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Inteligentno omrežje (IN) – Tretji nabor zmožnosti inteligentnega omrežja (CS3) – Aplikacijski protokol inteligentnega omrežja (INAP) – Specifikacija protokola – 3. del: Vmesnik SCF-SRF

Intelligent Network (IN); Intelligent Network Capability Set 3 (CS3); Intelligent Network Application Protocol (INAP); Protocol specification; Part 3: SCF-SRF interface

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**Intelligent Network (IN);
Intelligent Network Capability Set 3 (CS3);
Intelligent Network Application Protocol (INAP);
Protocol specification;
Part 3: SCF-SRF interface**

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Contents

Intellectual Property Rights	9
Foreword	9
1 Scope.....	10
2 References	10
3 Definitions and abbreviations.....	10
3.1 Definitions	10
3.2 Abbreviations.....	10
4 Relationships	10
4.1 SRF-CCF relationship	10
4.2 SCF-SRF relationship.....	10
5 SCF FE Model.....	10
6 SRF FE Model.....	11
6.1 Resource Control Part (RCP).....	12
6.1.1 SRF Resource Manager.....	12
6.1.2 Transaction Module	12
6.1.3 User Interaction-scripts (UI-Script)	12
6.1.4 Resource Logic Library.....	12
6.1.5 Resource Logic Instances	12
6.2 Resource Function Part (RFP).....	12
6.3 Data Part (DP).....	12
7 SRF application entity procedures.....	13
7.1 The SRF management finite state model (SRME FSM).....	13
7.2 The SRF call State Model: SRSM.....	14
7.2.1 State 1: "Idle"	15
7.2.2 State 2: "Connected"	16
7.2.3 State 3: "User interaction"	17
7.3 Example SRF control procedures.....	18
7.3.1 SRF connect procedures.....	19
7.3.1.1 SRF connect physical procedures.....	19
7.3.1.1.1 SSF relay	22
7.3.1.1.2 Direct Path SCP to IP	22
7.3.1.1.3 Assist with relay.....	23
7.3.1.1.4 Assist without relay	23
7.3.1.1.5 Hand-off	24
7.3.2 SRF end user interaction procedures.....	24
7.3.2.1 (PA/P&C/P&R).....	26
7.3.2.2 User Interaction Script	27
7.3.3 SRF disconnection procedures.....	27
7.3.3.1 SRF initiated disconnect	29
7.3.3.2 SCF Initiated Disconnect	29
7.3.4 Call-Unrelated Interaction	30
7.3.5 Examples Illustrating Complete User Interaction Sequences	31
7.3.5.1 SSP with integrated SRF.....	31
7.3.5.2 SSP relays messages between SCP and IP.....	32
7.3.5.3 Direct SCP-IP information transfer	34
7.3.5.4 SSP assist(relay SSP).....	35
7.3.5.5 Message sequences for service assist.....	36
7.3.5.6 Message sequences for hand-off.....	37
7.3.6 Example illustrating the use of SDSS	38
8 SCF Application Entity procedure.....	39
8.1 The SCF Management state model for SRF.....	39

