Mandatory	The name of the group



3.1.2 AAMSUGE Result File Schema

```
<xs:element name="AAAGroupData" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="MassiveUpdateConditions">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="grpname" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="FailedUpdates" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="User" maxOccurs="unbounded">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="aaaUserName" type="xs:string" />
                  <xs:element name="FaultReason">
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="code" type="xs:integer" />
                        <xs:element name="message" type="xs:string" />
                        <xs:element name="additionalinfo" type="xs:string" minOccurs="0" />
                      </xs:sequence>
                    </xs:complexType>
                  </xs:element>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="MassiveUpdateStatistics">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="starttime" type="xs:string" />
            <xs:element name="stoptime" type="xs:string" />
            <xs:element name="NumberOfChangedUsers" type="xs:integer" />
            <xs:element name="NumberOfFailedUsers" type="xs:integer" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Example 4 AAMSUGE Result File Schema

The following table covers the attributes that can be received in a AAMSUGE response.

Note: Error codes printed in the `FaultReason` element are related to the monitoring call forwarding registration activation or deactivation for a single subscriber. These errors do not stop the massive update.

If an error stops the massive update, that error code is returned in the generic XML structure, which is outside the previous schema. The generic XML structure for file responses is specified in document Introduction to CLI for Layered Applications.



Table 5 Result Attributes

Parameter					Type	Occurrence	Description
AAAGroupData					Sub-MO	Optional (0-1)	
	MassiveUpdateConditions				Sub-MO	Mandatory ⁽¹⁾	
		grpname			String	Mandatory	The name of the group
	FailedUpdates				Sub-MO	Optional (0-1)	
		User			Sub-MO	Mandatory ⁽¹⁾ (1-n)	
			aaaUserName		String	Mandatory	The name of the user
			FaultReason		Sub-MO	Mandatory	
				code	Integer	Mandatory	The error code
				message	String	Mandatory	The error message
				additionalinfo	String	Optional (0-1)	Additional info about the error
	MassiveUpdateStatistics				Sub-MO	Mandatory ⁽¹⁾	
		starttime			String	Mandatory	The start time for the massive change
		stoptime			String	Mandatory	The stop time for the massive change
		NumberOfChangedUsers			Integer	Mandatory	Number of successfully updated users
		NumberOfFailedUsers			Integer	Mandatory	Number of failed users

(1) This parameter is mandatory if the Sub-MO, to which the parameter belongs, is selected.

3.2 End Policy (AAMSUPE)

The End Policy CLI allows requesting of the following information:

- Delete all owning alias shared policy name entries under AA entry in all `mscId` objects.
- Delete all owning alias shared policy name entries under group name entry in `mscCommonData` object.
- Delete policy name entry under AA Policies entry in `mscCommonData` object

3.2.1 AAMSUPE Request

Command Description:

AAMSUPE : PNAME=pname;



Example of an AAMSUPE command

`AAMSUPE:PNAME="AAPolicy0"` ; This CLI command remove "AAPolicy0" policy and its alias which is used in users and groups.

The following table explains the attributes that can be used in an AAMSUPE request.

Table 6 Attributes

Parameter	Type	Occurrence	Description
PNAME	String Min Length = 1 Max Length = 64	Mandatory	The name of the policy



3.2.2

AAMSUPE Result File Schema

```
<xs:element name="AAPolicyData" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="MassiveUpdateConditions">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="pname" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="FailedUpdates" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="User" minOccurs="0" maxOccurs="unbounded">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="aaaUserName" type="xs:string" />
                  <xs:element name="FaultReason">
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="code" type="xs:integer" />
                        <xs:element name="message" type="xs:string" />
                        <xs:element name="additionalinfo" type="xs:string" minOccurs="0" />
                      </xs:sequence>
                    </xs:complexType>
                  </xs:element>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="Group" minOccurs="0" maxOccurs="unbounded">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="aaaGroupName" type="xs:string" />
                  <xs:element name="FaultReason">
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="code" type="xs:integer" />
                        <xs:element name="message" type="xs:string" />
                        <xs:element name="additionalinfo" type="xs:string" minOccurs="0" />
                      </xs:sequence>
                    </xs:complexType>
                  </xs:element>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="MassiveUpdateStatistics">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="starttime" type="xs:string" />
            <xs:element name="stoptime" type="xs:string" />
            <xs:element name="NumberOfChangedUsers" type="xs:integer" />
            <xs:element name="NumberOfFailedUsers" type="xs:integer" />
            <xs:element name="NumberOfChangedGroups" type="xs:integer" />
            <xs:element name="NumberOfFailedGroups" type="xs:integer" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Example 5 AAMSUPE Result File Schema

The following table covers the attributes that can be received in a AAMSUPE response.



