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Intelligent Network (IN); Intelligent Network Application Protocol (INAP); Capability Set 2 (CS2); Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for Service Switching Function (SSF); Sub-part 3: Specialized Resource Functions (SRF)

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European Standard (Telecommunications series)

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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, sub-part 3 of a multi-part EN covering the Intelligent Network Application Protocol (INAP) capability set 2, as identified below:

Part 1: "Protocol specification";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for Service Switching Function (SSF)";

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Sub-part 1: "Basic capability set of CS-1 including CS-2 complements";

Sub-part 2: "Call Party Handling (CPH)";

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Sub-part 3: "Specialized Resource Functions (SRF)";

Part 4: "Abstract Test Suite (ATS) specification and Partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for Service Switching Function (SSF)";

Part 5: "Distributed Functional Plane (DFP) [ITU-T Recommendation Q.1224 (1997) modified]".

National transposition dates	
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Date of withdrawal of any conflicting National Standard (dow):	31 January 2001

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1 Scope

The present document contains the Test Purposes (TPs) for Specialized Resource Functions (SRF) testing, part of CoreINAP CS2. The present document complements the initial document EN 301 140-3-1 [1] and EN 301 140-3-2 [2].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] ETSI EN 301 140-3-1: "Intelligent Network (IN); Intelligent Network Application Protocol (INAP); Capability Set 2 (CS2); Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for Service Switching Function (SSF); Sub-part 1: Basic capability set of CS-1 including CS-2 complements".

[2] ETSI EN 301 140-3-2: "Intelligent Network (IN); Intelligent Network Application Protocol (INAP); Capability Set 2 (CS2); Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for Service Switching Function (SSF); Sub-part 2: Call Party Handling (CPH)".

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3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 301 140-3-1 [1] apply:

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CPH	Call Party Handling
CS	Call Segment
CS	Capability Set
INAP	Intelligent Network Application Protocol
IUT	Implementation Under Test
MSC	Message Sequence Chart
PIXIT	Protocol Implementation eXtra Information for Testing
SCF	Service Control Function
SRF	Specialized Resource Function
SSF	Service Switching Function
SSP	Service Switching Point
TP	Test Purpose
TSS	Test Suite Structure

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4 Void

See EN 301 140-3-1 [1].

5 Void

See EN 301 140-3-1 [1].

6 Void

See EN 301 140-3-1 [1].

7 Void

See EN 301 140-3-2 [2].

8 TP for SRF functions

8.1 Introduction

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Testing SRF requires several different configurations. These configurations are described in annex A of EN 301 140-3-1 [1].

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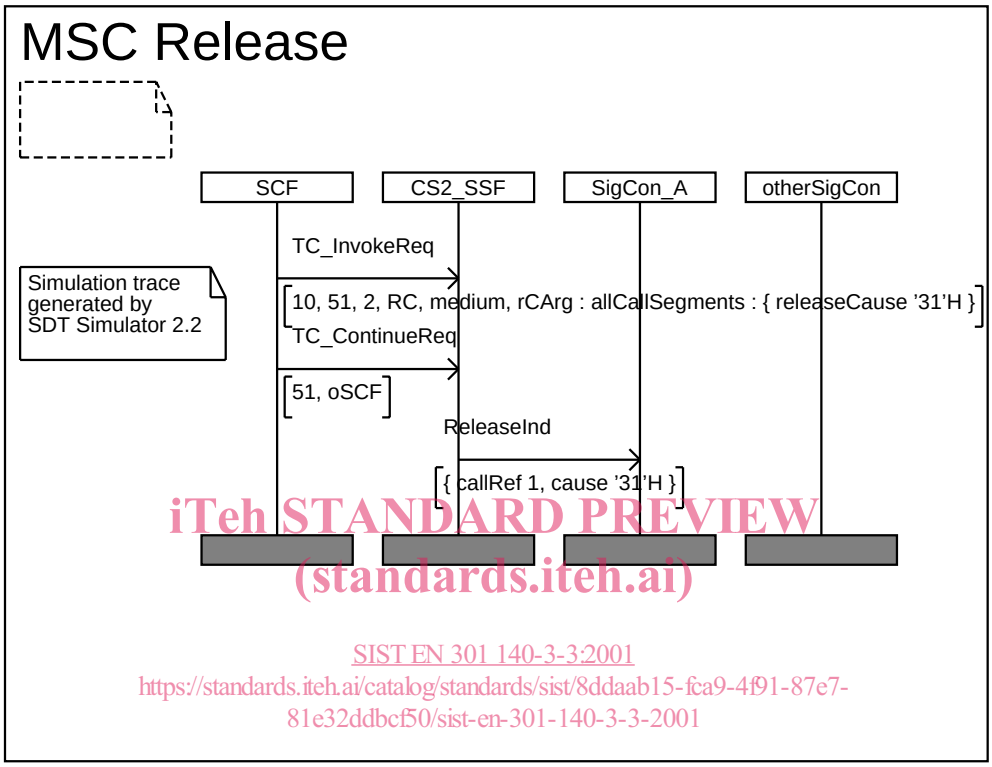
8.2 Preamble used for SRF testing