8.1.1	The Activity Test FSM.....	40
8.1.1.1	State M1: "Activity test idle"	40
8.1.1.2	State M2: "Waiting for activity test response"	40
8.1.2	The Call GAP FSM.....	40
8.1.2.1	State M1: "idle"	41
8.1.2.2	State M3: "Call GAP Active"	41
8.2	The SCF Call State Model (SCSM): FSM for specialized resource	41
8.2.1	State R1: "SRF Control Idle"	42
8.2.2	State R2: "Controlling SRF"	42
9	Detailed Operation procedure	44
9.1	ActivityTest procedure	44
9.1.1	General description	44
9.1.2	Parameters	44
9.1.2.1	Argument Parameters	44
9.1.3	Invoking entity (SCF)	44
9.1.3.1	Normal procedure.....	44
9.1.3.2	Error handling	44
9.1.4	Responding entity (SRF).....	44
9.1.4.1	Normal procedure.....	44
9.1.4.2	Error handling	44
9.2	AssistRequestInstructions procedure.....	45
9.2.1	General description	45
9.2.2	Parameters	45
9.2.2.1	Argument Parameters	45
9.2.3	Invoking entity (SRF)	45
9.2.3.1	Normal procedure.....	45
9.2.3.2	Error handling	45
9.2.4	Responding entity (SCF).....	45
9.2.4.1	Normal procedure.....	45
9.2.4.2	Error handling	46
9.3	Cancel procedure.....	46
9.3.1	General description.....	46
9.3.2	Parameters	46
9.3.2.1	Argument Parameters	46
9.3.3	Invoking entity (SCF)	47
9.3.3.1	Normal procedure.....	47
9.3.3.2	Error handling	47
9.3.4	Responding entity (SRF).....	47
9.3.4.1	Normal procedure.....	47
9.3.4.2	Error handling	47
9.3.5	Responding entity (SSF)	47
9.4	ConnectToResource procedure	47
9.5	DisconnectForwardConnection procedure.....	47
9.6	DisconnectForwardConnectionWithArgument procedure.....	48
9.7	EstablishTemporaryConnection procedure	48
9.8	PlayAnnouncement procedure	48
9.8.1	General description	48
9.8.2	Parameters	48
9.8.2.1	Argument Parameters	48
9.8.3	Invoking entity (SCF)	49
9.8.3.1	Normal procedure.....	49
9.8.3.2	Error handling	49
9.8.4	Responding entity (SRF).....	49
9.8.4.1	Normal procedure.....	49
9.8.4.2	Error handling	50
9.9	PromptAndCollectUserInformation procedure	50
9.9.1	General description	50
9.9.2	Parameters	50
9.9.2.1	Argument Parameters	50
9.9.2.2	Result Parameters	51
9.9.3	Invoking entity (SCF)	51

9.9.3.1	Normal procedure.....	51
9.9.3.2	Error handling	51
9.9.4	Responding entity (SRF)	52
9.9.4.1	Normal procedure.....	52
9.9.4.2	Error handling	53
9.10	PromptAndReceiveMessage procedure	53
9.10.1	General description	53
9.10.2	Parameters	53
9.10.2.1	Argument Parameters	53
9.10.2.2	Result Parameters	54
9.10.3	Invoking entity (SCF)	54
9.10.3.1	Normal procedure.....	54
9.10.3.2	Error handling	54
9.10.4	Responding entity (SRF)	55
9.10.4.1	Normal procedure.....	55
9.10.4.2	Error handling	55
9.11	ReportUTSI procedure	55
9.12	RequestReportUTSI procedure	55
9.13	SendSTUI procedure	56
9.14	ScriptClose procedure.....	56
9.14.1	General description	56
9.14.2	Parameters	56
9.14.2.1	Argument Parameters	56
9.14.3	Invoking entity (SCF)	56
9.14.3.1	Normal procedure.....	56
9.14.3.2	Error handling	56
9.14.4	Responding entity (SRF)	57
9.14.4.1	Normal procedure.....	57
9.14.4.2	Error handling	57
9.15	ScriptEvent procedure.....	57
9.15.1	General Description	57
9.15.2	Parameters	57
9.15.2.1	Argument Parameters	57
9.15.3	Invoking entity (SRF)	58
9.15.3.1	Normal procedure.....	58
9.15.3.2	Error handling	58
9.15.4	Responding entity (SCF)	59
9.15.4.1	Normal procedure.....	59
9.15.4.2	Error handling	59
9.16	ScriptInformation procedure.....	59
9.16.1	General description	59
9.16.2	Parameters	59
9.16.2.1	Argument Parameters	59
9.16.3	Invoking entity (SCF)	60
9.16.3.1	Normal procedure.....	60
9.16.3.2	Error handling	60
9.16.4	Responding entity (controlling SRF)	60
9.16.4.1	Normal procedure.....	60
9.16.4.2	Error Handling.....	60
9.17	ScriptRun procedure.....	60
9.17.1	General description	60
9.17.2	Parameters	61
9.17.2.1	Argument Parameters	61
9.17.3	Invoking entity (SCF)	61
9.17.3.1	Normal procedure.....	61
9.17.3.2	Error handling	61
9.17.4	Responding entity (SRF)	61
9.17.4.1	Normal procedure.....	61
9.17.4.2	Error handling	62
9.18	SpecializedResourceReport procedure	62
9.18.1	General description	62
9.18.2	Parameters	62

