
**Information technology —
Telecommunications and information
exchange between systems —
Private Integrated Services Network —
Inter-exchange signalling protocol —
Wireless Terminal Location Registration
supplementary service and Wireless
Terminal Information exchange additional
network feature**

[ISO/IEC 15429:1999](https://standards.iso.org/iso/iec/15429/1999)

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*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Réseau privé à intégration de services —
Protocole de signalement d'interéchange — Service supplémentaire
d'enregistrement de localisation de terminal sans fil et caractéristiques de
réseau additionnelles pour l'échange d'information de terminal sans fil*

Contents

1 Scope 1

2 Conformance..... 1

3 Normative references 2

4 Terms and definitions 2

4.1 External definitions..... 2

4.2 Other definitions 3

5 Symbols and abbreviated terms 4

6 Signalling protocol for the support of SS-WTLR..... 4

6.1 SS-WTLR description 4

6.2 SS-WTLR operational requirements 4

6.2.1 Requirements on the Visitor PINX 4

6.2.2 Requirements on the Home PINX..... 4

6.2.3 Requirements on a Transit PINX..... 4

6.2.4 Requirements on the Directory PINX..... 5

6.3 SS-WTLR coding requirements..... 5

6.3.1 Operations 5

6.3.2 Information elements 7

6.3.3 Messages..... 7

6.4 SS-WTLR state definitions..... 7

6.4.1 States at the Visitor PINX 7

6.4.2 States at the Home PINX 8

6.4.3 States at the Directory PINX 8

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ISO/IEC 15429:1999
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6.5 SS-WTLR Signalling procedures for location registration	8
6.5.1 Actions at the Visitor PINX for location registration.....	8
6.5.2 Additional actions at the Visitor PINX for enquiry to the previous Visitor PINX.....	9
6.5.3 Additional actions at the Visitor PINX for enquiry to a Directory PINX.....	10
6.5.4 Actions at the Home PINX for location registration	10
6.5.5 Actions at a Transit PINX for location registration	11
6.5.6 Actions at the previous Visitor PINX for location registration.....	11
6.5.7 Additional actions at the previous Visitor PINX for enquiry from the Visitor PINX	11
6.5.8 Actions at the Directory PINX for enquiry from the Visitor PINX.....	12
6.6 SS-WTLR signalling procedures for location deregistration	12
6.6.1 Actions at the Visitor PINX for location deregistration.....	12
6.6.2 Actions at the Home PINX for location deregistration.....	13
6.6.3 Actions at a Transit PINX for location deregistration	13
6.7 SS-WTLR Impact of interworking with public ISDNs	13
6.8 SS-WTLR Impact of interworking with non-ISDNs	13
6.9 Protocol interactions between SS-WTLR and other supplementary services and ANFs	13
6.9.1 Interaction with Calling Name Identification Presentation (SS-CNIP).....	13
6.9.2 Interaction with Connected Name Identification Presentation (SS-CONP)	13
6.9.3 Interaction with Completion of Calls to Busy Subscriber (SS-CCBS)	13
6.9.4 Interaction with Completion of Calls on No Reply (SS-CCNR)	14
6.9.5 Interaction with Call Transfer (SS-CT).....	14
6.9.6 Interaction with Call Forwarding Unconditional (SS-CFU).....	14
6.9.7 Interaction with Call Forwarding Busy (SS-CFB)	14
6.9.8 Interaction with Call Forwarding No Reply (SS-CFNR).....	14
6.9.9 Interaction with Call Deflection (SS-CD)	14
6.9.10 Interaction with Path Replacement (ANF-PR).....	14
6.9.11 Interaction with Call Offer (SS-CO)	14
6.9.12 Interaction with Call Intrusion (SS-CI)	14
6.9.13 Interaction with Do Not Disturb (SS-DND)	14
6.9.14 Interaction with Do Not Disturb Override (SS-DNDO).....	14
6.9.15 Interaction with Advice Of Charge (SS-AOC)	14