SRF testing uses the preamble named O_OS_null_null defined for CPH testing (see EN 301 140-3-2 [2]).

8.3 Postambles used for SRF testing

8.3.1 Release



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8.3.2 DisconnectAndRelease

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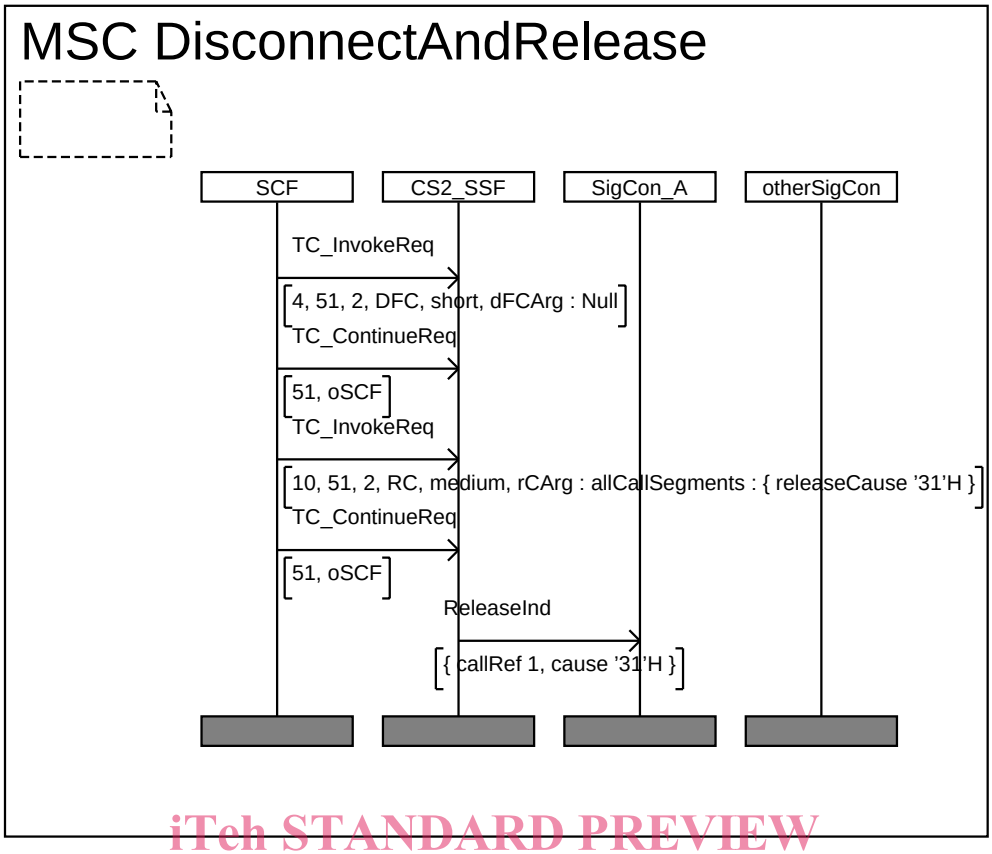

