



**SLOVENSKI STANDARD**  
**SIST-TS ETSI/TS 102 253 V1.1.1:2005**  
**01-marec-2005**

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NUgYVbc`ca fYy^Yn`]bhY[ f]fUb]a ]g]cf]hj Ua ]fD-GBL!`I dcfUVUE G- `nUXcghcd`Xc  
gdcfc ]bY[ UWbhfUfA 7 5 L!`DfcZ`ghUbXUfXU

Private Integrated Services Network (PISN); Use of QSIG for Message Centre Access (MCA) Profile Standard

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Ta slovenski standard je istoveten z: **TS 102 253 Version 1.1.1**  
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**ICS:**

33.040.35      Telefonska omrežja      Telephone networks

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# ETSI TS 102 253 V1.1.1 (2003-08)

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*Technical Specification*

## **Private Integrated Services Network (PISN); Use of QSIG for Message Centre Access (MCA) Profile Standard**

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## Reference

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DTS/ECMA-00223

## Keywords

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PISN, profile

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## Foreword

This Technical Specification (TS) has been produced by ECMA on behalf of its members and those of the European Telecommunications Standards Institute (ETSI).

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## Brief History

The present document is one of a series of ECMA Standards defining services and signalling protocols applicable to Private Integrated Services Networks (PISNs). The series uses ISDN concepts as developed by ITU-T and conforms to the framework of International Standards for Open Systems Interconnection as defined by ISO/IEC. It has been produced under ETSI work item DTS/ECMA-00223.

The present documents based upon the practical experience of ECMA member companies and the results of their active and continuous participation in the work of ISO/IEC JTC1, ITU-T, ETSI and other international and regional standardization bodies. It represents a pragmatic and widely based consensus.

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## 1 Scope

The present document specifies the combination of base standards, together with the selection of appropriate options and parameter values, necessary to specify how QSIG / PSS1 can be used for Message Centre Access (MCA) procedures.

The present document identifies the necessary or optional employment of particular functions, procedures and services for:

- a Calling User to deposit messages for a Served User at a Message Centre;
- a Served User to monitor the Served User's Mailbox for new messages;
- a Served User to browse through the messages saved in the Served User's Mailbox;
- a Served User to retrieve the messages saved in the Served User's Mailbox; and
- a Served User to get connected to the Originator of a message or any other destination.

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## 2 Conformance

A system conforms to the present document if it correctly performs all the mandatory capabilities defined in one or more of the requirement list (RL) (annex A) and one or more of the profile specific ICS (annex B).

NOTE: For the purpose of the present document capabilities marked as optional in the base standards may be mandatory or excluded.

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## 3 References (normative)

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The following standards contain provisions which, through reference in this text, constitute provisions of the present document. All standards are subject to revision, and parties to agreements based on the present document are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

In the case of references to ECMA Standards that are aligned with ISO/IEC International Standards, the number of the appropriate ISO/IEC International Standard is given in brackets after the ECMA reference.

- [1] ECMA -133: "Private Integrated Services Network (PISN) - Reference Configuration for PISN Exchanges (PINX) (International Standard ISO/IEC 11579-1)".
- [2] ECMA-142: "Private Integrated Services Network (PISN) - Circuit Mode 64kbit/s Bearer Services - Service Description, Functional Capabilities and Information Flows (International Standard ISO/IEC 11574)".
- [3] ECMA-143: "Private Integrated Services Network (PISN) - Circuit Mode Bearer Services - Inter-Exchange Signalling Procedures and Protocol (QSIG-BC) (International Standard ISO/IEC 11572)".
- [4] ECMA-155: "Private Integrated Services Network - Addressing (International Standard ISO/IEC 11571)".
- [5] ECMA-165: "Private Integrated Services Network (PISN) - Generic Functional Protocol for the Support of Supplementary Services - Inter-Exchange Signalling Procedures and Protocol (QSIG-GF) (International Standard ISO/IEC 11582)".
- [6] ECMA-173: "Private Integrated Services Network (PISN) - Specification, Functional Model and Information Flows - Call Diversion Supplementary Services (CFSD) (International Standard ISO/IEC 13872)".

