

COPC Action Items Status

Fall 2016 Action Items

COPC Action Item 2016-2.1: Plan a secure meeting directly after the Spring 2017 COPC at NSOF.

Purpose: To allow the OPCs to discuss potential high side issues and coordination.

Priority: L

OPR: CSAB

Suspense: At the next COPC.

Status as of 30 March 2017: Recommend Closing.

- **CSAB 01 December 2016:** DOD CSAB reps will discuss with their COPC representatives: (1) the availability of a SCIF meeting room at NSOF and (2) the potential topics, as prep for the CSAB F2F to determine whether the SCIF will be used. Additionally, it is assumed that the Joint Worldwide Intelligence Communications System (JWICS) will not be needed.
- **CSAB 19 January 2017:** No items identified yet but we will discuss this at the CSAB F2F. NESDIS will need 2 weeks before COPC as a deadline to submit all clearances.
- **CSAB 16 February 2017:** No update.
- **CSAB 30 March 2017:** No topics for discussion, CSAB recommends closure.

COPC Action Item 2016-2.2: Revalidate the previous captured telecommunication bandwidth requirements across the COPC partners.

Purpose: Updating these requirements will identify current and future data flows including source, destinations, volume, and related COPC business functions. This information will be used to validate bandwidth capacities for the MPG/NFG.

Priority: M

OPR: WG/CCM (OCR: CSAB and WG/OD)

Suspense: At the next COPC.

Status as of 30 March 2017: Recommend Closing.

- **CSAB 01 December 2016:** CSAB would like to get the updated telecom bandwidths submitted by the March F2F and have the CCM be the POC.
- **CSAB 19 January 2017:** Data request will go out to CCM members as primary POC but they will need assistance to update.
- **CSAB 16 February 2017:** Data call went out on Feb 9th to CCM, CSAB, and OD members with a request for the OPCs to update and return by Mar 27th.
- **CSAB 30 March 2017:** CSAB recommends closure with submission of a simple ROM validation based on current load. [CSAB will recommend having the CSAB, OD, and CCM create a new template with necessary columns (time of day, formats, volume...) and the estimated work load to complete (fill in with the data) the new potential template for COPC approval at the Fall 2017 meeting.]

COPC Action Item 2016-2.3: Understand the current data transfer times and add this information to a new column in the *Mission Essential Data Exchange Among OPCs* table.

Purpose: Look at our current data transfer times to have a baseline latency so we can sufficiently tell DISA if the MPG does not meet our requirements.

Priority: H

OPR: CSAB (OCR: WG/CCM and WG/OD)

Suspense: At the next COPC.

Status as of 30 March 2017: Recommend Closing.

- **CSAB 01 December 2016:** It was requested to define transfer time to keep the OPCs consistent on content (this will also be added to this AI once finalized.) See 2016-12 ROA for draft definition.
- **CSAB 16 February 2017:** NAVO is working to develop a process to estimate a baseline.
- **CSAB 30 March 2017:** Too difficult to measure per data type so NAVO has developed a testing file and tested sending this file to NESDIS and FNMOC. The reverse testing will soon be conducted. Same process would then be used to evaluate through JRSS and MPG/NFG. CSAB recommends closing this action and keeping the method as tool for testing and comparing bandwidth exchanges.

COPC Action Item 2016-2.4: OPCs to determine how best to route data to both College Park and Boulder IDPs.

Purpose: To understand the advantages and disadvantages of double sending the DOD/OPC's data to both IDPs. (Method, resources, process impact on failover capability of the COPC network, bandwidth impacts, and risks of data loss).

Priority: H

OPR: WG/CCM

Suspense: At the next COPC.

Status as of 30 March 2017: Recommend Closing..

- **CSAB 01 December 2016:** Implementation will be completed by Dec 31st. One current issue with the 557 is being worked.
- **CSAB 19 January 2017:** 557 has determined that the best method was top level DNS for getting the data to both IDPs and close this action. FNMOC is also using top level DNS because the IDP is not yet using SFTP. NAVO is dual routing for in situ and wave flow data but still needs to work on SST and sea surface anomaly data.
- **CSAB 16 February 2017:** NCEP has requested NAVO look into a top level DNS.
- **CSAB 30 March 2017:** CCM recommends closure.