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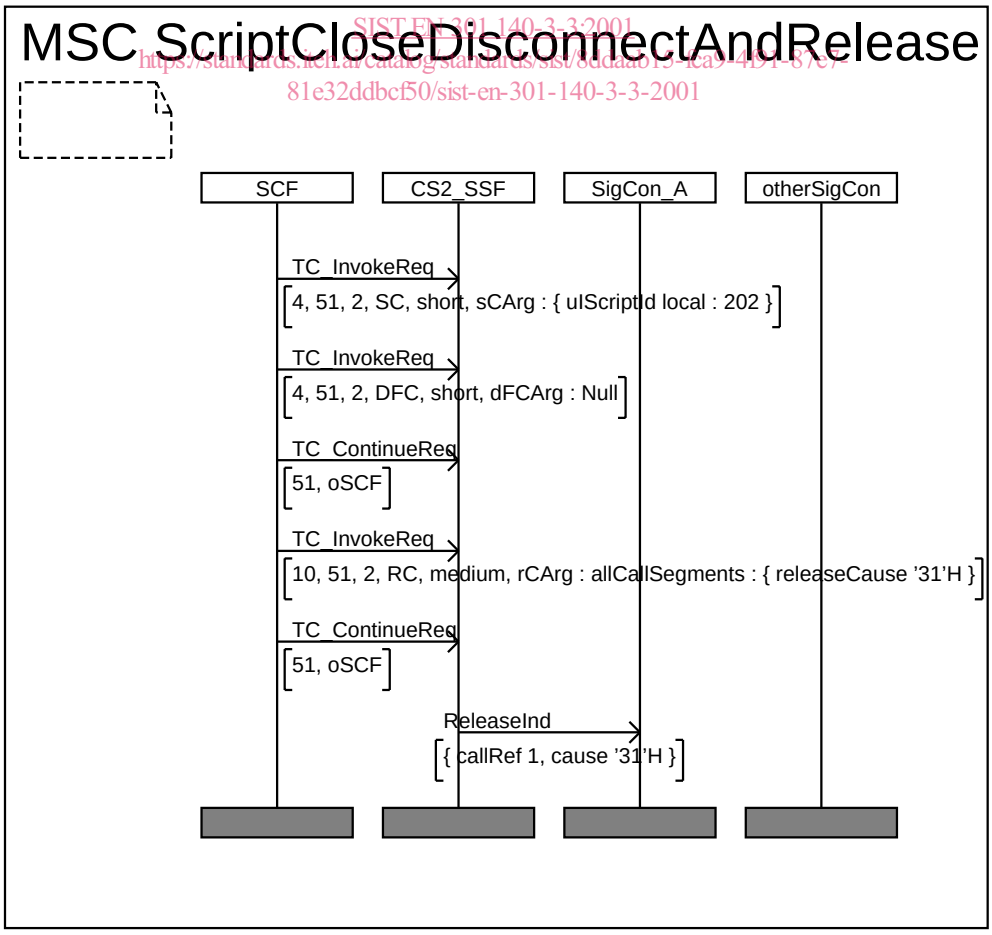
8.3.3 ScriptCloseDisconnectAndRelease



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8.4 Configuration where SSF is the IUT

For these TP, the implementation under test (IUT) is an SSF with an integrated SRF. The main tester is the SCF. SigconA and SigconB are parallel points of observation. Refer to functional configuration 1.4 defined in Annex A.

The MSCs have the usual representation of the following: SCF, SSF, SigconA and SigconB.

8.4.1 ConnectToResource (CR) procedure

IN2_A_BASIC_CR_CA_01	
Purpose:	Test of **ConnectToResource** procedure
Requirement ref	
Selection Cond.	
Preamble:	O_OS_null_null
Test description	SCF sends to IUT a **ConnectToResource** invoke containing mandatory parameters only with: - resourceAddress being none
Pass criteria	- Check that IUT establishes a connection between the calling party and SRF To check it, SCF sends to IUT a **PlayAnnouncement** invoke containing mandatory parameters only with: informationToSend - inbandInfo - messageID - elementaryMessageID being any valid value This invoke has to be accepted by the IUT
Postamble:	DisconnectAndRelease

