



**SLOVENSKI STANDARD**  
**SIST-TP ETSI/TR 101 779 V1.1.1:2005**  
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**Izboljšana faza 2 SFR – Izboljšanje modeliranja in zmožnosti faze 2 SRF**

Enhanced SRF phase 2; Enhancement to the modelling and capabilities of the SRF phase 2

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# ETSI TR 101 779 V1.1.1 (2000-03)

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*Technical Report*

## **Enhanced SRF phase 2; Enhancement to the modelling and capabilities of the SRF phase 2**

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**Postal address**

F-06921 Sophia Antipolis Cedex - FRANCE

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**Office address**650 Route des Lucioles - Sophia Antipolis  
Valbonne - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C

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**Internet**

secretariat@etsi.fr

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## Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Signalling and Protocols for Advanced Networks (SPAN).

The present document is based on ITU-T Q-series Intelligent Network Recommendations, ITU-T Recommendation Q.123X [1].

Intelligent Network (IN) Capabilities Set 4 (CS-4) is the fourth standardized stage of the IN as an architectural concept for the creation and provision of services, including telecommunications services, management services and service creation.

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## 1 Scope

The scope of the present document will be the definition of enhancement to the modelling and the capabilities of the Specialized Resource Function (SRF).

Reference services capabilities for the enhancement of the SRF are the targeted telecommunications services that should be supported by CS-3.

These services are for reference purpose only: other services could be considered in identifying the SRF enhancement as work on CS-3 progresses.

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## 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] ITU-T Recommendation Q.123X: "Intelligent Networks".

NOTE: Not yet published.

[2] ETSI TCRTR 027: "Intelligent Network (IN); Vocabulary of terms and abbreviations".

[3] ETSI ETR 199: "Network Aspects (NA); Enhancement to the modelling and capabilities of the Specialised Resource Function (SRF)".

[4] ITU-T Recommendation I.375: "Network Capabilities to support Multimedia Services".

[5] ITU-T Recommendation Q.1204: "Intelligent network distributed functional plane architecture".

[6] ITU-T Recommendation I.211: "B-ISDN service aspects".

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## 3 Abbreviations

For the purposes of the present document, the symbols and abbreviations given in TCRTR 027 [2] and the following apply:

B-ISDN	Broadband - Integrated Services Digital Network
BVC	Broadband Video Conference
GUI	Graphical User Interface
SCIE	Service Creation Environment
SCF	Service Control Function (IN term)
SRF	Specialized Resource Function
STB	Set Top Box
VCC	Voice Calling Card
VCR	Video Cassette Recorder
VOD	Video On Demand

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## 4 Introduction

The enhancement to the capabilities of the SRF will be driven by new services that need complex voice-processing. These services grew outside of the SSF in the form of interactive voice response systems, voice mail systems and automated operators. These systems embraced new technologies including facsimile, speaker-dependent and speaker-independent voice recognition, text-to-speech and voice identification. These processes do not involve any call routing, so it is logical to manage these parts of the application on the SRF.

These services need many complex resources, in some cases at the same time, or the same sequential actions to provide specific procedures. The SRF could provide a part of the service logic using Mini-Scripts [3]. These "dialogues" contain the sequential actions, already defined, necessary to execute a part of the procedures.