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9.18.2.1	Argument Parameters	62
9.18.3	Invoking entity (SRF)	62
9.18.3.1	Normal procedure.....	62
9.18.3.2	Error handling	62
9.18.4	Responding entity (SCF).....	63
9.18.4.1	Normal procedure.....	63
9.18.4.2	Error handling	63
9.19	SRFCallGap procedure.....	63
9.19.1	General description	63
9.19.2	Parameters	63
9.19.2.1	Argument Parameters	63
9.19.3	Invoking entity (SRF)	64
9.19.3.1	Normal procedure.....	64
9.19.3.2	Error handling	64
9.19.4	Responding entity (SCF).....	64
9.19.4.1	Normal procedure.....	64
9.19.4.2	Error handling	65
10	Parameters	65
10.1	CallSegmentID.....	65
10.2	CallSegmentToCancel	65
10.3	CollectedInfo	65
10.4	ControlType	67
10.5	Digits	67
10.6	CorrelationID	68
10.7	DisconnectFromIPForbidden	68
10.8	GapIndicators.....	68
10.9	InformationToRecord	68
10.10	InformationToSend	69
10.11	LastEventIndicator	70
10.12	LegID	70
10.13	Media.....	70
10.14	MailBoxID.....	70
10.15	ReceivedStatus	70
10.16	RecordedMessageID.....	70
10.17	RecordedMessageUnits	71
10.18	RequestAnnouncementComplete	71
10.19	SRFgapCriteria	71
10.20	SubscriberID	71
10.21	UIScriptId	71
10.22	UIScriptResultInfo	71
10.23	UIScriptSpecificInfo.....	71
11	Error procedures	72
11.1	Operation related error procedures	72
11.1.1	Cancelled.....	72
11.1.1.1	Operations SCF->SRF	72
11.1.1.1.1	Procedures at invoking entity (SCF)	72
11.1.1.1.2	Procedures at responding entity (SRF)	73
11.1.2	ImproperCallerResponse	73
11.1.2.1	Operations SCF->SRF	73
11.1.2.1.1	Procedures at invoking entity (SCF)	73
11.1.2.1.2	Procedures at responding entity (SRF)	73
11.1.3	MissingCustomerRecord	74
11.1.3.1	Operations SCF->SRF	74
11.1.3.2	Operations SRF->SCF	74
11.1.3.2.1	Procedures at invoking entity (SRF)	74
11.1.3.2.2	Procedures at responding entity (SCF)	74
11.1.4	MissingParameter	74
11.1.4.1	Operations SCF->SRF	74
11.1.4.1.1	Procedures at invoking entity (SCF)	74
11.1.4.1.2	Procedures at responding entity (SRF)	75

11.1.4.2	Operations SRF->SCF	75
11.1.4.2.1	Procedures at invoking entity (SRF)	75
11.1.4.2.2	Procedures at responding entity (SCF)	75
11.1.5	ParameterOutOfRange	75
11.1.5.1	Operations SCF->SRF	75
11.1.6	SystemFailure	76
11.1.6.1	Operations SCF->SRF	76
11.1.6.2	Operations SRF->SCF	76
11.1.7	TaskRefused	76
11.1.7.1	Operations SCF->SRF	76
11.1.7.2	Operations SCF->SRF	76
11.1.7.3	Operations SRF->SCF	76
11.1.8	UnavailableResource	76
11.1.8.1	Operations SCF->SRF	76
11.1.8.2	Operations SCF->SRF	76
11.1.8.2.1	Procedures at invoking entity (SCF)	76
11.1.8.2.2	Procedures at responding entity (SRF)	77
11.1.9	UnexpectedComponentSequence	77
11.1.9.1	Operations SCF->SRF	77
11.1.9.2	Operations SRF->SCF	77
11.1.10	UnexpectedDataValue	77
11.1.10.1	Operations SCF->SRF	77
11.1.10.2	Operations SCF->SRF	78
11.1.10.3	Operations SRF->SCF	78
11.1.11	UnexpectedParameter	78
11.1.11.1	Operations SCF->SRF	78
11.1.11.2	Operations SRF->SCF	78
11.1.12	UnknownLegID	78
11.1.12.1	Operations SCF->SRF	78
11.1.13	UnknownSubscriber	78
11.1.13.1	Operations SCF->SRF	78
11.1.14	Expiration of TSRF	79
11.1.14.1	General Description	79
11.1.14.1.1	Error description	79
11.1.14.2	Procedures SRF->SCF	79
11.1.14.2.1	Procedures at the invoking entity (SRF)	79
11.1.14.2.2	Procedures at the responding entity (SCF)	79
12	ASN.1 Definition	79
12.1	IN CS-3 Types	79
12.1.1	Data Types	79
12.1.2	Classes	82
12.2	Operations and Arguments	84
12.3	Package, contracts and Application Contexts	90
12.3.1	ASN.1 modules	90
13	Services assumed from TCAP	93
13.1	Normal Procedures	93
13.1.1	SCF-to/from-SRF messages	93
13.2	Abnormal Procedures	93
13.2.1	SCF-to-SRF messages	93
13.2.2	SRF/-to-SCF messages	94
13.3	Dialogue Handling	94
13.3.1	Dialogue Establishment	94
13.3.2	Dialogue Continuation	94
13.3.3	Dialogue Termination	94
13.3.4	User Abort	94
13.3.5	Provider Abort	94
13.3.6	Mapping to TC Dialogue Primitives	94
13.3.7	Component Handling	95
13.3.7.1	Procedures for INAP Operations	95
13.3.7.2	Mapping to TC Component Parameters	95