COPC Action Item 2016-2.5: Have a lessons learned briefing at the next COPC to review the OPCs' ATO (CCRI) and C&A process.

Purpose: To share lessons learned from security practices from the other OPCs.

Priority: L

OPR: WG/CCM

Suspense: At the next COPC.

Status as of 19 January 2017: Recommend closing.

- **CSAB 01 December 2016:** Plan to have a telcon with DOD and add a small summary slide to the CCM briefing to COPC.
- **CSAB 19 January 2017:** 557 and FNMOC personnel held this telcon. CCM will add a line to the CCM briefing and recommends closing this action.

COPC Action Item 2016-2.6: WG/OD Conventional will recommend a new co-chair.

Purpose: To replace Kyle Rushing (NAVO) with a new co-chair from the existing members.

Priority: M

OPR: WG/OD (Conventional)

Suspense: At the next COPC.

Status as of 30 March 2017: Recommend Closing.

- **CSAB 01 December 2016:** No update.
- **CSAB 19 January 2017:** Being worked by the WG/OD. If no advancement by the CSAB F2F we will request COPC's input.

- **CSAB 16 February 2017:** No update.
- **CSAB 30 March 2017:** Eric Wise will be the new Co-Chair. Recommend closure.

Other COPC Action Items Status

COPC Action Item 2016-1.2: Request an interim solution of distributing the H8 data from NCEP across the COPC Network circuits.

Purpose: To improve the IA posture, utilize the increased Navy bandwidths, and provide a more reliable data exchange.

Priority: H

Advocate: CSAB

Suspense: At the next COPC (Fall 2016).

Status as of 30 March 2017: Recommend Closing.

- **CSAB 16 June 2016:** The level of effort to serve Himawari 8 data is not as simple as first hoped. (1. Processing code would need to be modified to keep a longer archive so that data could be retrieved. At this time the raw data is removed after processed. 2. NCEP would need to generate ftps user accounts. 3. Network changes would need to be made.) All is doable, but due to the TG migration NCEP doesn't have the resources at this time. Unless resources open up, this isn't likely until the end of this year. CSAB will re-evaluate the effort/timing to see if it merits the effort compared to PDA severing H8 data.
- **CSAB 14 July 2016:** NCEP doesn't have the resources at this time.
- **CSAB 18 August 2016:** NCEP doesn't have the resources at this time.
- **CSAB 15 September 2016:** With the delay of H8 on PDA pushed back to FY18 at the earliest, the OPCs are still very interested in getting this data via NCO servers over the COPC Network. CSAB recommends keeping this action open.
- **COPC 26 October 2016:** CSAB will look to implement in early 2017 once both IDPs are fully operational. COPC confirms keeping this action open.
- **CSAB 01 December 2016:** No status change, still waiting to complete the IDP transition in Boulder.
- **CSAB 19 January 2017:** NCEP is moving forward with this process, they will request FTP account information from both FNMOC and NAVO. Looking for a completion by late March and this should be available via both College Park and Boulder. HOWEVER, NOAA STAR is still a single point of failure and best effort until operational via PDA.
- **CSAB 16 February 2017:** NCEP has sent out the request for FTP account information from both FNMOC and NAVO.
- **CSAB 30 March 2017:** NCEP has completed the server interface for College Park and Boulder, is now using this connection internally, and is ready to share the data to DOD across the COPC Network. [NAVO and FNMOC will receive the 16 channels from NCEP. 557 will not be requesting H8 from NCEP at this time.] CSAB recommends closure.

COPC Action Item 2016-1.3: OPCs to receive the H8 data operationally from PDA.

Purpose: To have operational support (24x7) of the data feed that is used to create OPC mission critical products. (Himawari 8 data is anticipated to be available on PDA in the summer of 2017).

Priority: M

Advocate: CSAB

Suspense: Update at the next COPC (Fall 2016).

Status as of 30 March 2017: Open.

