Working Group
For
Centralized Communications Management

WG/CCM
COPC Status Updates and Recommendations

May 3-4, 2016

LCDR Tristan Borne
WG/CCM Chairperson

Agenda

- Purpose
- CCM Team Membership
- Process Towards the End Goal
- Primary OTN Connection Status
- Secondary OTN Connection Status
- Flow Chart
- COPC Action Items

Purpose

Coordinate communication issues between the Operational Processing Centers (OPC), monitor the effectiveness of those communications, and to do capacity planning and forward projection of capability needs.

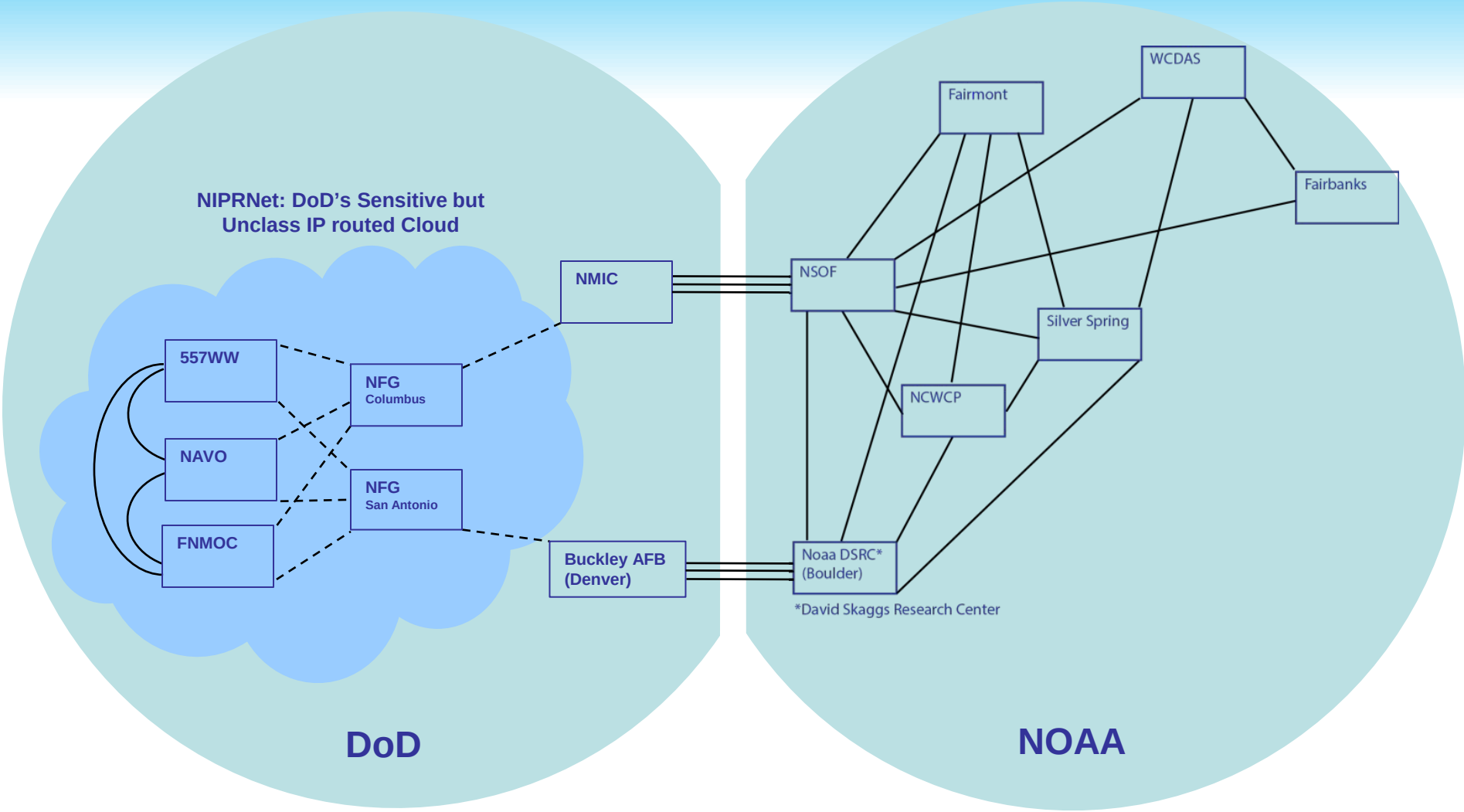
Communication representatives from each OPC and/or its servicing communication organization will comprise membership.

