

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

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