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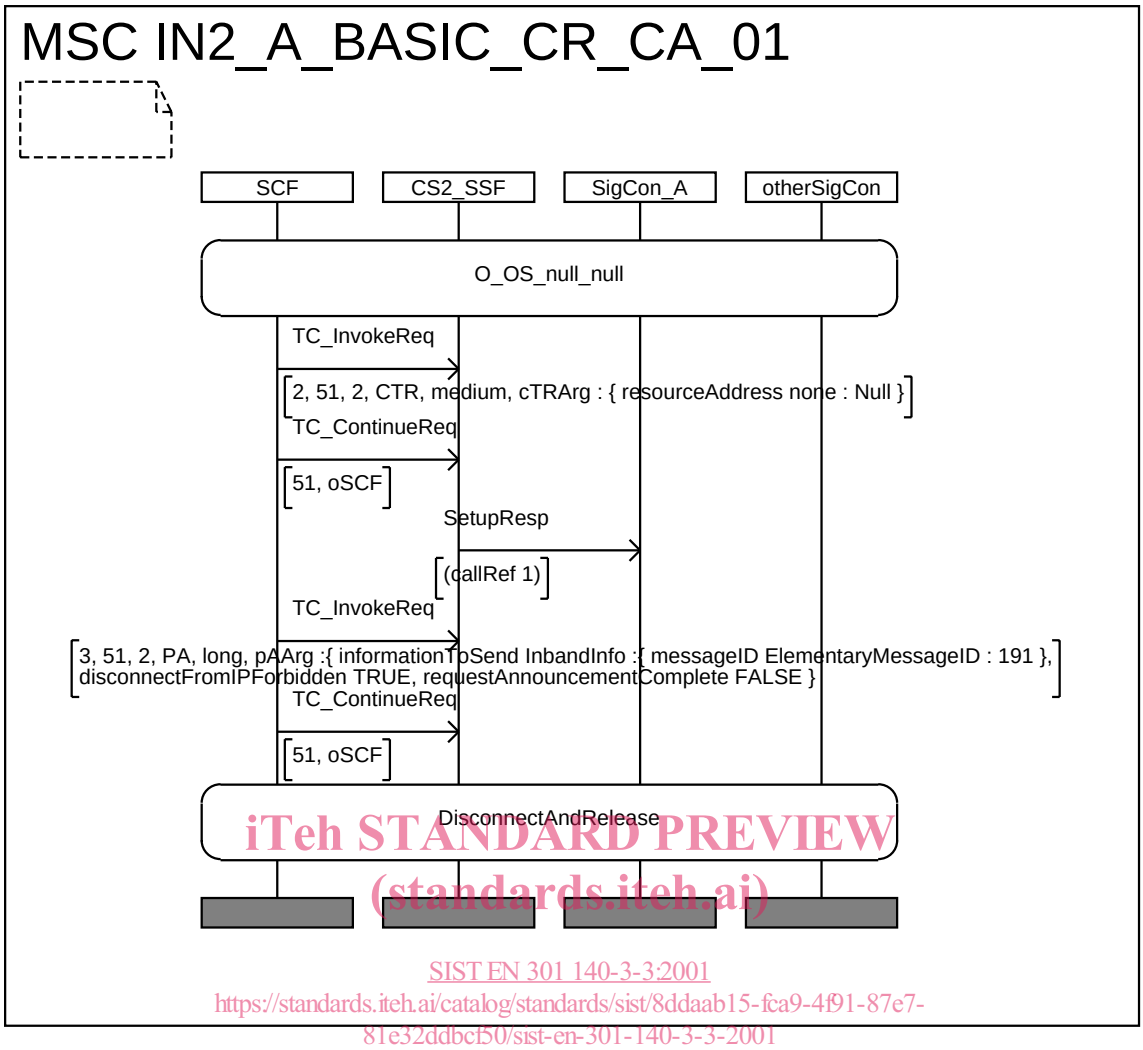

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IN2_A_BASIC_CR_CA_02	
Purpose:	Test of **ConnectToResource** procedure
Requirement ref	
Selection Cond.	
Preamble:	O_OS_null_null
Test description	SCF sends to IUT a **ConnectToResource** invoke containing mandatory parameters only with: - resourceAddress being iPRoutingAddress with any valid value
Pass criteria	- Check that IUT establishes a connection between the call and SRF To check it, SCF sends to IUT a **PlayAnnouncement** invoke containing mandatory parameters only with: - informationToSend - inbandInfo - messageID - elementaryMessageID being any valid value
Postamble:	DisconnectAndRelease

