H.323/SIP Internet Telephony Gateway
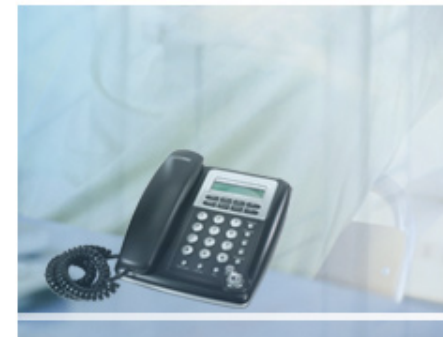
VIP - 2 / 4 / 8 / 16 / 24 Series
Battery Reverse / Polarity Reverse Generation

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Option: C tone Generation – Explain in Note

This document is designed to help explain how the gateway generate the battery reverse.

Planet's VoIP Gateway FXS port can generate Battery Reverse Signaling [DC:+3.3 volt]: Loop signaling in which battery and ground are reversed on the tip and ring of the loop to give an "off-hook "signal when the gateway receive the connecting signal "SIP 200 OK"/ "SIP 200 BYE"or "Q.931 connect"/"Q.931 release" from network.
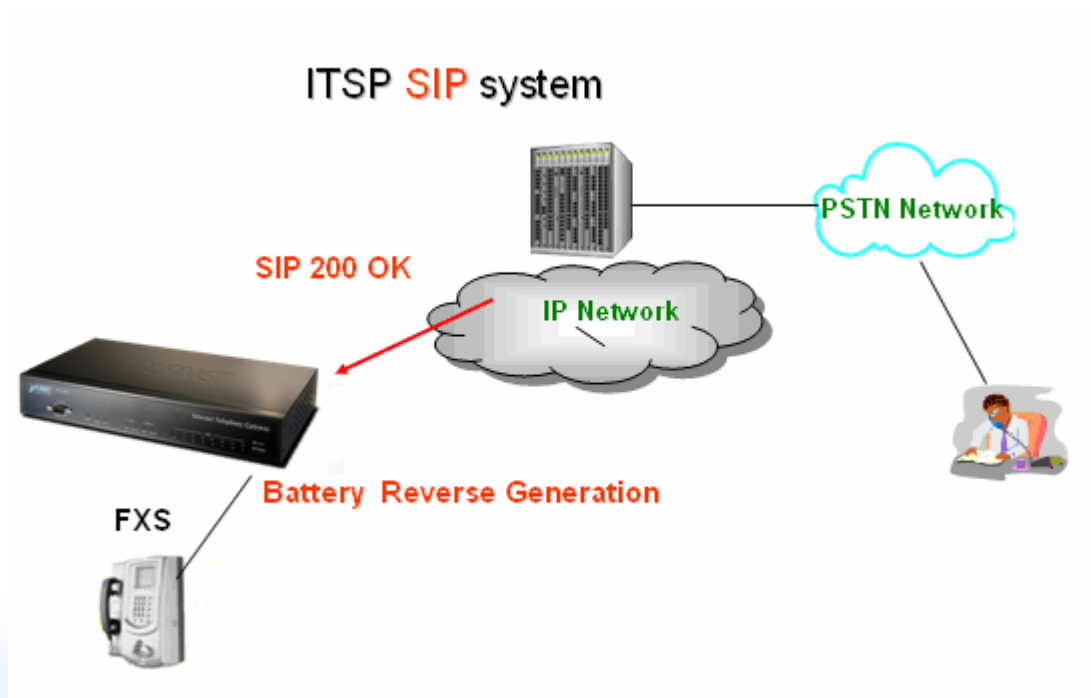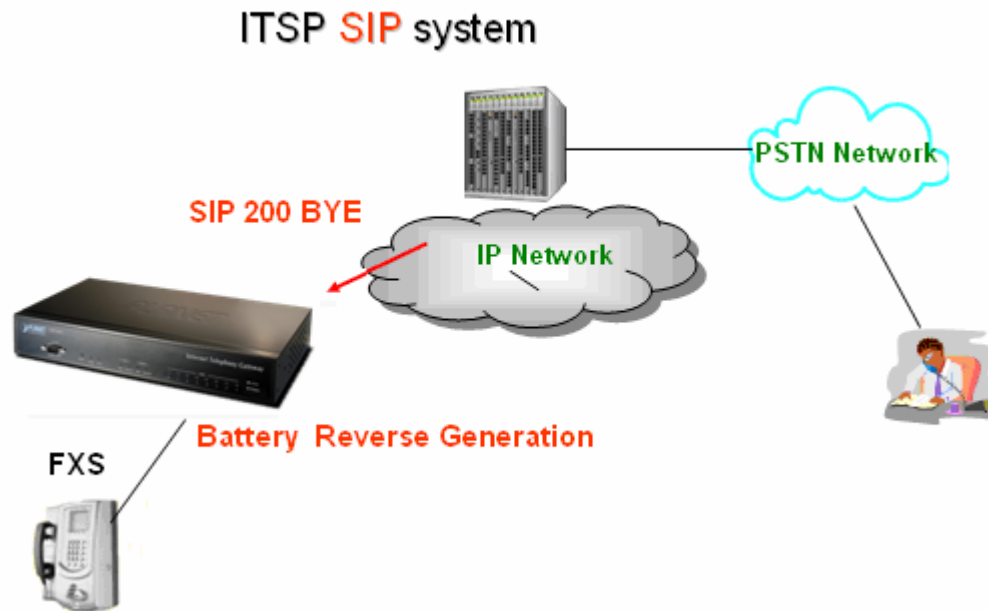
VoIP Gateway Configuration

