mspQoS 3.0.0.25 for BCM 3.0/BCM 3.0.1

Problem Description:

The BCM 3.0/3.0.1 H.323 protocol stack is not compatible with the BCM 3.5 H.323 protocol stack. 3.5 now supports H.323 version 4, but prior releases only support version 2. This came about because the RadVision stack was upgraded in the VoIP module, but the H.323 encoder/decoder was not upgraded in the mspqos driver. In v4, RadVision changed the order in which it sent some of its messages.

Solution Description:

The mspqos driver has been modified to be compatible with BCM 3.5's H.323 protocol stack and the order in which messages are sent. BCM 3.0/3.0.1 will still only support H.323 v2 features.

Designer Sanity: Tests were as follows:

> 1. Setup two BCMs, each with 2 phones. 1 BCM had 2 IP phones and the other had 1 IP phone and 1 digital phone. The connection between the BCMs was LAN. BCM1 is release 3.5 and BCM2 is release 3.0 (or 3.0.1).

> 2. Tests are made with the Remote Gateway Protocol Type set to None and then set to SL1. When SL1 is tested, the MCDN over IP license key must be added.

Calls are made from 3.0 to 3.5 and vice versa. Test with call forwarding, call parking, and call hold and transfer.

List of CRs Resolved:

- Q00697149: No voice path on transferred call when NAT is enabled
- Q00623514: BCM3.01 B4 No voice path between remote registered i200x w/NAT and IPSec enabled
- Q00649157-02: RadVision stack is incompatible with OSS encoder/decoder
- Q00589211: Blue screen
- Q00613975: 4042 event log error
- Q00627517: System Reset - Blue Screen
- Q00607075: Blue Screen caused by MSPQOS
- Q00640575: VoIP quality degrades under load, FTP traffic

Software Components Changed:

- mspQoS.sys

BCM Release and Affected Profiles: BCM 3.0 & BCM 3.0.1