



Cisco BTS 10200 Softswitch Turkish ISUP Feature Module

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This document describes the Turkish ISUP feature for Release 6.0.x of the Cisco BTS 10200 Softswitch and explains how to use this feature. It includes the following topics:

- [Understanding the Turkish ISUP Feature](#)
- [Provisioning](#)
- [Operating](#)

Understanding the Turkish ISUP Feature

The Cisco BTS 10200 Softswitch provides support for the Turkish ISUP variant. The Turkish ISUP feature is based on the ITU-T Q.767 specification and the Turkish-ISUP implementation in the PGW 2200 softswitch. This feature delivers the Cisco BTS 10200 Softswitch to the Turkish markets requiring SS7 network interconnect through the Turkish ISUP protocol variant.

The features and services supported in Turkish ISUP are organized into the following categories:

- [Q.767 Message Support](#)
- [Q.767 Parameter Support](#)
- [Supplementary Services](#)

Q.767 Message Support

- Address Complete Message (ACM)
- Answer Message (ANM)
- Blocking Message (BLO)
- Blocking Acknowledgment Message (BLA)
- Call Progress Message (CPG)



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- Circuit Group Blocking Message (CGB)
- Circuit Group Blocking Acknowledgment Message (CGBA)
- Circuit Group Reset Message (GRS)
- Circuit Group Reset Acknowledgment Message (GRA)
- Circuit Group Unblocking Message (CGU)
- Circuit Group Unblocking Acknowledgment Message (CGUA)
- Connect Message (CON)
- Continuity Message (COT)
- Continuity Check Request Message (CCR)
- Initial Address Message (IAM)
- Release Message (REL)
- Release Complete Message (RLC)
- Reset Circuit Message (RSC)
- Resume Message (RES)
- Subsequent Address Message (SAM)
- Suspend Message (SUS)
- Unblocking Message (UBL)
- Unblocking Acknowledgment Message (UBA)

Q.767 Parameter Support

- Access Transport
- Automatic Congestion Level
- Backward Call Indicators
- Called Party Number
- Calling Party Number
- Calling Party's Category
- Cause Indicators
- Circuit Group Supervision Message Type Indicator
- Closed User Group Interlock Code
- Connected Number
- Continuity Indicators
- End of Optional Parameters Indicator
- Event Information
- Forward Call Indicators
- Nature of Connection Indicators
- Optional Backward Call Indicators
- Optional Forward Call Indicators

- Range and Status
- Subsequent Number
- Suspend/Resume Indicators
- Transmission Medium Requirement
- User Service Information
- User to User Indicators
- User to User Information

Supplementary Services

The supplementary services supported in Turkish ISUP are the same as the services in the ITU Q.767 base. Therefore, no modifications have been made for this feature.

Limitations

The following features and services are not supported in the Turkish ISUP variant:

- Message services
 - Call Modification Completed Message (CMC)
 - Call Modification Reject Message (CMRJ)
 - Call Modification Request Message (CMR)
 - Charge Information Message (CRG)
 - Circuit Group Query Message (CQM)
 - Circuit Group Query Response Message (CQR)
 - Confusion Message (CFN)
 - Delayed Release Message (DRS)
 - Facility Accepted Message (FAA)
 - Facility Reject Message (FRJ)
 - Facility Request Message (FAR)
 - Forward Transfer Message (FOT)
 - Loop Back Acknowledgment (LPA)
 - Overload Message (OLM)
 - Pass-along Message (PAM)
 - Unequipped Circuit Identification Code Message (UCIC)
 - User-to-user Information Message (USR)
- Parameter Support
 - Call Modification Indicators
 - Call Reference
 - Circuit State Indicator

- Connection Request
- Facility Indicators
- Information Indicators
- Information Request Indicators
- Original Called Number
- Redirecting Number
- Redirection Information
- Redirection Number
- Signaling Point Code
- Transit Network Selection

Industry Standards

The features and services in Turkish ISUP are based on the ITU-T Q.767 standard specification and the Turkish implementation for PGW 2200.

Standard	Title
ITU ISUP Q.767	White & Blue Book—International Interconnect

Provisioning

This section explains how to provision the default values of the timers for the Turkish ISUP variant.



Note

For complete CLI information, see the Cisco BTS 10200 Softswitch CLI Database.

You need to explicitly set the following timer values in the SS7 Trunk Group Profile table, to enable BTS to use the Turkish ISUP configurations:

Timer Type	Value (seconds)
t36	15000
t35	18000
t26	120000
t25	5000
t24	1000
t22	10000
t20	10000
t18	10000
t16	10000
t14	10000
t12	10000

Timer Type	Value (seconds)
t9	180000
t8	15000
t7	20000
t6	20000
t1	10000

**Note**

For complete CLI information, see the Cisco BTS 10200 Softswitch CLI Database.

**Note**

In the Cisco BTS 10200 Softswitch, the default values in the configuration tables for Trunk Group (TG) profile are not specific to any variant. It is expected that you will provision the TG profile with variant-specific timer values. For example, if a Turkish ISUP customer requires that BTS follow the Turkish ISUP-specific timer values at the ISUP level, the values should be configured in the SS7 Q767 Trunk-Group profile. This profile should then be used when the Turkish ISUP Trunk-Group is provisioned.

Operating

A new value has been added to the installed default variant base to support Turkish ISUP. It introduces the value Q767_TURKISH for the ID token in the User Part Variant Base and User Part Variant tables.

To use the Turkish-ISUP feature, you need to perform the following configurations in the EMS CLI:

- Add Q767_TURKISH as the user-part variant id in the User Part Variant table.
- Specify Q767_TURKISH as user-part-variant-id while you are configuring the call control route of a Q767 Turkish trunk in the Call Control Route table.

**Note**

For complete CLI information, see the Cisco BTS 10200 Softswitch CLI Database.

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