6.9.16 Interaction with Recall (SS-RE) 14

6.9.17 Interaction with Call Interception (ANF-CINT) 14

6.9.18 Interaction with Transit Counter (ANF-TC) 14

6.9.19 Interaction with Route Restriction Class (ANF-RRC)..... 15

6.9.20 Interaction with Message Waiting Indication (SS-MWI) 15

6.9.21 Interaction with Wireless Terminal information exchange (ANF-WTINFO)..... 15

6.9.22 Interaction with Wireless Terminal Incoming Call (SS-WTMI)..... 15

6.9.23 Interaction with Wireless Terminal Outgoing Call (SS-WTMO)..... 15

6.9.24 Interaction with Wireless Terminal Authentication of Terminal (SS-WTAT)..... 15

6.9.25 Interaction with Wireless Terminal Authentication of Network (SS-WTAN) 15

6.10 SS-WTLR parameter values (timers)..... 15

6.10.1 Timer T1 15

6.10.2 Timer T2 15

6.10.3 Timer T3 15

6.10.4 Timer T4 16

7 Signalling protocol for the support of ANF-WTINFO 16

7.1 ANF-WTINFO description 16

7.2 ANF-WTINFO operational requirements 16

7.2.1 Requirements on the Visitor PINX 16

7.2.2 Requirements on the Home PINX..... 16

7.2.3 Requirements on a Transit PINX 16

7.3 ANF-WTINFO coding requirements 16

7.3.1 Operations 16

7.3.2 Information elements 16

7.3.3 Messages 17

7.4 ANF-WTINFO state definitions 17

7.4.1 States at the Visitor PINX 17

7.4.2 States at the Home PINX 17

7.5 ANF-WTINFO signalling procedures for transfer of restriction information 17

7.5.1 Actions at the Visitor PINX for transfer of restriction information 17

7.5.2 Actions at the Home PINX for transfer of restriction information 18

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO/IEC 15429:1999
<https://standards.iteh.ai/catalog/standards/sist/16a564e2-58bb-4b11-a089-bc76228900ef/iso-iec-15429-1999>

7.6 ANF-WTINFO signalling procedures for check of location data.....	18
7.6.1 Actions at the Visitor PINX for check of location data.....	18
7.6.2 Actions at the Home PINX for check of location data.....	19
7.6.3 Actions at a Transit PINX for support of ANF-WTINFO	19
7.7 ANF-WTINFO Impact of interworking with public ISDNs.....	20
7.8 ANF-WTINFO Impact of interworking with non-ISDNs	20
7.9 Protocol interactions between ANF-WTINFO and other supplementary services and ANFs.....	20
7.9.1 Interaction with Calling Name Identification Presentation (SS-CNIP).....	20
7.9.2 Interaction with Connected Name Identification Presentation (SS-CONP)	20
7.9.3 Interaction with Completion of Calls to Busy Subscriber (SS-CCBS)	20
7.9.4 Interaction with Completion of Calls on No Reply (SS-CCNR)	20
7.9.5 Interaction with Call Transfer (SS-CT).....	20
7.9.6 Interaction with Call Forwarding Unconditional (SS-CFU).....	20
7.9.7 Interaction with Call Forwarding Busy (SS-CFB)	20
7.9.8 Interaction with Call Forwarding No Reply (SS-CFNR).....	20
7.9.9 Interaction with Call Deflection (SS-CD).....	20
7.9.10 Interaction with Path Replacement (ANF-PR).....	20
7.9.11 Interaction with Call Offer (SS-CO).....	21
7.9.12 Interaction with Call Intrusion (SS-CI).....	21
7.9.13 Interaction with Do Not Disturb (SS-DND)	21
7.9.14 Interaction with Do Not Disturb Override (SS-DNDO).....	21
7.9.15 Interaction with Advice Of Charge (SS-AOC)	21
7.9.16 Interaction with Recall (SS-RE).....	21
7.9.17 Interaction with Call Interception (ANF-CINT)	21
7.9.18 Interaction with Transit Counter (ANF-TC)	21
7.9.19 Interaction with Route Restriction Class (ANF-RRC).....	21
7.9.20 Interaction with Message Waiting Indication (SS-MWI).....	21
7.9.21 Interaction with Wireless Terminal Location Registration (SS-WTLR)	21
7.9.22 Interaction with Wireless Terminal Incoming Call (SS-WTMI).....	21
7.9.23 Interaction with Wireless Terminal Outgoing Call (SS-WTMO).....	21
7.9.24 Interaction with Wireless Terminal Authentication of Terminal (SS-WTAT).....	21