UK PSTN release tone detection	○ Enable ● Disable
FXS Flash Detection	100 ～ 500 msec
FXO Flash Duration Generation	100 msec
Ring Frequency	20 Hz
DTMF tone power	● -7dbm ○ -6dbm ○ -3dbm ○ -1dbm ○ 0dbm ○ +1dbm ○ +3dbm ○ +6dbm
FXO Transmit Hybrid	● Mode 0 ○ Mode 1 ○ Mode 2
FXO Ringer Voltage Threshold	● Low ○ Medium ○ High
FXO Ringer Voltage Filter	● Disable ○ Enable
FXS Battery Reversal Generation	● Enable ○ Disable ○ Generate Tone
FXO Answer Supervision	● Disable ○ Battery Reversal Detection ○ Voice Detection
Line Silence Disconnect	○ Enable ● Disable
FXO Answer Delay Time	0 msec(from 0 to 8000 msec)
FXO Answer Mode	● Ringing Answer ○ Connectting Answer ○ No Answer
Auto Learn Busy Tone Disconnect	● Enable ○ Disable
FXO Dial Mode	● DTMF Mode ○ Pulse Dial Mode

SIP Application

When the gateway receive the "SIP 200 OK" SIP signals from Billing System of ITSP, it will generate the "battery reverse" from FXS port to the phone immediately.
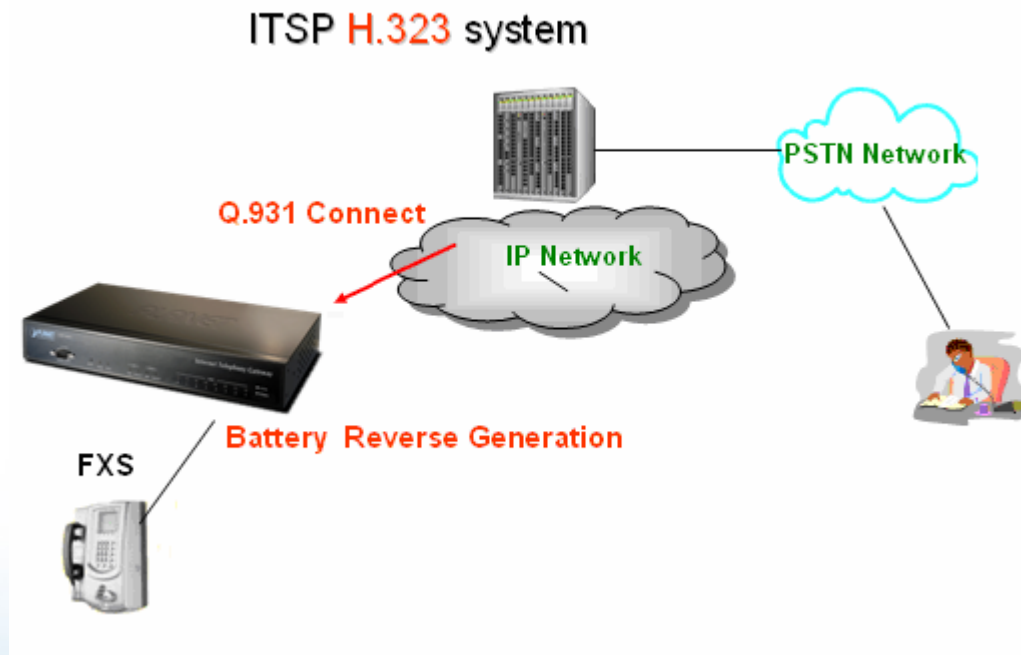
When the gateway receive the "SIP 200 Bye" SIP signals from Billing System of ITSP, it will generate the "battery reverse" from FXS port to the phone immediately.
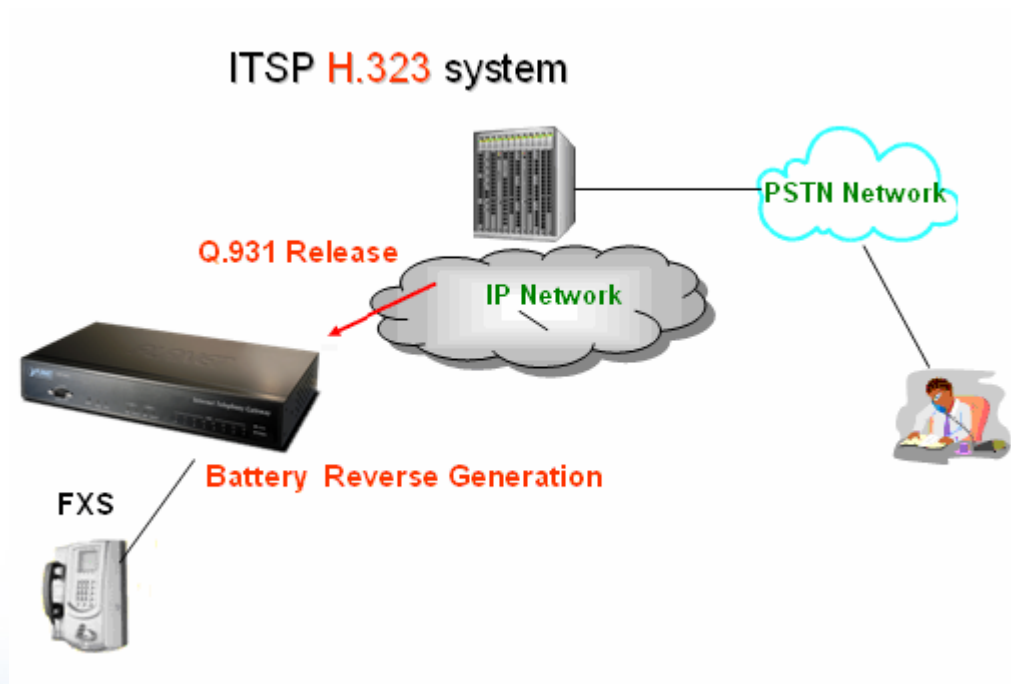
H.323 Application
