INTERNATIONAL TELECOMMUNICATION UNION

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TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Infrastructure of audiovisual services – Communication procedures

Gateway control protocol: Coin-operated phone control package

ITU-T Recommendation H.248.35

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ITU-T Recommendation H.248.35

Gateway control protocol: Coin-operated phone control package

Summary

This Recommendation defines a package that controls coin-operated phones connected to a Media Gateway using ITU-T Rec. H.248. This package is intended to support only the coin functions of such payphones. Support for calling cards, credit cards and other forms of payment are not handled via this package.

Source

ITU-T Recommendation H.248.35 was approved on 8 January 2005 by ITU-T Study Group 16 (2005-2008) under the ITU-T Recommendation A.8 procedure.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

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As of the date of approval of this Recommendation, ITU had received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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ITU-T Recommendation H.248.35

Gateway control protocol: Coin-operated phone control package

1 Scope

This Recommendation defines a package that controls coin-operated phones connected to a Media Gateway using ITU-T Rec. H.248. This package is intended to support only the coin functions of such payphones. Support for calling cards, credit cards and other forms of payment are not handled via this package. The support of this package is optional.

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

2.1 Normative references

– ITU-T Recommendation H.248.1 (2002), *Gateway Control Protocol: Version 2*, plus Corrigendum 1 (2004).

2.2 Informative references

– Telcordia, GR-506-CORE, Issue 1, Revision 1 (11/1996), *LSSGR: Signalling for Analog Interfaces*.

– Telcordia, GR-528-CORE, Issue 1 (12/1994), *Public Telecommunications Service*.

3 Definitions

None.

4 Abbreviations

This Recommendation uses the following abbreviations.

CDF Coin Dialtone First

CSP Coin Semi-Postpay

MG Media Gateway

MGC Media Gateway Controller

5 Coin-operated Phone Control package

Package name: Coin-operated Phone Control package

PackageID: coin (0x0095)

Description: This package defines functionality to control coin-operated phones.

Version: 1

Extends: None

5.1 Properties

None.

5.2 Events

5.2.1 Coin Query Response

Event name: Coin Query Response

EventID: cqresp (0x0001)

Description:

Reports the presence or absence of a coin when queried through application of one of the primary coin signals: Coin Presence, Coin Partial Presence, Coin Return or Coin Collect.

5.2.1.1 EventsDescriptor parameters

None.

5.2.1.2 ObservedEventsDescriptor parameters

5.2.1.2.1 Coin Inserted

Parameter name: Coin Inserted

ParameterID: inserted (0x0001)

Description: Returns the indication of coin presence in the phone.

Type: Enumeration

Optional: No

Possible values:

"present"	(0x0001)	Coin is present
"empty"	(0x0002)	No coin, or insufficient coins present

Default: None

5.3 Signals

5.3.1 Coin Presence

Signal name: Coin Presence

SignalID: cpres (0x0001)

Description:

Applies the signal to direct the phone to detect the presence of a coin in order to complete connections for CDF (coin dialtone first) phones.

Signal type: Brief

Duration: Provisioned

5.3.1.1 Additional parameters

None.

5.3.2 Coin Partial Presence

Signal name: Coin Partial Presence

SignalID: cpartpres (0x0002)

Description:

Applies the signal to direct the phone to charge based on the length of the call, rather than on a flat rate. This signal is also used to direct the phone to detect a stuck coin.

Signal type: Brief

Duration: Provisioned

5.3.2.1 Additional parameters

None.

5.3.3 Coin Return

Signal name: Coin Return

SignalID: creturn (0x0003)

Description:

Applies the signal to direct the phone to return the coins in the temporary storage area to the coin return area.

Signal type: Brief

Duration: Provisioned

5.3.3.1 Additional parameters

None.

5.3.4 Coin Collect

Signal name: Coin Collect

SignalID: ccollect (0x0004)

Description:

Applies the signal to direct the phone to place the coins currently in the temporary storage area into the coin vault.

Signal type: Brief

Duration: Provisioned

5.3.4.1 Additional parameters

None.

5.3.5 Reverse

Signal name: Reverse

SignalID: rev (0x0005)

Description:

Applies the signal to direct the phone to disable the DTMF keypad to prevent coin fraud. This signal is also used to disable speech path on CSP (coin semi-postpay) phones between called party answer and a coin deposit.

Signal type: Brief

Duration: Provisioned

5.3.5.1 Additional parameters

None.

5.3.6 Normal

Signal name: Normal

SignalID: norm (0x0006)

Description:

Applies the signal to direct the phone to enable the DTMF keypad. This signal is also used to enable speech path on CSP (coin semi-postpay) phones after a coin deposit, and to reset the coin totalizer.

Signal type: Brief

Duration: Provisioned

5.3.6.1 Additional parameters

None.

5.4 Statistics

None.

5.5 Procedures

The cpres, cpartpres, creturn and ccollect signals prompt the coin phone to return a response indicating whether coins are present in the temporary storage area or not. In order to return this information to the MGC, the MGC should include the cqresp event in the Events Descriptor when applying one of the four primary coin signals.

The coin phone is generally provisioned with the tariff rate for calls originating from the terminal. This means that the MGC only needs to be signalled about the presence or absence of coins, and if the coin total is sufficient to enable service.

CDF terminals require coin deposit prior to making a connection. Typically, coins are requested after dialling if the coin total in the terminal is insufficient for the call.

CSP terminals require coin deposit after establishing the connection, but prior to enabling voice path. Coins are requested after connection based upon the tariff rate of the call.

The signals here correspond to those used to perform coin detection and collection. For further information, consult the appropriate national coin-operated phone specifications.

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