iTeh STANDARD PREVIEW
(standards.iteh.ai)
ISO/IEC 15429:1999
<https://standards.iteh.ai/catalog/standards/sist/16a564e2-58bb-4b11-a089-16a564e2-58bb>
by 7(ANF-PR) iso-iec-15429-1999

7.9.25 Interaction with Wireless Terminal Authentication of Network (SS-WTAN)	22
7.10 ANF-WTINFO parameter values (timers)	22
7.10.1 Timer T5	22
7.10.2 Timer T6	22
Annex A (normative) Protocol Implementation Conformance Statement (PICS) proforma	23
Annex B (informative) Imported ASN.1 definitions	32
Annex C (informative) Examples of message sequences	33
Annex D (informative) Specification and Description Language (SDL) representation of procedures	39

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[ISO/IEC 15429:1999](https://standards.iteh.ai/catalog/standards/sist/16a564e2-58bb-4b11-a089-bc76228900ef/iso-iec-15429-1999)

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 15429 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

Annex A forms a normative part of this International Standard. Annexes B to D are for information only.

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Introduction

This International Standard is one of a series of International 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.

This particular International Standard is one of a series of signalling protocol standards that together specify Private Signalling System Number 1 (PSS1) (informally known as QSIG) for use at the Q reference point between Private Integrated Services Network Exchanges (PINXs). This International Standard supports the Wireless Terminal Location Registration supplementary service and the Wireless Terminal Information exchange additional network feature.

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Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Inter-exchange signalling protocol — Wireless Terminal Location Registration supplementary service and Wireless Terminal Information exchange additional network feature

1 Scope

This International Standard specifies the signalling protocol for the support of the Wireless Terminal Location Registration supplementary service (SS-WTLR) and the Wireless Terminal Information exchange additional network feature (ANF-WTINFO) at the Q reference point between Private Integrated Services Network Exchanges (PINXs) connected together within a Private Integrated Services Network (PISN).

SS-WTLR is a supplementary service which enables a WTM user to register at, or deregister from, the current location within the PISN. The ability to register at different locations in the PISN at different times enables the WTM user to maintain the provided services (including the ability to make and receive calls) at different access points. Deregistration is used to inform the PISN that the WTM user is temporarily unable to make use of the provided services (including the receipt of calls).

ANF-WTINFO is an additional network feature which enables transfer of restriction information between Home PINX and Visitor PINX. ANF-WTINFO also enables the Visitor PINX or Home PINX to initiate a check of the current location information.

The Q reference point is defined in ISO/IEC 11579-1.

Supplementary Service specifications and Additional Network Feature specifications are produced in three stages and according to the method specified in CCITT Recommendation I.130. This International Standard contains the stage 3 specification for the Q reference point and satisfies the requirements identified by the stage 1 and stage 2 specifications in ISO/IEC 15428.

The signalling protocol for SS-WTLR and ANF-WTINFO uses certain aspects of the generic procedures for the control of supplementary services specified in ISO/IEC 11582.

This International Standard also specifies additional signalling protocol requirements for the support of interactions at the Q reference point between SS-WTLR and other supplementary services and ANFs.

This International Standard is applicable to PINXs which can interconnect to form a PISN.

2 Conformance

In order to conform to this International Standard, a PINX shall satisfy the requirements identified in the Protocol Implementation Conformance Statement (PICS) proforma in annex A.