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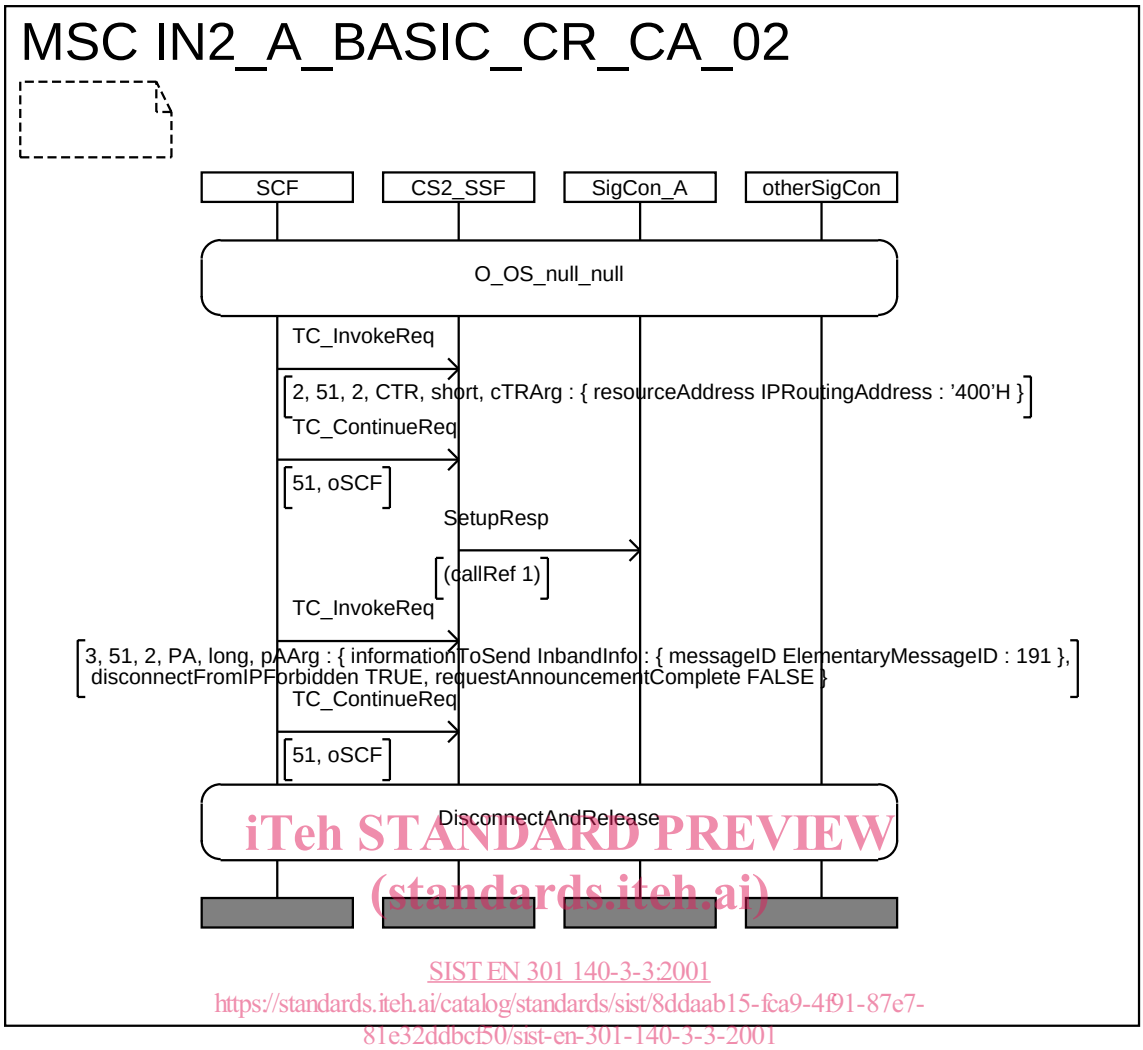

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IN2_A_BASIC_CR_BI_01	
Purpose:	Test of **ConnectToResource** procedure with missing parameter
Requirement ref	
Selection Cond.	
Preamble:	O_OS_null_null
Test description	SCF sends to IUT a **ConnectToResource** invoke NOT containing mandatory parameter
Pass criteria	- Check that IUT returns **ConnectToResource** error with missing parameter
Postamble:	DisconnectAndRelease