When the gateway receive the "Q.931 Connect "H.323 signals from Billing System of ITSP, it will generate the "battery reverse" from FXS port to the phone immediately.

When the gateway receive the "Q.931 Release" H.323 signals from Billing System of ITSP, it will generate the "battery reverse" from FXS port to the phone immediately.

Note: C Tone Generation
Soundwin's Gateway also provides the "C tone generation" instead of battery reverse from FXS port

UK PSTN release tone detection	○ Enable ⊙ Disable
FXS Flash Detection	100 ~ 500 msec
FXO Flash Duration Generation	100 msec
Ring Frequency	20 Hz
DTMF tone power	⊙ -7dbm ○ -6dbm ○ -3dbm ○ -1dbm ○ 0dbm ○ +1dbm ○ +3dbm ○ +6dbm
FXO Transmit Hybrid	⊙ Mode 0 ○ Mode 1 ○ Mode 2
FXO Ringer Voltage Threshold	⊙ Low ○ Medium ○ High
FXO Ringer Voltage Filter	⊙ Disable ○ Enable
FXS Battery Reversal Generation	○ Enable ○ Disable ⊙ Generate Tone
FXO Answer Supervision	⊙ Disable ○ Battery Reversal Detection ○ Voice Detection
Line Silence Disconnect	○ Enable ⊙ Disable
FXO Answer Delay Time	0 msec(from 0 to 8000 msec)
FXO Answer Mode	⊙ Ringing Answer ○ Connectting Answer ○ No Answer
Auto Learn Busy Tone Disconnect	⊙ Enable ○ Disable
FXO Dial Mode	⊙ DTMF Mode ○ Pulse Dial Mode

Activating IP Power

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