

# SAAL SSCF-NNI for ITU

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## STATEMENT OF COMPLIANCE

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# Contents

<b>1</b>	<b>General</b>	<b>1</b>
1.1	Introduction	1
1.2	Terms	1
1.3	Concept	1
1.4	History	2
<b>2</b>	<b>Compliance List</b>	<b>3</b>
2.1	SSCF-NNI (ITU-T Q.2140)	3
<b>3</b>	<b>Notes</b>	<b>7</b>
	<b>Reference List</b>	<b>9</b>





# 1 General

## 1.1 Introduction

Ericsson AB SSCF NNI ITU version R1 is compliant with the ITU-T standard Reference [1] according to the Table 2 in this document.

## 1.2 Terms

<b>ATM</b>	Asynchronous Transfer Mode
<b>B-ISDN</b>	Broadband Integrated Services Network
<b>FSN</b>	Forward Sequence Number
<b>ITU-T</b>	International Telecommunication Union - Telecommunication
<b>LM</b>	Layer Management
<b>MTP</b>	Message Transfer Part
<b>NNI</b>	Node Network Interface
<b>PC</b>	Protocol Capabilities
<b>PDU</b>	Protocol Data Unit
<b>PICS</b>	Protocol Implementation Conformance Statement
<b>SAAL</b>	Signaling ATM Adaptation layer
<b>SoC</b>	Statement of Compliance
<b>SP</b>	System Parameters
<b>SSCF</b>	Service Specific Coordination Functions
<b>SSCOP</b>	Service Specific Connection Oriented Protocol

## 1.3 Concept

The terms that are used are:

<b>C</b>	Ericsson module complies with the specified paragraph in the standard.
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- N** Ericsson module does not comply with the specified paragraph in the standard.
- P** Ericsson module complies partly with the specified paragraph in the standard. Specify in a note what in the module that does comply and what that does not.
- There is nothing to implement in the referred section (used in column C).

## 1.4 History

Table 1

Revision	Date	Autor	Comment
A	2002-08-09	Mats Jarlstedt	Approved after document inspection.
B	2007-02-19	XMRALBA	Converted to XML format
C	2007-09-27	XMREVEF	Minor changes



## 2 Compliance List

### 2.1 SSCF-NNI (ITU-T Q.2140)

Table 2 Compliance List, SSCF-NNI (ITU-T Q.2140)

	References	C	N	P	Comments
1.	Scope	-			
2.	Normative References	-			
3.	Abbreviations	-			
4.	General	-			
5.	Services provided by the SAAL at the NNI	X			
6.	Functions of the SSCF at the NNI	-			
6.1	Functions with no peer-to-peer messages	X			
6.1.1	Mapping	X			
6.1.2	Local retrieve	X			
6.1.3	Flow control			X	See Note 1.
6.1.4	Change link status	X			
6.1.5	Reporting to layer management	X			
6.2	Functions with peer-to-peer messages	X			
6.2.1	Processor outage	X			
6.2.2	Alignment procedure	X			
6.3	Signalling protocol stack for NNI	X			
7.	Definition of the boundary between the SSCF with Layer 3 at the NNI	-			
7.1	Primitives	X			
7.2	State transition diagram	X			
8.	Definition of the boundary between the SSCF at the NNI and the SSCOP	-			

Table 2 Compliance List, SSCF-NNI (ITU-T Q.2140)

References		C	N	P	Comments
8.1	Repertoire of signals between SSCF and SSCOP	X			
8.2	Sequences of signals between SSCF and SSCOP	X			
9.	Definition of the boundary between the SSCF and the Layer Management	X			
10.	Protocol elements for peer-to-peer Communication	X			
11.	Default parameters and timers	X			
12.	State transition table of SSCF at the NNI	X			See Note 2 and Note 3.
Annex A, Protocol Implementation conformance Statement (PICS) pro forma to Recommendation Q.2140		-			
A.1	General	-			
A.2	Abbreviations and special symbols	-			
A.3	Instructions for completing the PICS pro forma	-			
A.4	Global statement of conformance	-			
A.5	SSCOP Recommendation Q.2110	-			
A.5.1	Protocol Capabilities (PC) SSCOP	-			
A.5.2	SSCOP PDUs Protocol Data Units (PD)	-			
A.5.3	SSCOP System Parameters (SP)	-			
A.6	SSCF at NNI Recommendation Q.2140	-			





*Table 2 Compliance List, SSCF-NNI (ITU-T Q.2140)*

<b>References</b>		<b>C</b>	<b>N</b>	<b>P</b>	<b>Comments</b>
A.6.1	SSCOP-SSCF NNI Protocol Capabilities (SNPC)	-			
A.6.2	SSCF at NNI System Parameters (SNSP)	-			
Appendix I, Impacts of SAAL on MTP-3		-			
I.1	Frame format of MTP-3 + B-ISUP message	-			
I.2	Octet transmission order	-			
I.3	Size of FSN in changeover message	-			
I.4	Proving ends due to a processor outage condition	-			
I.5	Automatic allocation of signalling data links	-			
Appendix II, Example time flow diagrams for connection establishment		-			
Appendix III, SDL Diagrams for the SSCF at the NNI		-			





## 3 Notes

- Note 1** Flow control of PDUs to layer 1 is not implemented in SSCF NNI. The interface to layer 1 is hardware dependent.
- Note 2** The default values described in the standard are for a 64 kbit/s link. In the product documents are the default values for a 2Mbit/s link.
- Note 3** Due to inconsistencies between the standards for LM (see Reference [2] ) and SSCF NNI, the LM standards version is used to implement AA\_RELEASE\_indication, source=user, when in state 3/10/5.





## Reference List

### ITU standards

- [1] *International Telecommunication Union, Telecommunication standardization Sector of ITU. B-ISDN ATM Adaptation Layer- Service Specific Coordination Function for signalling at the Network Node Interface (SSCF at NNI), Recommendation Q.2140 (02/95).*
- [2] *International Telecommunication Union, Telecommunication Standardization Sector of ITU. B-ISDN signalling ATM Adaptation Layer (SAAL)- Layer management for the SAAL at the Network Node Interface (NNI), Recommendation Q.2144 (10/95).*