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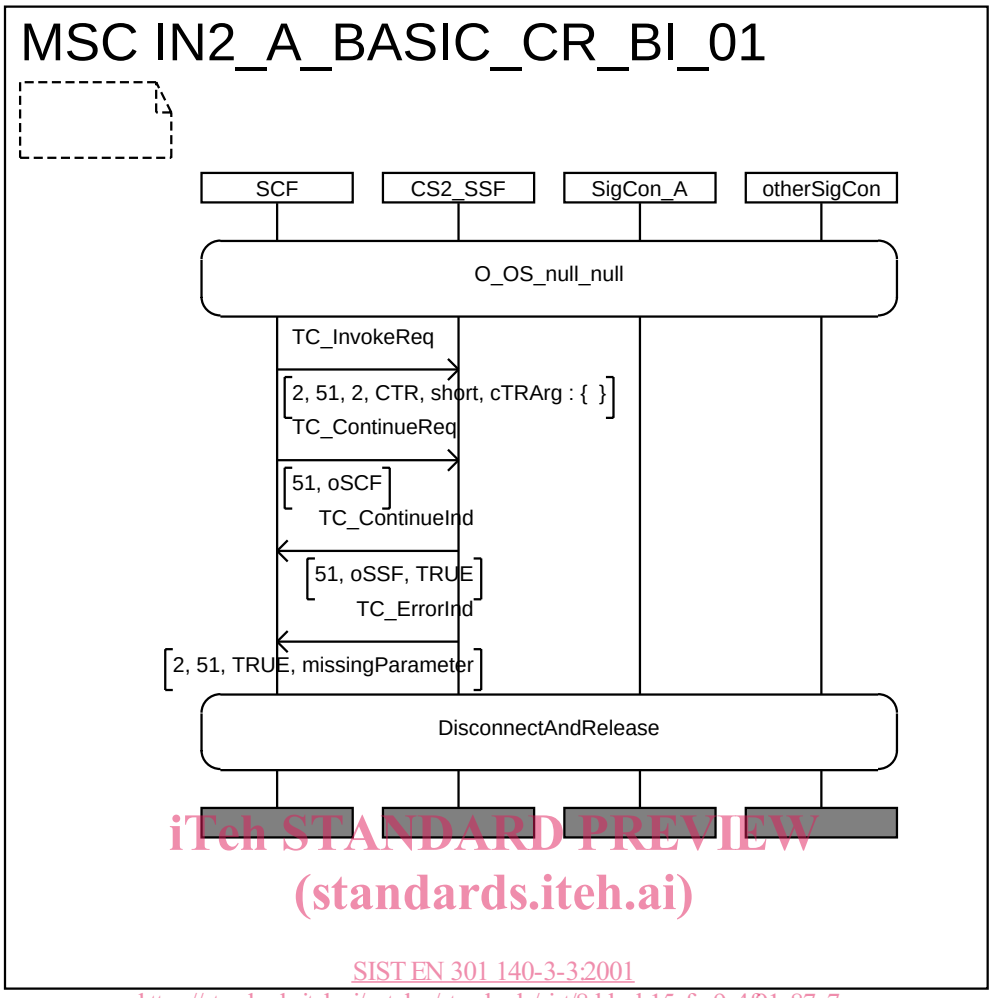

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8.4.2 DisconnectForwardConnection

8.4.2.1 DisconnectForwardConnection (DF) procedure

IN2_A_BASIC_DF_CA_01	
Purpose:	Test of **DisconnectForwardConnection** procedure
Requirement ref	
Selection Cond.	
Preamble:	O_OS_null_null
Test description	- SCF sends to IUT a **ConnectToResource** invoke containing mandatory parameters only with: - resourceAddress being none - SCF sends to IUT an **PlayAnnouncement** invoke containing parameter - informationToSend any valid value - disconnectFromIPForbidden set to TRUE - requestAnnouncementComplete set to TRUE SCF sends to IUT a **DisconnectForwardConnection** invoke
Pass criteria	- Check that IUT accepts the operation
Postamble:	Release

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