

Use the following tables when reading debugs and the associated values within the debugs.

| <b>Guide Contents</b>   |
|---|
| <a href="#"><u>Troubleshooting Cisco IOS Voice Overview</u></a>         |
| <a href="#"><u>Debug Command Output on Cisco IOS Voice Gateways</u></a> |
| <a href="#"><u>Filtering Troubleshooting Output</u></a>                 |
| <a href="#"><u>Cisco VoIP Internal Error Codes</u></a>                  |
| <a href="#"><u>Troubleshooting Cisco IOS Voice Telephony</u></a>        |
| <a href="#"><u>Troubleshooting Cisco IOS Voice Protocols</u></a>        |
| <a href="#"><u>Troubleshooting Cisco IOS Telephony Applications</u></a> |
| <a href="#"><u>Monitoring the Cisco IOS Voice Network</u></a>           |
| <a href="#"><u>Cause Codes and Debug Values</u></a>                     |

## Contents

- [1 Q.931 Call Disconnection Causes](#)
- [2 Codec Negotiation Values](#)
- [3 Tone Types](#)
- [4 FAX-Rate and VAD Capabilities Values](#)

## Q.931 Call Disconnection Causes

These are cause codes from the **debug voip ccapi inout** command.

| <b>Call Disconnection Cause Value (in Hex)</b> | <b>Meaning and Number (in Decimal)</b>               |
|--|--|
| CC_CAUSE_UANUM = 0x1                           | Unassigned number (1)                                |
| CC_CAUSE_NO_ROUTE = 0x3                        | No route to destination (3)                          |
| CC_CAUSE_NORM = 0x10                           | Normal call clearing (16)                            |
| CC_CAUSE_BUSY = 0x11                           | User busy (17)                                       |
| CC_CAUSE_NORS = 0x12                           | No user response (18)                                |
| CC_CAUSE_NOAN = 0x13                           | No user answer (19)                                  |
| CC_CAUSE_REJECT = 0x15                         | Call rejected (21)                                   |
| CC_CAUSE_INVALID_NUMBER = 0x1C                 | Invalid number (28)                                  |
| CC_CAUSE_UNSP = 0x1F                           | Normal, unspecified (31)                             |
| CC_CAUSE_NO_CIRCUIT = 0x22                     | No circuit (34)                                      |
| CC_CAUSE_NO_REQ_CIRCUIT = 0x2C                 | No requested circuit (44)                            |
| CC_CAUSE_NO_RESOURCE = 0x2F                    | No resource (47)                                     |
| CC_CAUSE_NOSV = 0x3F                           | Service or option not available, or unspecified (63) |

## Codec Negotiation Values

These codec negotiation values are from the **debug voip ccapi inout** command.

| <b>Negotiation Value</b> | <b>Meaning</b>    |
|--------------------------|-------------------|
| codec=0x00000001         | G711 ULAW 64K PCM |
| codec=0x00000002         | G711 ALAW 64K PCM |
| codec=0x00000004         | G729              |

|                  |               |
|------------------|---------------|
| codec=0x00000004 | G729IETF      |
| codec=0x00000008 | G729a         |
| codec=0x00000010 | G726r16       |
| codec=0x00000020 | G726r24       |
| codec=0x00000040 | G726r32       |
| codec=0x00000080 | G728          |
| codec=0x00000100 | G723r63       |
| codec=0x00000200 | G723r53       |
| codec=0x00000400 | GSMFR         |
| codec=0x00000800 | G729b         |
| codec=0x00001000 | G729ab        |
| codec=0x00002000 | G723ar63      |
| codec=0x00004000 | G723ar53      |
| codec=0x00008000 | CLEAR_CHANNEL |

## Tone Types

| Tone Types                   | Meaning  |
|------------------------------|--|
| CC_TONE_RINGBACK 0x1         | Ring tone  |
| CC_TONE_FAX 0x2              | Fax tone   |
| CC_TONE_BUSY 0x4             | Busy tone  |
| CC_TONE_DIALTONE 0x8         | Dial tone  |
| CC_TONE_OOS 0x10             | Out of service tone                                    |
| CC_TONE_ADDR_ACK 0x20        | Address acknowledgement tone                           |
| CC_TONE_DISCONNECT 0x40      | Disconnect tone  |
| CC_TONE_OFF_HOOK_NOTICE 0x80 | Tone indicating that the phone is off-hook             |
| CC_TONE_OFF_HOOK_ALERT 0x100 | A more urgent version of CC_TONE_OFF_HOOK_NOTICE       |
| CC_TONE_CUSTOM 0x200         | Custom tone-used when you are specifying a custom tone |
| CC_TONE_NULL 0x0             | Null tone  |

## FAX-Rate and VAD Capabilities Values

| Values               | Meaning                       |
|----------------------|-------------------------------|
| CC_CAP_FAX_NONE 0x1  | Fax disabled or not available |
| CC_CAP_FAX_VOICE 0x2 | Voice call                    |
| CC_CAP_FAX_144 0x4   | 14,400 baud                   |
| CC_CAP_FAX_96 0x8    | 9,600 baud                    |
| CC_CAP_FAX_72 0x10   | 7,200 baud                    |
| CC_CAP_FAX_48 0x20   | 4,800 baud                    |
| CC_CAP_FAX_24 0x40   | 2,400 baud                    |
| CC_CAP_VAD_OFF 0x1   | VAD disabled                  |
| CC_CAP_VAD_ON 0x2    | VAD enabled                   |