WG/CCM Team

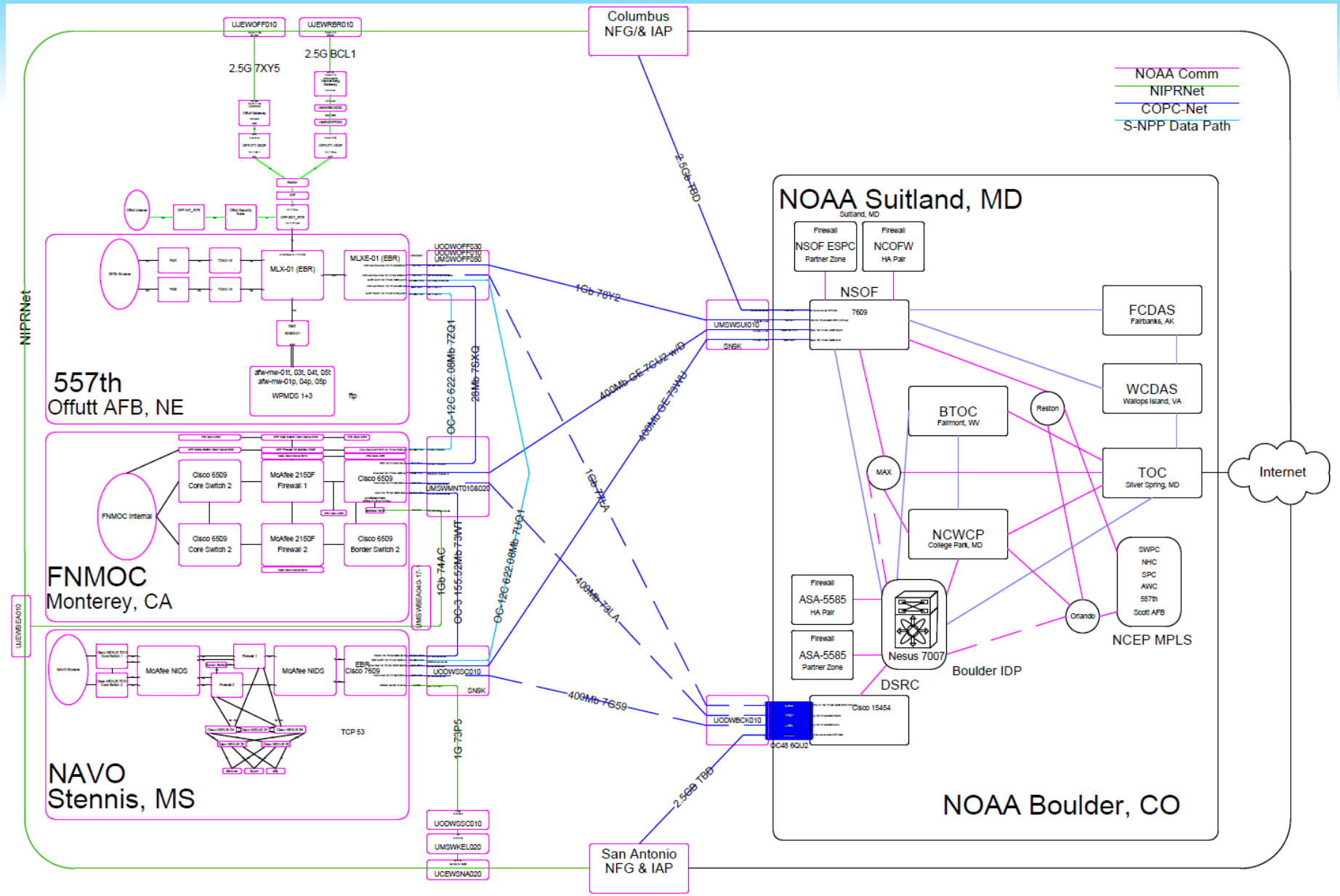
Member	Organization
Jason Rance Billy Cowgill Marvin Cunningham TSgt Michael Dent	Air Force/557th WW
Doug Fenderson	NOAA/NWS/NCEP/NCO
Craig Wade OSGS Russell Dyson OSPO	NOAA/NESDIS
Tracy LePire	Navy/NAVO
LCDR Tristan Borne (CCM Chair) Trent Hancock Derek Eddington	Navy/FNMOC
Kevin Greenlee	Navy/NAVIFOR/CIO-2
Ken Barnett	OFCM
Technical Advisor/SME/Alternate	**Organization**
MAJ Rubin Neypes Bruce Kenison (alternate)	DISA Field Office USSTRATCOM
Jagdish Rai	DISA