- [7] ECMA-174: "Private Integrated Services Network (PISN) - Inter-Exchange Signalling Protocol - Call Diversion Supplementary Services (QSIG-CF) (International Standard ISO/IEC 13873)".
- [8] ECMA-177: "Private Integrated Services Network (PISN) - Specification, Functional Model and Information Flows - Call Transfer Supplementary Service (CTSD) (International Standard ISO/IEC 13865)".
- [9] ECMA-178: "Private Integrated Services Network (PISN) - Inter-Exchange Signalling Protocol - Call Transfer Supplementary Service (QSIG-CT) (International Standard ISO/IEC 13869)".
- [10] ECMA-241: "Private Integrated Services Network (PISN) - Specification, Functional Model and Information Flows - Message Waiting Indication Supplementary Service (MWISD) (International Standard ISO/IEC 15505)".
- [11] ECMA-242: "Private Integrated Services Network (PISN) - Inter-Exchange Signalling Protocol - Message Waiting Indication Supplementary Service (QSIG-MWI) (International Standard ISO/IEC 15506)".
- [12] ECMA-299: "Private Integrated Services Network (PISN) - Specification, Functional Model and Information Flows - Single Step Call Transfer Supplementary Service (SSCT-SD) (International Standard ISO/IEC 19459)".
- [13] ECMA-300: "Private Integrated Services Network (PISN) - Inter-Exchange Signalling Protocol - Single Step Call Transfer Supplementary Service (QSIG-SSCT) (International Standard ISO/IEC 19460)".
- [14] ECMA-310: "Private Integrated Services Network (PISN) - Specification, Functional Model and Information Flows - Simple Dialog Supplementary Service (SDSD) (International Standard ISO/IEC 21407)".
- [15] ECMA-311: "Private Integrated Services Network (PISN) - Inter-Exchange Signalling Protocol - Simple Dialog Supplementary Service (QSIG-SD) (International Standard ISO/IEC 21408)".
- [16] ECMA-343: "Private Integrated Services Network (PISN) - Specification, Functional Model and Information Flows - Make Call Request Supplementary Service (MCRSD)".
- [17] ECMA-344: "Private Integrated Services Network (PISN) - Inter-Exchange Signalling Protocol - Make Call Request Supplementary Service (QSIG-MCR)".
- [18] ECMA-346: "Private Integrated Services Network (PISN) - Specification, Functional Model and Information Flows - Message Centre Monitoring and Mailbox Identification Supplementary Services (MCM-SD/MID-SD)".
- [19] ECMA-347: "Private Integrated Services Network (PISN) - Inter-Exchange Signalling Protocol - Message Centre Monitoring and Mailbox Identification Supplementary Services (QSIG-MCM/QSIG-MID)".
- [20] ECMA TR/76: "Private Integrated Services Network (PISN) - Architecture and Scenarios for Private Integrated Services Networking (ISO/IEC TR 14475)".
- [21] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance statements".
- [22] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".

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## 4 Definitions

### 4.1 External definitions

For the purposes of the present document, the following terms and definitions given other documents apply:

**Basic Call (BC):** See ECMA-165 [5].

**call:** See ECMA-165 [5].

**Call Independent Signalling Connection (CISC):** See ECMA-165 [5].

**call related:** See ECMA-165 [5].

**complete number:** See ECMA-155 [4].

**compressed information:** See ECMA-346 [18].

**display information:** See ECMA-310 [14].

**diverted-to PINX:** See ECMA-174 [7].

**keypad information:** See ECMA-310 [14].

**mailbox:** See ECMA-346 [18].

**Mailbox IDentification (MID):** See ECMA-346 [18].

**Make Call Request (MCR):** See ECMA-343 [16].

**Message Centre (MC):** See ECMA-346 [18].

**Message Centre (MC) PINX:** See ECMA-347 [19].

**message type:** See ECMA-346 [18].

**message status:** See ECMA-346 [18].

**MCR co-operating PINX:** See ECMA-344 [17].

**MCR co-operating user:** See ECMA-343 [16].

**MCR destination PINX:** See ECMA-344 [17].

**MCR destination user:** See ECMA-343 [16].

**MCR requesting PINX:** See ECMA-344 [17].

**MCR requesting user:** See ECMA-343 [16].

**new message:** See ECMA-346 [18].

**original call:** See ECMA-343 [16].

**originator:** See ECMA-346 [18].

**Private Integrated Services Network (PISN):** See ECMA-133.

**Private Integrated services Network eXchange (PINX):** See ECMA-133.

**requested call:** See ECMA-343 [16].

**rerouting PINX:** See ECMA-174 [7].

**retrieved message:** See ECMA-346 [18].

**secondary call:** See ECMA-178 [9].

**served user:** See ECMA-173 [6], ECMA-346 [18]

**server user:** See ECMA-310 [14].

**served user PINX:** See ECMA-174 [7], ECMA-347 [19].

**server user PINX:** See ECMA-311 [15].

**transferred user:** See ECMA-299 [12].

**transferring user:** See ECMA-178 [9].

**telecommunication service:** See ECMA-142 [2].

**user:** See ECMA-142 [2].

**user b:** See ECMA-177 [8].

**Q reference point:** See ECMA-133 [1].

## 4.2 Served user

The Served User as defined in Message Centre Monitoring (ECMA-346 [18]). For MCA, the Served User may also act as Served User in Call Diversion (as defined in ECMA-173 [6]), as a User B in Call Transfer (as defined in ECMA-177 [8]), as a Client User in Simple Dialog (as defined in ECMA-310 [14]), as a Transferred User in Single Step Call Transfer (as defined in ECMA-299 [12]) and as a Co-operating User in Make Call Request (as defined in ECMA-343 [16]).

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## 4.3 Served user PINX

The Served User PINX as defined in ECMA-347 [19]. For MCA, the Served User PINX may also act as Served User PINX or Rerouting PINX for Call Diversion (as defined in ECMA-173 [6]), as a Primary PINX for Call Transfer (as defined in ECMA-177 [8]), as a Client User PINX for Simple Dialog (as defined in ECMA-311 [15]), as a Transferred PINX for Single Step Call Transfer (as defined in ECMA-300 [13]) and as a Co-operating PINX for Make Call Request (as defined in ECMA-344 [17]).

## 4.4 Message Centre (MC)

Depending on the MCA-Profile, either the MCM or the MWI Message Centre.

### 4.4.1 MCM Message Centre (MC)

The Message Centre as defined in ECMA-346 [18]. This definition is used in MCA-Profile-3 and MCA-Profile-4. For MCA, the MCM Message Centre may also act as Diverted-to PINX for Call Diversion (as defined in ECMA-174 [7]), as a Server User PINX for Simple Dialog (as defined in ECMA-311 [15]), a Transferring PINX for Call Transfer (as defined in ECMA-178 [9]), a Transferring PINX for Single Step Call Transfer (as defined in ECMA-300 [13]), and a Requesting PINX for Make Call Request (as defined in ECMA-344 [17]).

### 4.4.2 MWI Message Centre (MC)

The Message Centre as defined in ECMA-241 [10]. This definition is used in MCA-Profile-1 and MCA-Profile-2. For MCA, the MWI Message Centre may also act as Diverted-to PINX for Call Diversion (as defined in ECMA-174 [7]), as a Server User PINX for Simple Dialog (as defined in ECMA-311 [15]), as a Transferring PINX for Call Transfer (as defined in ECMA-178 [9]) and as a Transferring PINX for Single Step Call Transfer (as defined in ECMA-300 [13]).

## 4.5 MCA-Profile-1

MCA-Profile-1 is a profile, which describes the interoperation of supplementary services for Message Centre Access purposes. Supplementary services involved in MCA-Profile-1 are Call Diversion, Message Waiting Indication and Call Transfer.

## 4.6 MCA-Profile-2

MCA-Profile-2 is a profile, which describes the interoperation of supplementary services for Message Centre Access purposes. Supplementary services involved in MCA-Profile-2 are Call Diversion, Message Waiting Indication, Call Transfer, Single Step Call Transfer and Simple Dialog.