History 96

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SIST EN 301 931-3 V1.1.2:2005

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 3 of a multi-part deliverable covering Intelligent Network (IN); Intelligent Network Application Protocol (INAP); Capability Set 3 (CS3); Protocol specification, as identified below:

Part 1: "Common aspects";

Part 2: "SCF-SSF interface";

Part 3: "SCF-SRF interface";

Part 4: "SDLs for SCF-SSF interface";

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The present document and parts 1, 2 and 4 define the Intelligent Network (IN) Application Protocol (INAP) for IN Capability Set 3 (IN CS-3). The present document and parts 1, 2 and 4 define the INAP for IN CS-3 based upon ETSI Core INAP CS-2 (EN 301 140-1) and ITU-T IN CS3 Recommendation Q.1238 (1999).

The structure of the present document and parts 1, 2 and 4 follows the ITU-T Recommendation Q.1238 rather than that usual for an ETSI deliverable.

National transposition dates

Date of adoption of this EN:	31 August 2001
Date of latest announcement of this EN (doa):	30 November 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 May 2002
Date of withdrawal of any conflicting National Standard (dow):	31 May 2002

1 Scope

The present document is part 3 of a multi-part deliverable for IN CS-3. The part 3 covers the SCF-SRF interface including the description of the aspects of the Functional Entities SRF and SCF which are relevant to this interface.

2 References

All documents referred to in the present document are identified in EN 301 931-1.

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 301 931-1 apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations and acronyms given in EN 301 931-1 apply.

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4 Relationships(standards.iteh.ai)

4.1 SRF-CCF relationship

At present, it is considered that the CCF is under control of the SSF: a SRF-SSF/CCF relationship exists for connection control to specialized resources.

The relationship between the SRF and the CCF is not defined (e.g. in the case of releasing a connection on which a resource is used). The SRF may contain functionality similar to the CCF to manage bearer connections to specialized resources, but no call model is specified.

4.2 SCF-SRF relationship

This SCF-SRF relationship is used when the SCF sends instructions to the SRF.

The SCF-SRF relationship could be a direct link or established via a relay through the SSF.

In some cases, this SCF-SRF relationship is used when the SCF delegates some of the service logic to the SRF, which executes a specialized type of service logic, known as *User Interaction-scripts*. This can avoid long response times, which are unavoidable if functions are physically distributed over two networks nodes, the SCP and the IP.

In assisting scenarios the SRF establishes the relationship towards the SCF.

5 SCF FE Model

The prime function of the Service Control Function (SCF) is the execution of service logic. Service logics interfaces and interacts with the Service Switching and Call Control Function for establishing End User Interaction to send and receive information. Specialized resources used in the context of End user interaction are managed by the Specialized Resource Function (SRF) and controlled by the Service Control functionality.

6 SRF FE Model

This clause describes the various components found within an SRF. It is noted that this shows a conceptual model of SRF and is not intended to imply an actual implementation of the SRF.

Main SRF components are:

- a) Functional Entity Access Manager (FEAM);
- b) SRF Resource Manager (RM);
- c) Resources.