*** New to the role or group**

End Goal: What CCM is working towards



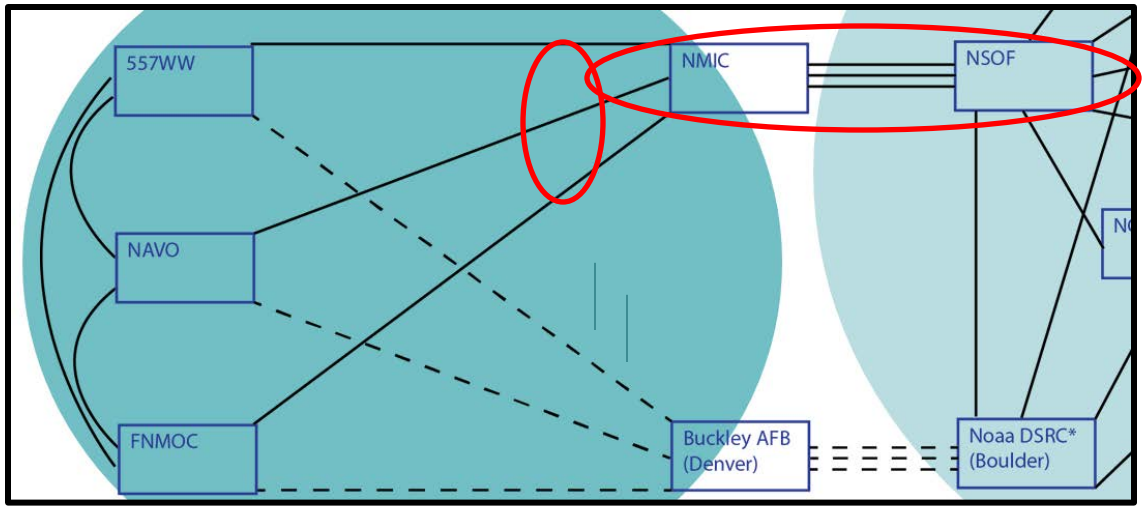
Network Operational View



Primary COPC Network Connection

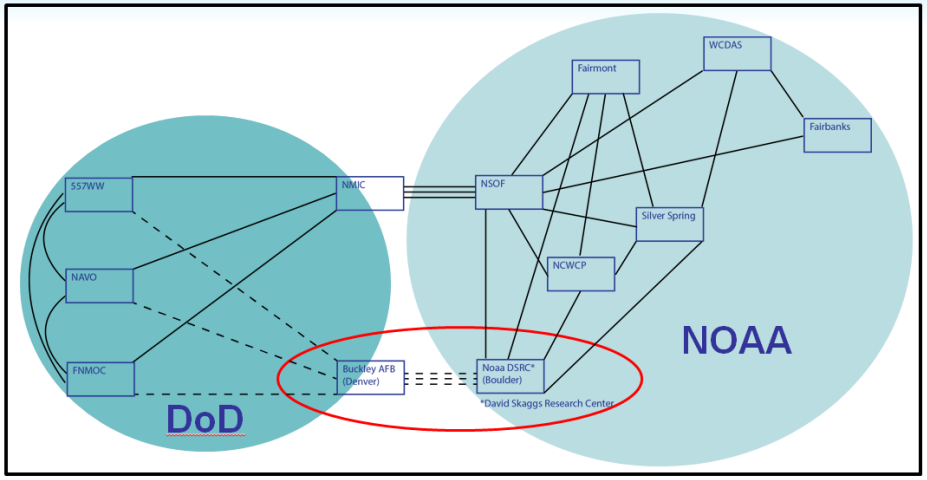
- Pending upgrades to Navy circuits were completed.
  - NMIC switch upgrade (SN9K multi-service switch) completed mid Nov 2015.
  - Coordinated cutover of the two Navy operational circuits to the new switch and upgraded the bandwidth.

- Currently AF 557th WW is 1gbps, NAVO is 400mbps (upgraded from 28mbps), FNMOC is 400mbps (upgraded from 155mbps).