## 4.7 MCA-Profile-3

MCA-Profile-3 is a profile, which describes the interoperation of supplementary services for Message Centre Access purposes. Supplementary services involved in MCA-Profile-3 are Call Diversion, Call Transfer, Single Step Call Transfer, Simple Dialog, Message Centre Monitoring and Mailbox Identification.

## 4.8 MCA-Profile-4

MCA-Profile-4 is a profile, which describes the interoperation of supplementary services for Message Centre Access purposes. Supplementary services involved in MCA-Profile-4 are Call Diversion, Call Transfer, Single Step Call Transfer, Simple Dialog, Message Centre Monitoring, Mailbox Identification and Make Call Request.

iTeh STANDARD PREVIEW

## 4.9 Message Deposit (standards.iteh.ai)

The part of MCA describing how an Originator can deposit a Message in a Served User's Mailbox at a Message Centre.

[SIST-TS ETSI/TS 102 253 V1.1.1:2005](https://standards.iteh.ai/catalog/standards/sist/7b78deea-7850-48e7-aa8f-102-253-v1-1-1-2005)

### 4.9.1 Direct Message Deposit

<https://standards.iteh.ai/catalog/standards/sist/7b78deea-7850-48e7-aa8f-102-253-v1-1-1-2005>

The part of MCA describing how an Originator can deposit a Message in a Served User's Mailbox by directly calling the Message Centre, i.e. without a prior call to the Served User.

### 4.9.2 Message Deposit after Diversion

The part of MCA describing how an Originator can deposit a Message in a Served User's Mailbox if the Originator gets diverted to the Served User's Mailbox.

### 4.9.3 Message Deposit after Transfer

The part of MCA describing how an Originator can deposit a Message in a Served User's Mailbox if the Originator gets transferred to the Served User's Mailbox.

## 4.10 Message Centre Monitoring (MCM)

The part of MCA describing how a Message Centre informs a Served User about the status and status changes of Messages in the Served User's Mailbox.

## 4.11 Message Browsing

The part of MCA describing how a Served User can contact a Message Centre to get access to the Served User's Mailbox, for example, configuration update, message browsing or message deletion purposes.

## 4.12 Message Retrieval

The part of MCA describing how a Served User can retrieve Messages from the Served User's Mailbox.

## 4.13 Message Centre (MC) Transfer

The part of MCA describing how a Served User can request the Message Centre to get connected (e.g. transferred) to the Originator of a specific Message or any other destination.

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# 5 Acronyms

For the purposes of the present document the following acronyms apply:

APDU	Application Protocol Data Unit
ASN.1	Abstract Syntax Notation One
BC	Basic Call
CF	Supplementary Service Call Diversion
CISC	Call Independent Signalling Connection
CN	Corporate telecommunication Network
CT	Supplementary Service Call Transfer
DTMF	Dual Tone Multiple Frequency
GF	Generic Functional protocol (for the support of supplementary services)
MC	Message Centre
MCA	Message Centre Access
MCM	Supplementary Service Message Centre Monitoring
MCR	Supplementary Service Make Call Request
MID	Supplementary Service Mailbox IDentification
MWI	Supplementary Service Message Waiting Indication
NFE	Network Facility Extension
PINX	Private Integrated Services Network eXchange
PISN	Private Integrated Services Network
PNP	Private Numbering Plan
QSIG	Q reference point SIGNalling system
RL	Requirements List
SD	Supplementary Service Simple Dialog
SS	Supplementary Service
SSCT	Supplementary Service Single Step Call Transfer

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# 6 Specification framework

## 6.1 General description

The present document describes the usage and interoperability of basic and supplementary services within a PISN for the purpose of Message Centre Access (MCA).

MCA incorporates functionality for the use of accessing a Message Centre due to the following reasons:

- an Originator deposits a Message in the Mailbox of a Served User (Message Deposit);
- a Message Centre informs a Served User about Messages in the Served User's Mailbox (Message Centre Monitoring);
- a Served User contacts the Message Centre to, for example, update configuration and browse or delete messages (Message Browsing);
- a Served User contacts the Message Centre in order to retrieve messages stored in the Served User's Mailbox (Message Retrieval);