The SRF Resource Manager is contained in a block called Resource Control Part along with the Resource Logic Library and the Resource Logic Instances; it is possible to split the Resources in the following blocks:

- a) Resource Function Part (RFP);
- b) Data Part (DP).

Enhancements of the SRF components are described in the following clauses and in figure 1.

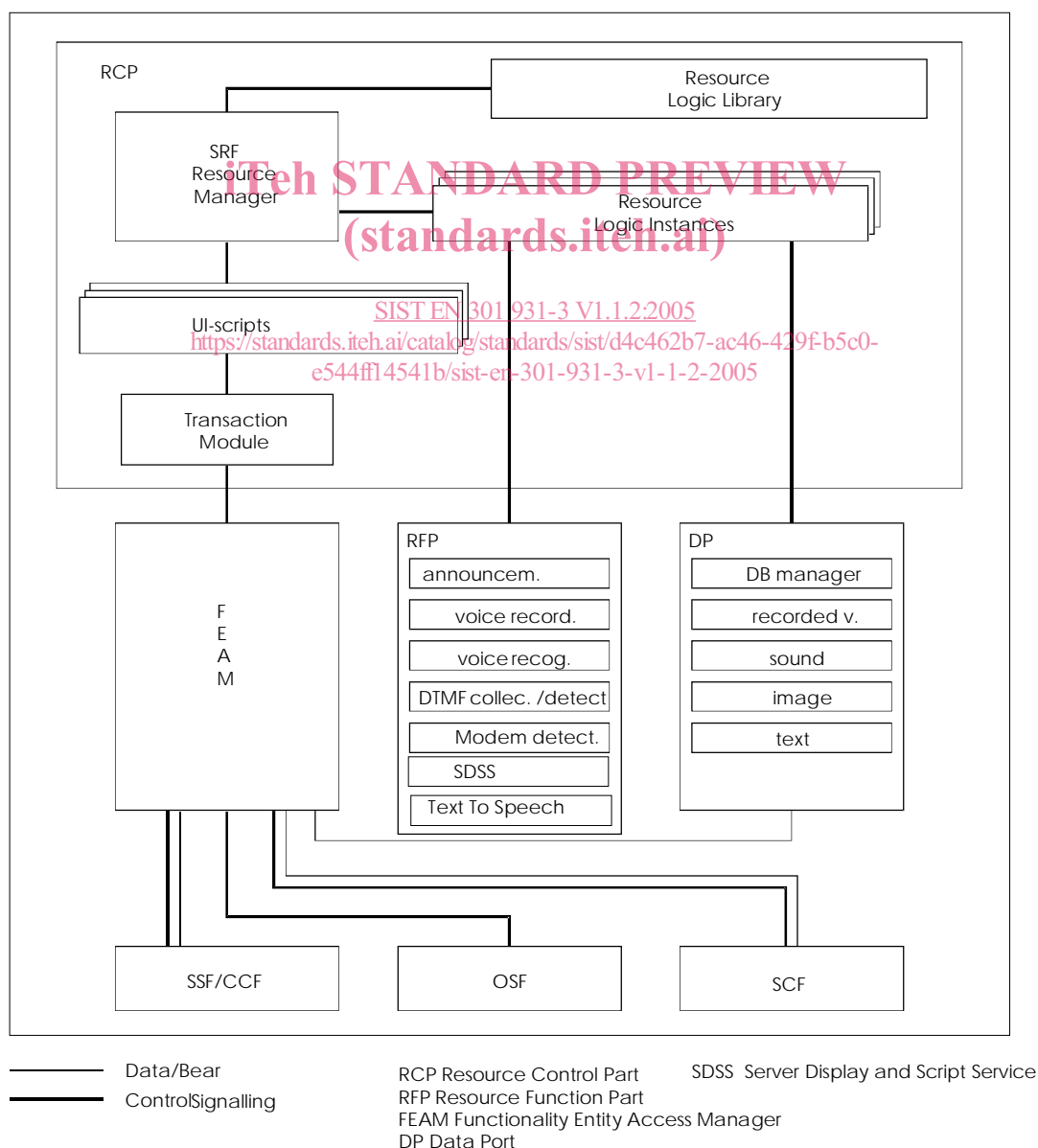


Figure 1: SRF FE Model

6.1 Resource Control Part (RCP)

The RCP contains SRF service logic, and controls the service procedure using the capabilities of other blocks. To offer a specialized resource, RCP uses resource-function pair in the RFP and data in the DP.