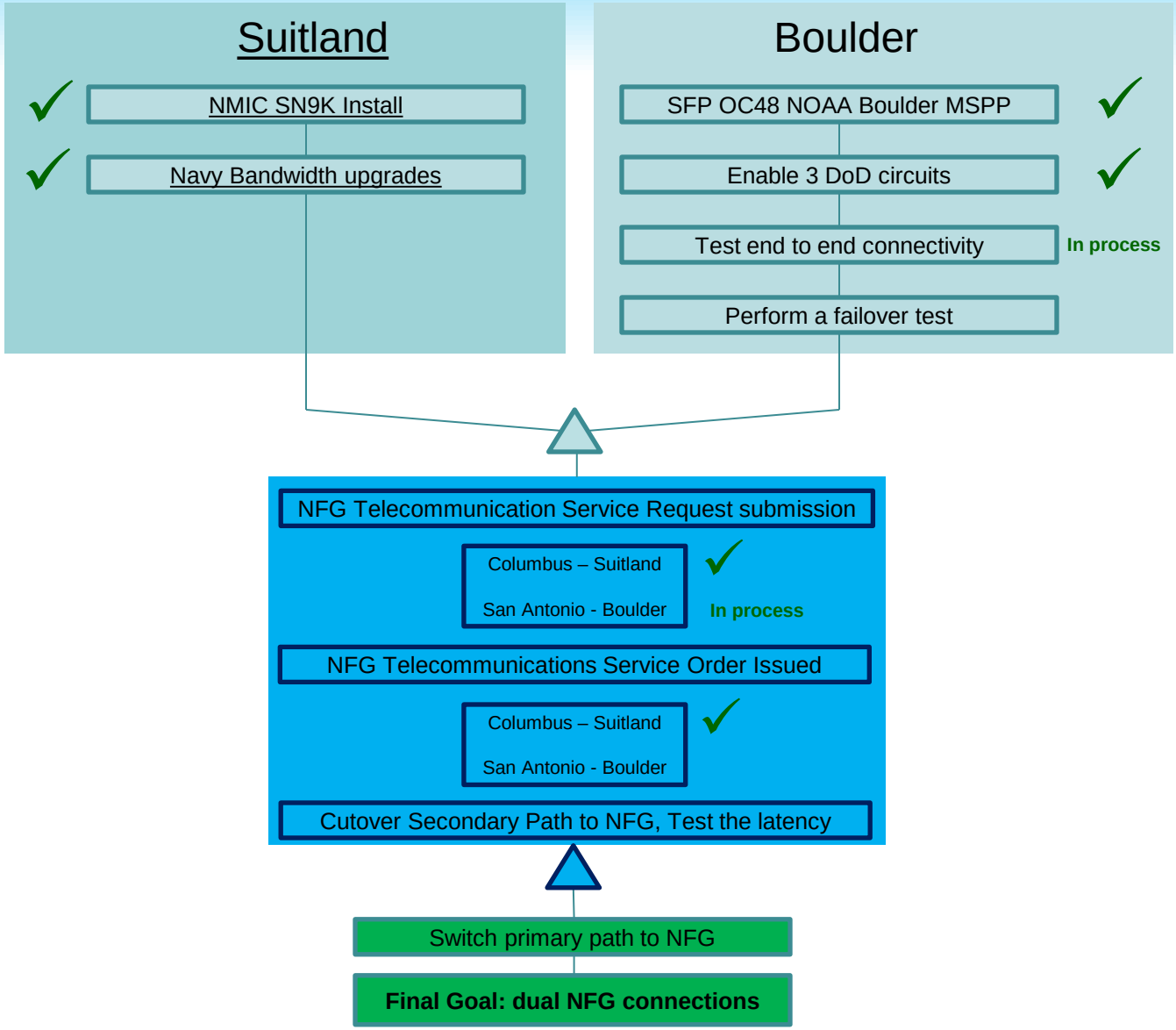


Secondary COPC Network Connection

- NOAA Boulder and DoD Buckley trunk (6QU2) has been established.
  - Special thanks to Mark Reeser (NOAA contractor at Boulder) and Bob Risky (DISA) for configuring the Boulder MSPP (router). Additional support is necessary.
- NOAA Boulder site will mirror the NOAA Suitland site connectivity to OPCs.
  - 1gbps connection for AF 557th WW, 400 mbps connection for FNMOC and a 400 mbps connection for NAVO.
- FNMOC (73LA), NAVO (7G59) and AF 557th (77LA) circuits to Boulder established and "In-Effect".
  - All 3 circuits are capable of pinging from the DoD OPCs to Boulder and NOAA Boulder can ping each DOD OPC. [Successful router to router pinging completed.]
  - Additionally, AF conducted full 1 GB capacity utilization testing.



Process Flow Chart



COPC Network Action Items

COPC Action Item 2013-1.5: Implement an end-to-end latency test exchange using representative proxy data from NOAA (NESDIS, TOC, and NCEP) through NFG to each DoD OPC].

- Overall concept: Establish the 2nd connection, establish a connection to a NFG, and test latency with a large data set over a long period of time (to not impact the operational path).
- Utilize NFGs within COPC network to exchange data between DoD and NOAA.
  - DISA's published SLA guaranteeing DISA node to DISA node will NOT exceed 100ms CONUS and 150ms OCONUS.
- CCM recommends keeping this action item open.

COPC Action 2015-1.4: Make a recommendation about the utilization of the 2nd COPC network path (Boulder). [Concurrent usage or regular scheduled failover tests].

- CCM recommends utilizing as Failover Path with routine testing.
  - Configure as a protected circuit allowing automatic fallback if primary COPC path suffers an outage.
  - Provides for optimum network reliability and robustness.
- CCM recommends closing this action item.

Questions

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