

## Jan – Feb 2017

Intrado/CTL propose SIP (ATIS standard) interconnection

Comtech rejects ATIS IP, recommends "using standard ISUP/TDM" interconnection, with basic SIP as second choice [Ex. SJH-5C (3-5)]

## **Sep 2017**

Comtech becomes aware Sprint discontinuing service; asks TNS to help replace "half of the SS7 connectivity for 911 traffic in WA

Contech acknowledges urgency [Exs. JDW-34C (2-3)]

Red Infinera network outage – no effect on 911 services

Root cause analysis reveals software v.16.2 allowed certain 64 byte packets to enter IGCC

Infinera scrubs all its Lumen networks and recommends IGCC closed on Red and Orange, but not Green (still on v.15.3.3, and thus effectively locked) [Ex. JDW-5C]

Green Infinera network outage (4 packets malformed, combined to be larger than 64 bytes and retained their header information, enter IGCC, leading to packet storm)

CTL-served PSAPs unaffected. Comtechserved PSAPs impaired; all 4 SS7 links on Green network (unknown to CTL) [Exs. SJH-1TC (31-36), SJH-11C, CDK-3-4, SET-1TC (24-38), MDV-1TC (10-20), TJM-1C (8-10), JDW-4, 14C, 27C-30C]