- **CSAB 16 June 2016:** (Chris Sisko via email.) No official timeline from the development organization regarding transition of H8 data from STAR to OSPO (operations) systems, so that is still TBD at this moment. There is an active team working on H8 transition plans, but the PDA requirement to process/distribute H8 data still remains in a deferred state. Chris will continue to ask them for a solid schedule.
- **CSAB 14 July 2016:** No official timeline.
- **CSAB 18 August 2016:** No official timeline.
- **CSAB 15 September 2016:** NOAA's development effort required to move H8 product processing into full operations at OSPO (NSOF) has been pushed back until FY18 at the earliest, due to funding availability. CSAB recommends keeping this action open.
- **COPC 26 October 2016:** COPC confirms keeping this action open.
- **CSAB 01 December 2016:** No status change.
- **CSAB 19 January 2017:** No status change.
- **CSAB 16 February 2017:** No status change.
- **CSAB 30 March 2017:** NOAA's operational support at OSPO (NSOF) has been pushed back until FY18 at the earliest due to funding availability. [NWS, FNMOC, and NAVO all look forward to full operational support of H8 data via PDA.] Recommend keeping this action open.

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 both Navy OPCs.

Purpose: To make sure the NIPRNet Federated Gateway does not introduce data latency that causes the short life environmental data to miss the necessary timing for incorporation into the OPC's NWP capabilities.

Priority: L

Advocate: CCM

Suspense: At the next COPC (Spring 2016).

Status as of 30 March 2017: Open.

- **CSAB 15 January 2015:** No update.
- **CSAB 19 February 2015:** No update.
- **CSAB 8 April 2015:** CCM needs the 2nd connection in place to allow testing. At the CSAB meeting there was concern about testing with realistic capacity from other services on the NFG (like VOIP, video conferencing, streaming..).
- **CSAB 7 May 2015:** No update.
- **COPC 28 May 2015:** COPC confirmed keeping this open.
- **CSAB 09 July 2015:** No update.
- **CSAB 19 August 2015:** No update.
- **CSAB 17 September 2015:** No update.
- **CSAB 07 October 2015:** (Part of Decision Point 2 from the CCM process flow chart). Still working to establish a NFG connection. CCM recommends keeping this action open.
- **COPC 05 November 2015:** COPC confirmed keeping this action open.
- **CSAB 03 December 2015:** Added the purpose and changed the suspense.
- **CSAB 21 January 2016:** No update.
- **CSAB 18 February 2016:** No update.
- **CSAB 07 April 2016:** 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). CCM recommends keeping this action open.

- **COPC 04 May 2016:** Approved. DISA requested that the OPC provide representative test data as soon as possible for running through the security tools at the MPG (NFG).
- **CSAB 16 June 2016:** CCM will use the new Boulder/Buckley circuit because there is a 400MB non-used bandwidth section and it can be tested without impacting the operation circuit in Suitland. So AF needs to submit the TR for a MPG connection from Buckley to San Antonio because they are the original circuit requester. 557 is working this through ACC.
- **CSAB 14 July 2016:** ACC/A6 Circuit Management cleared the path for 557 to submit the TSR. Opened a project with 557WW/C2 planning to start.
- **CSAB 18 August 2016:** No update.
- **CSAB 15 September 2016:** CCM Engineering Test Plan will be complex and is under initial development. The related JFHQ released JFHQ-DODIN TASKORD 16-0101, for the establishment of the NFG/MPG. AF has submitted the TSR for alternate path (Boulder to San Antonio) NFG connection. CCM recommends keeping this action item open.
- **COPC 26 October 2016:** COPC confirms keeping this action open.
- **CSAB 01 December 2016:** No updates.
- **CSAB 19 January 2017:** Working to see if a 4th fiber line is available in Suitland and additionally working to get the TSR for Boulder to San Antonio MPG/NFG.
- **CSAB 16 February 2017:** DISA is working on upgrades and will not support operational data exchange until after Aug. NESDIS/NCEP still looking for a short-term solution for a for 4th fiber line. NAVO proposed a possible solution of sending their operational data through Boulder and then using their exiting fiber in Suitland for MPG testing. 557 is working to get the TSR re-submitted for Boulder to San Antonio MPG/NFG.
- **CSAB 30 March 2017:** No new information on this action from CCM. Related: WG/OD and CSAB working to get a baseline time transfer between NAVO/NESDIS and NAVO/FNMOC and then the same process would be used to evaluate through JRSS and MPG/NFG. CCM recommends keeping this action item open.

COPC Action Item 2013-1.9: Review and update the Federal Plan for Cooperative Support and Backup Among Operational Processing Centers (FCM-P14-2012).

Purpose: Documents an interagency coordinated approach to backup support and cooperative sharing of data, technology, and products among the national major meteorology, oceanography, and satellite operational processing centers (OPC) to assist in fulfilling their mission requirements.