3 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO/IEC 11571:1994, *Information technology - Telecommunications and information exchange between systems - Numbering and sub-addressing in private integrated services networks.*

ISO/IEC 11574:1994, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Circuit-mode 64 kbit/s bearer services - Service description, functional capabilities and information flows.*

ISO/IEC 11579-1:1994, *Information technology - Telecommunications and information exchange between systems - Private integrated services network - Part 1: Reference configuration for PISN Exchanges (PINX).*

ISO/IEC 11582:1995, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Generic functional protocol for the support of supplementary services - Inter-exchange signalling procedures and protocol.*

ISO/IEC 13873:1995, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Call diversion supplementary services.*

ISO/IEC 15428:1999, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Specification, functional model and information flows - Wireless Terminal Location Registration supplementary service and Wireless Terminal Information Exchange additional network feature.*

ISO/IEC 15433:1999, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Wireless Terminal Authentication supplementary services.*

ISO/IEC 15506:1997, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Message waiting indication supplementary service.*

ITU-T Rec. I.112:1993, *Vocabulary of terms for ISDNs.*

CCITT Rec. I.130:1988, *Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN (Blue Book).*

ITU-T Rec. I.210:1993, *Principles of telecommunication services supported by an ISDN and the means to describe them.*

ITU-T Rec. Z.100:1993, *Specification and Description Language.*

ITU-T Rec. Q.950:1993, *Digital Subscriber Signalling System No. 1 (DSS1) - Supplementary services protocols, structure and general principles.*

4 Terms and definitions

For the purposes of this International Standard, the following definitions apply.

4.1 External definitions

This International Standard uses the following terms defined in other documents:

– Application Protocol Data Unit (APDU)	(ISO/IEC 11582)
– Basic Service	(ITU-T Rec. I.210)
– Call, Basic Call	(ISO/IEC 11582)
– Complete Number	(ISO/IEC 11571)
– Co-ordination Function	(ISO/IEC 11582)
– Directory PINX	(ISO/IEC 15428)
– End PINX	(ISO/IEC 11582)
– Home PINX	(ISO/IEC 15428)
– Home data base (HDB)	(ISO/IEC 15428)
– Interpretation APDU	(ISO/IEC 11582)
– Location Area (LA)	(ISO/IEC 15428)
– Network Facility Extension (NFE)	(ISO/IEC 11582)
– Originating PINX	(ISO/IEC 11582)
– PISN Number	(ISO/IEC 11571)
– Private Integrated Services Network (PISN)	(ISO/IEC 11579-1)
– Private Integrated Services Network Exchange (PINX)	(ISO/IEC 11579-1)
– Signalling	(ITU-T Rec. I.112)
– Supplementary Service	(ITU-T Rec. I.210)
– Supplementary Services Control Entity	(ISO/IEC 11582)
– Terminating PINX	(ISO/IEC 11582)
– Transit PINX	(ISO/IEC 11582)
– User	(ISO/IEC 11574)
– Visitor area	(ISO/IEC 15428)
– Visitor data base (VDB)	(ISO/IEC 15428)
– Visitor PINX	(ISO/IEC 15428)
– Wireless Terminal Mobility (WTM)	(ISO/IEC 15428)
– WTM user's identity	(ISO/IEC 15428)

4.2 Other definitions

4.2.1

WTM user

The user of SS-WTLR or other WTM services.

5 Symbols and abbreviated terms

ANF	Additional Network Feature
ANF-WTINFO	Wireless Terminal Information exchange
APDU	Application Protocol Data Unit
ASN.1	Abstract Syntax Notation no. 1
HDB	Home Data Base
ISDN	Integrated Services Digital Network
NFE	Network Facility Extension
PICS	Protocol Implementation Conformance Statement
PINX	Private Integrated Services Network Exchange
PISN	Private Integrated Services Network
SDL	Specification and Description Language
SS-MWI	Message Waiting Indication supplementary service
SS-WTLR	Wireless Terminal Location Registration supplementary service
VDB	Visitor Data Base
WTM	Wireless Terminal Mobility

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6 Signalling protocol for the support of SS-WTLR

6.1 SS-WTLR description

SS-WTLR is a supplementary service which makes the location of a WTM user known to the PISN. By updating location information in the PISN, incoming calls can be routed to a WTM user, and the WTM user can access the PISN services from the current location area. SS-WTLR also enables a WTM user to inform the PISN that the current location area is no longer to be used to make and receive calls.