Note: Error codes printed in the `FaultReason` element are related to the monitoring call forwarding registration activation or deactivation for a single subscriber. These errors do not stop the massive update.

If an error stops the massive update, that error code is returned in the generic XML structure, which is outside the previous schema. The generic XML structure for file responses is specified in document Introduction to CLI for Layered Applications.

Table 7 *Result Attributes*

Parameter					Type	Occurrence	Description	
AAAPolicyData					Sub-MO	Optional (0-1)		
	MassiveUpdateConditions				Sub-MO	Mandatory ⁽¹⁾		
		pname			String	Mandatory	The name of the policy	
	FailedUpdates				Sub-MO	Optional (0-1)		
		User			Sub-MO	Optional (1-n)		
			aaaUserName			String	Mandatory ⁽¹⁾	The name of the user
			FaultReason			Sub-MO	Mandatory ⁽¹⁾	
				code	Integer	Mandatory	The error code	
				message	String	Mandatory	The error message	
				additionalinfo	String	Optional (0-1)	Additional info about the error	
		Group			Sub-MO	Optional (1-n)		
			aaaGroupName			String	Mandatory ⁽¹⁾	The name of the group
			FaultReason			Sub-MO	Mandatory ⁽¹⁾	
				code	Integer	Mandatory	The error code	
				message	String	Mandatory	The error message	
				additionalinfo	String	Optional (0-1)	Additional info about the error	
	MassiveUpdateStatistics				Sub-MO	Mandatory ⁽¹⁾		
		starttime			String	Mandatory	The start time for the massive change	
		stoptime			String	Mandatory	The stop time for the massive change	
		NumberOfChangedGroups			Integer	Mandatory	Number of changed groups	
		NumberOfFailedGroups			Integer	Mandatory	Number of failed groups	

⁽¹⁾ This parameter is mandatory if the Sub-MO, to which the parameter belongs, is selected.



4 Faults or Errors

The CLI error codes can appear both directly in the prompt, and in the result files. Besides the generic and common error codes, the CLI commands can also return some more specific error codes.

4.1 General CLI Errors

The following table covers Dynamic Activation internal error codes. They can appear in any CLI responses.

Table 8 General Dynamic Activation Internal Error Codes

Error Code	Error Message
1001	Invalid resource.
1002	Invalid XPath.
1003	Unrecognized namespace. No data view associated.
1004	Access denied. Invalid principal or credentials.
1005	Not authorized to perform current operation on selected data view.
1006	Invalid parameter.
1007	The XPath failed to match any data in the processed XML.
1008	Failed to provision data.
1009	Unsupported operation.
1093	Could not process request because of limit of max number of concurrent ongoing CLI transactions reached.
1095	Communication error while interacting with a Network Element.
1096	Time-out expired during wait for answer from Network Element.
1097	Failure during processing of the request.
1098	Could not process request because of resource limitation.
1099	System error.
1100	Execution was canceled
1101	External error
1103	License error

4.2 Command Mapped Errors

This section covers layered AAA in IPWorks provisioning interface errors that are mapped towards certain commands. The commands listed in this section can be assumed to be stopping, unless "(not stopping)" is stated. They are listed in the following table along with the commands that can return them.



Table 9 Command Mapped Errors

Error Code	Error Message	Command
18002	AAA USER NOT DEFINED	AAMSUIP
18005	AAA GROUP NOT DEFINED	AAMSUGP
		AAMSUGE
18009	AAA POLICY NOT DEFINED	AAMSUPP
		AAMSUPE



Reference List

Ericsson Documents

- [1] *Glossary of Terms and Acronyms*, 0033-CSH 109 628 Uen
- [2] *Library Overview*, 18/1553-CSH 109 628 Uen
- [3] *Generic CLI Interface Specification*, 15/155 19-CSH 109 628 Uen