Priority: L

Advocate: CSAB

Suspense: At the next COPC (Spring 2016).

Status as of 30 March 2017: Open.

- **CSAB 15 January 2015:** Jim V will submit his changes to Ken B.
- **CSAB 19 February 2015:** No update, Ken B. needs to incorporate FNMOC changes and make changes to the communications network section.
- **CSAB 8 April 2015:** Jim V. and Ken S. will work to incorporate COOP plans between FNMOC and the 557th. Once updated, check with A3W about whether a COOP MOA is necessary or can the P14 stand in for the ATO.
- **CSAB 7 May 2015:** Ken B. needs to incorporate the FNMOC updates and the networking changes. CSAB needs to make changes based on the AF and NWS reorganizations. FNMOC and the 557 WW in discussion to add specific COOP capabilities with the document. CSAB recommends keeping this action open.

- **COPC 28 May 2015:** COPC confirmed keeping this open.
- **CSAB 09 July 2015:** No update.
- **CSAB 19 August 2015:** Needs to be totally looked over to address the organizational changes.
- **CSAB 17 September 2015:** Ken B will make a 1st draft for the CSAB F2F.
- **CSAB 07 October 2015:** OFCM needs to incorporate all updates and the networking changes. CSAB will then coordinate/review based on recent reorganizations (557WW, IDFOR, NWS, and NESDIS (OSGS)). Recommend keeping this action open.
- **COPC 05 November 2015:** COPC confirmed keeping this action open.
- **CSAB 03 December 2015:** Added the purpose and changed the suspense.
- **CSAB 21 January 2016:** No update.
- **CSAB 18 February 2016:** No update.
- **CSAB 07 April 2016:** OFCM and CCM are updating the COPC network section. OPCs are reviewing the document to update the organizational changes. CSAB recommends keeping this action open.
- **COPC 04 May 2016:** COPC approved.
- **CSAB 16 June 2016:** Ken needs to update the communications section and get it reviewed by CCM.
- **CSAB 14 July 2016:** Ken recommended removing the communications graphic and doing a separate annex for the NetOps CONOPS of the COPC network. This will be a stay alone document but references will be added to both about the other.
- **CSAB 18 August 2016:** Ken recommended removing the communications graphic and doing a separate annex for the NetOps CONOPS of the COPC network. This will be a stay alone document but references will be added to both about the other.
- **CSAB 15 September 2016:** The OPCs' submissions almost complete and CSAB will meet after COPC to resolve a couple of issues. Additionally, CSAB will request a document name change replacing Backup with Outage Mitigation and plan to publish in Jan 2017. CSAB recommends keeping this action open.
- **COPC 26 October 2016:** CSAB looks to finalize before the next COPC meeting. COPC confirms keeping this action open.
- **CSAB 01 December 2016:** Still need FNMOC's input and then CNMOC's review.
- **CSAB 19 January 2017:** FNMOC is working on their update. All other inputs have been combined into one file and Ken is working through resolving them.
- **CSAB 16 February 2017:** No update.
- **CSAB 30 March 2017:** OPCs' submission now complete. Document name change to the Federal Plan for Cooperative Support and Outage Mitigation Among Operational Processing Centers (FCM-P14-2017) and will reference a new annex [Annex 1 – Network Operations (NETOPS) Concept of Operations (CONOPS) for the Operational Processing Centers (OPC) – still in draft form.] Look to complete the CSAB review by June/July timeframe. CSAB recommends keeping this action open.

COPC Action Item 2012-2.7: Each OPC to provide anticipated GOES-R implementation strategy; expressly addressing data receipt mechanism/methodology and impacts to processing infrastructure.

Purpose: To understand how each OPC will receive the important new satellite data.

Priority: L

Advocate: CSAB

Suspense: At the next COPC (Spring 2016).

Status as of 30 March 2017: Recommend Closing.