6.2 SS-WTLR operational requirements

6.2.1 Requirements on the Visitor PINX

Generic procedures for the call independent control (connection oriented) of supplementary services, as specified in ISO/IEC 11582 for an Originating and Terminating PINX, shall apply.

6.2.2 Requirements on the Home PINX

Generic procedures for the call independent control (connection oriented) of supplementary services, as specified in ISO/IEC 11582 for a Terminating and an Originating PINX, shall apply.

6.2.3 Requirements on a Transit PINX

Generic procedures for the call independent control (connection oriented) of supplementary services, as specified in ISO/IEC 11582 for a Transit PINX, shall apply.

6.2.4 Requirements on the Directory PINX

Generic procedures for the call independent control (connection oriented) of supplementary services, as specified in ISO/IEC 11582 for a Terminating PINX, shall apply.

6.3 SS-WTLR coding requirements

6.3.1 Operations

The operations LocUpdate, LocDelete, LocDeReg and PIsnEnquiry defined in Abstract Syntax Notation number 1 (ASN.1) in Table 1 shall apply.

Table 1 — Operations in support of SS-WTLR and ANF-WTINFO

WTM-Location-Registration-Operations	
	{iso standard pss1-location-registration (15429) wtlr-operations (0)}
DEFINITIONS EXPLICIT TAGS ::=	
BEGIN	
IMPORTS	OPERATION, ERROR FROM Remote-Operation-Notation {joint-iso-ccitt(2) remote-operations(4) notation (0)} Extension FROM Manufacturer-specific-service-extension-definition {iso standard pss1-generic-procedures (11582) msi-definition (0)} notAvailable, invalidServedUserNumber FROM General-Errors-List {ccitt recommendation r 950 general-error-list (1)} PartyNumber FROM Addressing-Data-Elements {iso(1) standard(0) pss1-generic-procedures(11582) addressing-data-elements(9)} BasicService FROM Call-Diversion-Operations { iso (1) standard (0) pss1-call-diversion (13873) call-diversion-operations (0) };
LocUpdate ::=	OPERATION -- Sent from the Visitor PINX to the Home PINX. ARGUMENT LocUpdArg RESULT DummyRes ERRORS { invalidServedUserNumber, notAuthorized, unspecified }
LocDelete ::=	OPERATION -- Sent from the Home PINX to the previous Visitor PINX. ARGUMENT LocDelArg RESULT DummyRes ERRORS { temporarilyUnavailable, unspecified }
LocDeReg ::=	OPERATION -- Sent from the Visitor PINX to the Home PINX. ARGUMENT LocDeRegArg RESULT DummyRes ERRORS { notAvailable, unspecified }
PIsnEnquiry ::=	OPERATION -- Sent from the Visitor PINX to the previous Visitor PINX or a Directory PINX. ARGUMENT PIsnEnqArg

