

BCM 3.6 QoS version 3.6.0.18

Description:

BCM 3.6 QoS 3.6.0.18

Problem

- Bluescreen occurs after installation of BCM 3.6 Patch #1. They occur within ntoskrnl.exe, but stop after removing patch.
- Need an additional check for the SDL WAN interface.

Solution

- There was a mismatch between the sizes of the buffer passed from Unified Manager to the mspQoS driver. This resulted in writing to memory that did not belong to the driver, hence the vagueness of the bluescreen.
- When more than 2 segments are detected for an H.225 message, send a TCP ACK back up the stack. This fools the sender into sending more segments of the message. We also fixed the timeout mechanism for old H.225 held buffer entries.

BCM 3.6 QoS 3.6.0.16

Problem

- Note: NAT rules should be applied to the ISDN interface that is taking over when the WAN connection fails when SNMP management to a specific IP address is needed.
- If H.225 packets are segmented into three or more packets, the call will not go through.

Solution

- Special flag was added to NAT rules when ISDN connection came up.

BCM 3.6 QoS 3.6.0.15

Problem

- BCM DHCP Relay does not relay DHCP Offer from Win2k server to Win98 client.

Solution

- Replaced request for user class info in DHCP discover/request message with IP default Time to Live.

BCM 3.6 QoS 3.6.0.14

Problem

- During an H.323 vulnerability test suite, an issue was found with mspqos.sys which caused a bluescreen.MspQoS event message 4045 appears in log.

Solution

- The bluescreen was caused by not validating a pointer.
- Buffer used for segmented signaling messages wasn't big enough. Increased the size of the buffer.

BCM 3.6 QoS 3.6.0.13

Problem

- When Allow Access Network is set to NO, BCM does not block IP traffic coming over ISDN link and going to machines connected to BCM LAN/WAN.

Solution

- Added code for dropping IP traffic arriving on ISDN link and going out of LAN/WAN interface when Allow Network Access is set to NO.

BCM 3.6 QoS 3.6.0.12

Problem

- SIP Client connecting through a BCM to an MCS5100 does not work. This was caused by incorrectly modifying part of the UDP packet.
- During file transfer through the Firewall, eventually the transfer would stop. This was caused by the TCP window value being adjusted and then the amount of data in the packet would go over the new window size.
- The mspQoS driver crashed in one of the SIP parser routines when the one of the fields in a SIP packet passing through the BCM was zero. We don't know why this value is zero (it shouldn't be) but the BCM should not crash if it is.
- SIP packets passing through the BCM are causing large numbers of event log messages to be generated. This was caused by not understanding certain SIP messages that passed through the BCM.
- Needed to be able to manage SNMP on the BCM using a specified interface IP address. This is because the system will assign the IP address of the interface where the packet will be sent out of. In certain instances behind firewalls, it is desirable to set this to use only one of the interface addresses.

Solution

- The driver no longer incorrectly modifies the SIP UDP packet.
- The window values stored in the Firewall state are now the maximum values negotiated over the entire TCP session.
- Code has been added which checks to see if the field in the SIP packet is null.
- Added a check for unknown but valid SIP messages.
- Modified NAT to be able to put the IP address of any of the interfaces in the Public field and the IP address of this NAT interface in the Private field.

CRs Resolved:

- **BCM 3.6 QoS 3.6.0.18**
 - Q00972313: BCM Blue screens
 - Q00705861: Three Segment Problem
- **BCM 3.6 QoS 3.6.0.16**
 - Q00999404: NAT is not working with ISDN backup connection
- **BCM 3.6 QoS 3.6.0.15**
 - Q00979221: SRG not passing DHCP to Win98
- **BCM 3.6 QoS 3.6.0.14**
 - Q00982228: Newer H.323 PROTOS test suite causes QoS to fail and BCM restart
 - Q00997606: H225 Messaging error on SRG
- **BCM 3.6 QoS 3.6.0.13**
 - Q00967319: Allow Network Access Feature
- **BCM 3.6 QoS 3.6.0.12**
 - Q00889038: MCS5100 softphone does not work in B2B from BCM 3.6
 - Q00728493: BCM - Firewall Rule Problem
 - Q00897115: Blue screen when SIP traffic from MCP Client to MCS5100 is routed through the BCM
 - Q00900551: mspQoS SIP error logged in NT Event Log for every SIP message passing through BCM
 - Q00834761: Need to be able to manage BCM from specified IP address

Status:

- Generally Available -