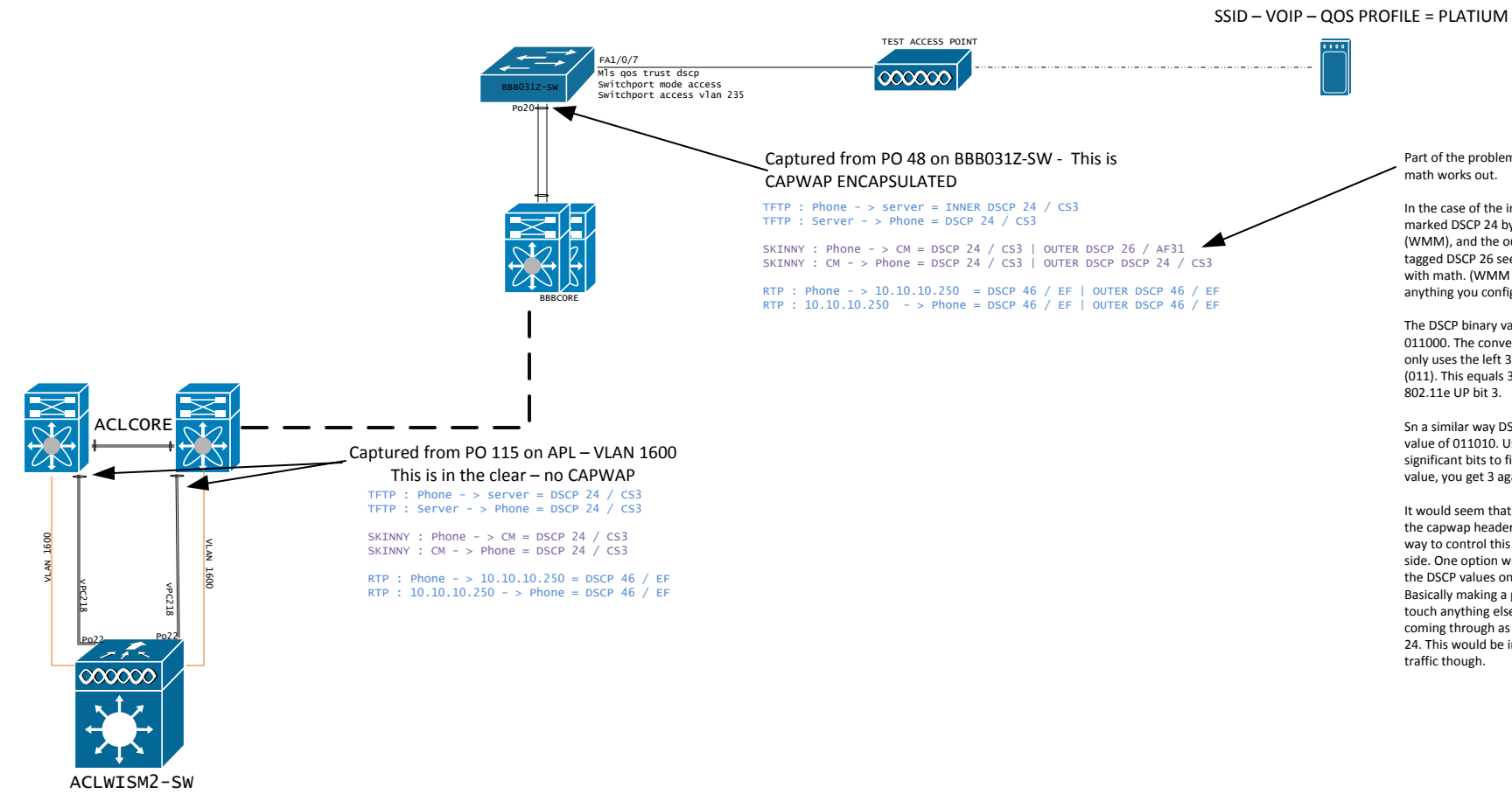


tftp



Part of the problem here is how the math works out.

In the case of the inner packet being marked DSCP 24 by the phone (WMM), and the outer packet getting tagged DSCP 26 seems to have to do with math. (WMM values win over anything you configure on the WLC).

The DSCP binary value of 24 is 011000. The conversion to 802.11e only uses the left 3 significant bits (011). This equals 3. Which maps to 802.11e UP bit 3.

So a similar way DSCP 26 has a binary value of 011010. Using the 3 most significant bits to find the 802.11e value, you get 3 again.

It would seem that the AP just tags the capwap header as 26. There is no way to control this from the wireless side. One option would be to mutate the DSCP values on the access port. Basically making a policy map to not touch anything else, but anything coming through as 26, remark it to 24. This would be indiscriminate of all traffic though.

Access Point QoS Translation Values AVVID Traffic Type	AVVID IP DSCP	QoS Profile	AVVID 802.1p	IEEE 802.11e UP
Network control	56 (CS7)	Platinum	7	7
Inter-network control (CAPWAP control, 802.11 management)	48 (CS6)	Platinum	6	7
Voice	46 (EF)	Platinum	5	6
Interactive video	34 (AF41)	Gold	4	5
Streaming video	32 (CS4)	Gold	4	5
Mission critical	26 (AF31)	Gold	3	4
Call signaling	24 (CS3)	Gold	3	4
Transactional	18 (AF21)	Silver	2	3
Network management	16 (CS2)	Silver	2	3
Bulk data	10 (AF11)	Bronze	1	2
Best effort	0 (BE)	Silver	0	0
Scavenger	8 (CS1)	Bronze	0	1

AVVID Traffic Type	AVVID IP DSCP	QoS Profile	AVVID 802.1p	IEEE 802.11e UP
Network control	56 (CS7)	Platinum	7	7
Inter-network control (CAPWAP control, 802.11 management)	48 (CS6)	Platinum	6	7
Voice	46 (EF)	Platinum	5	6
Interactive video	34 (AF41)	Gold	4	5
Mission critical	26 (AF31)	Gold	3	4
Transactional	18 (AF21)	Silver	2	3
Bulk data	10 (AF11)	Bronze	1	2
Best effort	0 (BE)	Silver	0	0
Scavenger	2	Bronze	0	1

Note: The IEEE 802.11e UP value for DSCP values that are not mentioned in the table is calculated by considering 3 MSB bits of DSCP. For example, the IEEE 802.11e UP value for DSCP 32 (100 000 in binary), would be the decimal equivalent of the MSB (100) which is 4. The 802.11e UP value of DSCP 32 is 4.