	RESULT	PisnEnqRes
	ERRORS	{ invalidServedUserNumber, unspecified }
GetRRcInf ::=	OPERATION	
	-- Sent from the Visitor PINX to the Home PINX.	
	ARGUMENT	GetRRcInfArg
	RESULT	GetRRcInfRes
	ERRORS	{ notAvailable, unspecified }
LocInfoCheck ::=	OPERATION	
	-- Sent from the Visitor PINX to the Home PINX or vice versa.	
	ARGUMENT	LocInfoCheckArg
	RESULT	LocInfoCheckRes
	ERRORS	{ notAvailable, unspecified }
LocUpdArg ::=	SEQUENCE	{ wtmUserId WtmUserId, basicService BasicService DEFAULT allServices, visitPINX PartyNumber, -- The pIsnNumber of the Visitor PINX, -- always a Complete Number. argExtension LrExtension OPTIONAL }
DummyRes ::=	CHOICE	{ null NULL, extension [1] IMPLICIT Extension, sequOfExtn [2] IMPLICIT SEQUENCE OF Extension }
LocDelArg ::=	SEQUENCE	{ wtmUserId WtmUserId, basicService BasicService DEFAULT allServices, argExtension LrExtension OPTIONAL }
LocDeRegArg ::=	SEQUENCE	{ wtmUserId WtmUserId, basicService BasicService DEFAULT allServices, argExtension LrExtension OPTIONAL }
PisnEnqArg ::=	SEQUENCE	{ alternativeld Alternativeld, -- Can be a temporary identifier, e.g. Network Assigned -- Identity structure, or a fixed handset identifier. argExtension LrExtension OPTIONAL }
PisnEnqRes ::=	SEQUENCE	{ wtmUserId WtmUserId, resExtension LrExtension OPTIONAL }
GetRRcInfArg ::=	SEQUENCE	{ wtmUserId WtmUserId, basicService BasicService DEFAULT allServices, argExtension LrExtension OPTIONAL }
GetRRcInfRes ::=	SEQUENCE	{ alternativeld Alternativeld OPTIONAL, rrClass RRClass OPTIONAL, argExtension LrExtension OPTIONAL }
LocInfoCheckArg ::=	SEQUENCE	{ wtmUserId WtmUserId, basicService BasicService DEFAULT allServices, visitPINX PartyNumber, -- The PISN number of the Visitor PINX, -- always a Complete Number. argExtension LrExtension OPTIONAL }
LocInfoCheckRes ::=	SEQUENCE	{ checkResult CheckResult, argExtension LrExtension OPTIONAL }

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ISO/IEC 15429:1999

WtmUserId ::=	CHOICE	{ pismNumber PartyNumber, -- The PISN number of the WTM user, -- always a Complete Number. alternativeld Alternativeld }
Alternativeld ::=	OCTET STRING(SIZE(1..20))	
LrExtension ::=	CHOICE	{ extension [1] IMPLICIT Extension, sequOfExtn [2] IMPLICIT SEQUENCE OF Extension }
RRClass ::=	INTEGER (0..99)	
CheckResult ::=	ENUMERATED	{ locInfChk-correct (0), locInfChk-incorrect (1) }
locUpdate	LocUpdate ::=	localValue 50
locDelete	LocDelete ::=	localValue 51
locDeReg	LocDeReg ::=	localValue 52
pismEnquiry	PismEnquiry ::=	localValue 53
getRRClnf	GetRRClnf ::=	localValue 97
locInfoCheck	LocInfoCheck ::=	localValue 98
notAuthorized	ERROR ::=	localValue 1007
temporarilyUnavailable	ERROR ::=	localValue 1000
unspecified	Unspecified ::=	localValue 1008
Unspecified ::=	ERROR	PARAMETER Extension
END	-- of WTM-Location-Registration-Operations	

Editorial Note: Element visitPINX in LocUpdArg can either be a roaming number for the individual WTLR user or a single number for all WTLR users currently registered in this PINX. In the latter case the individual WTLR users are distinguished by their own WtmUserId.

6.3.2 Information elements

6.3.2.1 Facility information element

APDUs of the operations defined in 6.3.1 shall be coded in the Facility information element in accordance with ISO/IEC 11582.

When conveying the invoke APDU of operations defined in 6.3.1, the destinationEntity data element of the NFE shall contain value endPINX.

When conveying the invoke APDU of operations defined in 6.3.1, the Interpretation APDU shall either be omitted or be included with value rejectAnyUnrecognisedInvokePdu.

6.3.2.2 Other information elements

Any other information elements (e.g. Calling party number, Called party number) shall be coded in accordance with the rules of ISO/IEC 11582.

6.3.3 Messages

The Facility information element shall be conveyed in the messages as specified in clause 10 of ISO/IEC 11582.

6.4 SS-WTLR state definitions

6.4.1 States at the Visitor PINX

The procedures for the Visitor PINX are written in terms of the following conceptual states existing within the SS-WTLR Supplementary Service Control entity in that PINX in association with a particular location handling request.