Whenever RCP receives a call requesting a specialized resource-function pair, it invokes the internal resource controller, which manages the first needed resource function pair to make a decision of admission or rejection of the call. The SRF sends ACK or NACK messages according to the decision by the resource controller.

There are as many controllers as there are special resource function types. The controllers accept or reject calls requesting a resource-function pair on the basis of characteristic parameters. A controller consists of an interface unit and a decision unit. First one encodes and decodes messages from/to the FEAM, and makes the input patterns for the decision unit; the characteristic parameter permitting the acceptance or rejection of the call controlled by an algorithm within the decision unit, and is based on the parameters from the interface unit.

6.1.1 SRF Resource Manager

The RM provides the functionality which is necessary for the SRF to manage the resources contained in it. The RM contains the capabilities to search for a resource, to allocate or de-allocate it, to manage the status of a resource, and to control its actions.

6.1.2 Transaction Module

The Transaction Module provides the functionality necessary for:

- detection of transactions from the communication links;
- routing of transactions to the right applications scripts.

6.1.3 User Interaction-scripts (UI-Script)

It provides to the SCF a vision of the different specialized resources functions that the SRF can perform. A User Interaction-script is an aggregation of Resource Function.

6.1.4 Resource Logic Library

It indicates the SRF Logic and Physic Resources that are necessary for a given User Interaction-script.

6.1.5 Resource Logic Instances

It instances the SRF resources that are necessary for the correct execution of the invoked specialized resource.

6.2 Resource Function Part (RFP)

The RFP is a collection of resource-function pairs or functional elements of resources. Resources in a resource-function pair for a service procedure, are allocated and released together.

6.3 Data Part (DP)

The DP is composed of a database manager and a database containing recorded voice, sound, image, text, etc.

7 SRF application entity procedures

As described in EN 301 931-1, the SRF-FSM handles interactions with the SSF FSM and the SCF FSM entity. The SRME-control interfaces to the various SRF call state models (SRSM) and the functional entity access manager (FEAM). The SRF-FSM structure is described in figure 2. The FEAM is described in EN 301 931-1.

General tasks of the SRME control is defined in EN 301 931-1. In addition to the general tasks, the SRME-control checks the existence of a SCF-SRF relationship by receiving an Activitytest operation from the SCF and returns the result to the SCF.

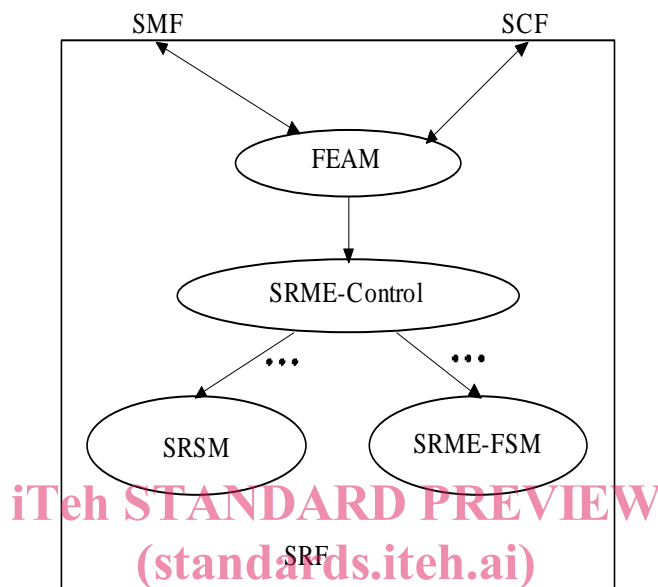


Figure 2: SRF FSM Structure

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In the following clauses the SRSM and SRME-FSM are described. -3-v1-1-2-2005

7.1 The SRF management finite state model (SRME FSM)

The SRME handles the following operation:

- sRFCallGap.

The sRFCallGap operation is issued within a context of an existing relationship and doesn't cause state transitions in the SRME.

All other operations have no effect on the SRME-FSMs; the operations are passed by the SRME-Control to the relevant FSM.