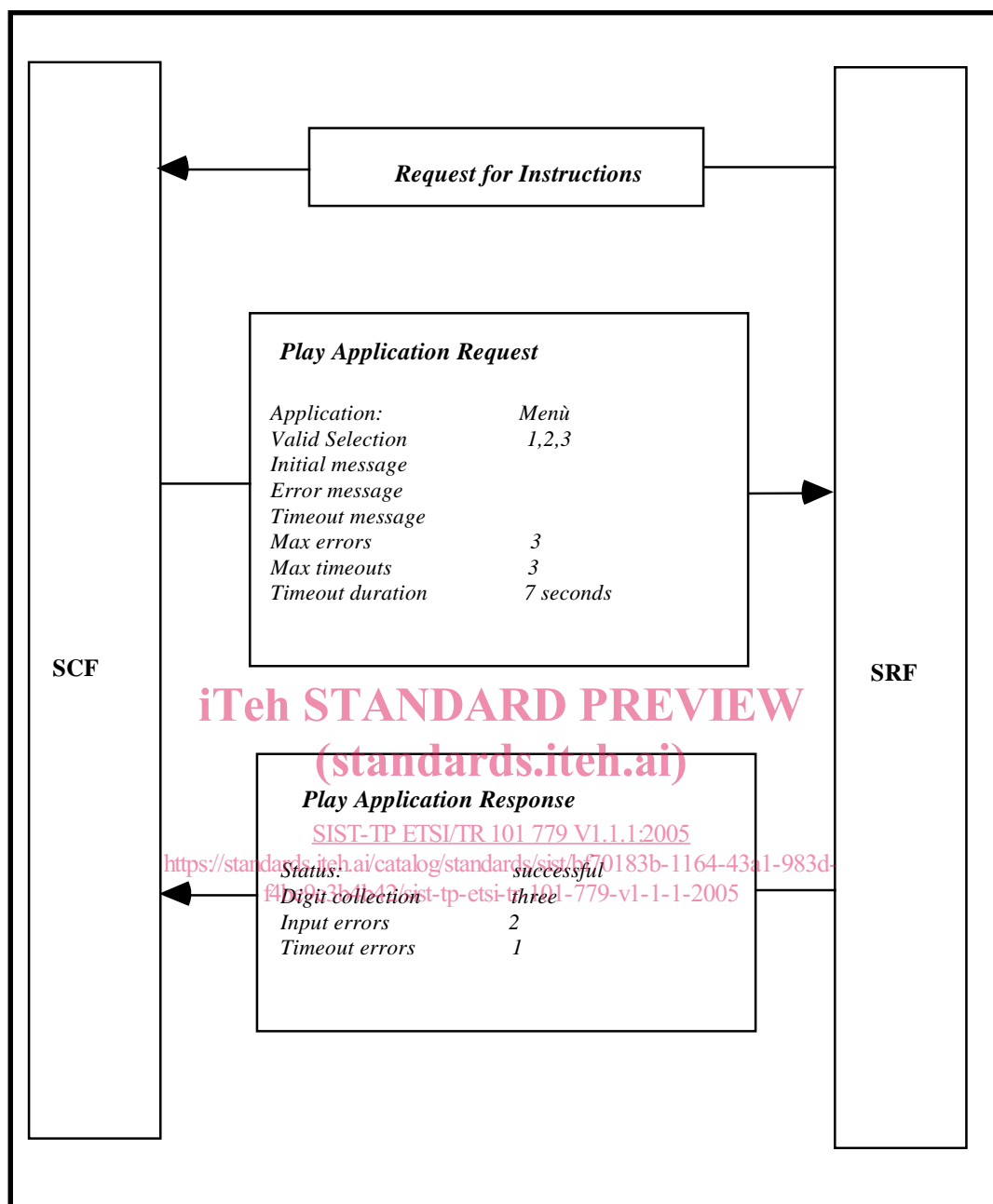
The SCF manages database functions and performs tasks such as call routing; the SRF performs intensive resource processing, providing local intelligence and processing power to interpret user requirements.

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**Figure 1: An example of transaction between SCF and SRF**

The use of Mini-Scripts defined in [3] can reduce the number of messages sent between the SCF and SRF, for example: complex error-processing logic and a variety of messages are set in place on the SCF to handle a simple menu; instead, a PlayApplicationRequest (a type of Mini-Scripts) could be used in conjunction with the menu-handling facilities on the SRF to reduce the complexity of the transaction.

## 5 Services

This section lists the proposed CS-4 targeted services/service features in broad outline. Note that the definitions for targeted telecommunications services are only preliminary descriptions in the initial phase of the study. They are a useful reference for the description of the general CS-4 services/service features capabilities, which, in turn, are fundamental to the scope of this draft, proposed CS-4 SRF enhancement. As such, the services/service features definitions are for this purpose only and should not be considered as standardized definitions.