- **CSAB 15 January 2015:** From AMS – launch March 2016 and operations March 2017. NAVO has requested FY15 funding for new equipment from PMW120 via the acquisitions arm in PMW170.
- **CSAB 19 February 2015:** All DOD sites are still working to have downlink capabilities.
- **CSAB 8 April 2015:** Bullet from each DOD Center for a slide on the CSAB to COPC briefing. Cover any comments during the transition (3rd antenna) and any COOP scenarios.
- **CSAB 7 May 2015:** Air Force will modify existing GOES infrastructure at Offutt AFB for direct readout. NAVO and FNMOC are continuing to pursue GOES-R Direct Read-out capability, using the Navy ESRP Program. (Plan to use PDA delivery until DRO capability is established.) CSAB recommends keeping this action open.
- **COPC 28 May 2015:** COPC confirmed keeping this open.
- **CSAB 09 July 2015:** No update.
- **CSAB 19 August 2015:** No update.
- **CSAB 17 September 2015:** Each Center will submit their update for a combined slide or two within the CSAB briefing. Ken B will send out the slides used last COPC. Keith will work to get a date of launch, but right now no sooner than Oct 2016.
- **CSAB 07 October 2015:** GOES-R is scheduled to launch in Fall 2016. Air Force will modify existing GOES infrastructure at Offutt AFB for direct readout. NAVO and FNMOC are continuing to pursue GOES-R Direct Read-out capability, using the Navy ESRP Program (POM18 planning). Via the GRB/H8RB project, NCEP Centers (NCWCP, SPC, NHC, AWC, SWPC) will be receiving antenna dishes in support of operational data feeds. Dishes will also be installed in AK, HI, and Guam. CSAB recommends keeping this action open.
- **COPC 05 November 2015:** COPC confirmed keeping this action open.
- **CSAB 03 December 2015:** Added the purpose and changed the suspense.
- **CSAB 21 January 2016:** GOES-R still scheduled to launch on October 14, 2016.
- **CSAB 18 February 2016:** CSAB will update the slide to present to COPC.
- **CSAB 07 April 2016:** GOES-R is scheduled to launch in Oct 14, 2016. AF is working on contracts for DRO receipt, processing, and assimilation of GOES-R at Offutt AFB. NAVO and FNMOC are continuing to pursue GOES-R Direct Read-out capability, using the Navy ESRP Program and plan to use PDA “Operational” delivery until DRO capability is established. CSAB recommends keeping this action open.
- **COPC 04 May 2016:** COPC approved. However, OSGS expressed concern about the 2 Navy OPCs getting their GOES-R data from the PDA.
- **CSAB 16 June 2016:** OSGS concerns were addressed by both FNMOC and NAVO. [Both OPCs showed the history of the intent to use PDA until they own capability was achieved, the work already conducted by the PDA staff working with the Navy, and that neither OPC will request all 16 channels at each refresh point]. The official launch date is no earlier than Nov 4th. CSAB will have to create a separate briefing discussing each OPC’s effort [AF with DRO capability, FNMOC with NRL and NOAAPort...]
- **CSAB 14 July 2016:** OPCs should provide input for a briefing at CSAB and COPC.
- **CSAB 18 August 2016:** OPCs should provide input for a briefing at CSAB and COPC.
- **CSAB 15 September 2016:** Air Force working contracts for DRO receipt. NAVO and FNMOC are continuing to pursue GOES-R Direct Read-out capability, but plan to use PDA “Operational” delivery until DRO capability is established. CSAB recommends keeping this action open.
- **COPC 26 October 2016:** COPC confirms keeping this action open.

- **CSAB 01 December 2016:** GOES-R was launched and is now renamed GOES-16. 557 still installing their own readout capability and for now, Navy will retrieve via PDA when it is available.
 - **CSAB 19 January 2017:** NESDIS is working to make GOES-16 beta data available for PDA internal testing in late Feb or early Mar. Both NAVO and FNMOC will look to receive GOES-16 data from PDA when it is cleared for mission partner's use. NCEP will get level 2 products from PDA. 557 will use their own readout capability when it is available.
 - **CSAB 16 February 2017:** NESDIS secured approval to allow FNMOC and NAVO access to non-operational GOES-16 data for implementing internal testing. NCEP will get level 2 products from PDA. 557 still working to have their own readout capability.
 - **CSAB 30 March 2017:** Air Force modified two existing GOES antenna at Offutt and installed GOES-R configured MARK IVB server hardware. NAVO and FNMOC Plan to use PDA "Operational" delivery until Direct Read-out capability is established through the Navy ESRP Program. CSAB recommends closing this action.
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Note: With the older Action Items, previous year updates have been made into hidden text. The information is still there and can be viewed/printed by toggling the hidden text option.