

Understanding the Current COPC Network Data Transfer Times

**Spring 2017 COPC Meeting
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COPC Action Item

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.

- Too difficult to measure per data type.
- NAVO has developed a testing file and tested sending this file to NESDIS and FNMOC.

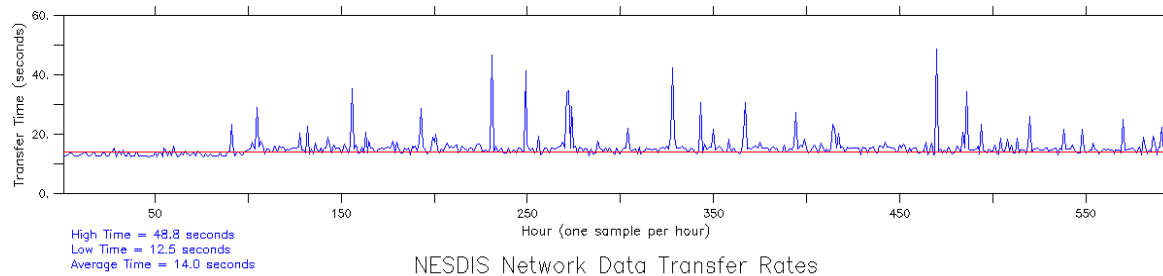
NAVO Testing Details

NAVO is verifying transfer rates of NAVO to NESDIS/OSPO, as well as NAVO to FNMOC

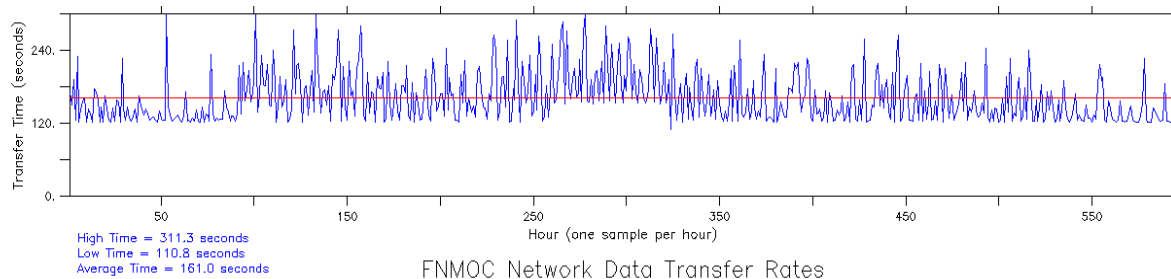
- Actively generated 100MB binary file
- File transferred once/hour

FEMNET 14x4000
NESDIS/FMEL 194P
20-NOV-2017 19:27:07
DATA SET: nesdis.tmp1

NAVO -> NESDIS
~14.0sec avg/xtime



NAVO -> FNMOC
~162.0sec avg/xtime



Recommended Way Forward

- The reverse path testing:
 - NESDIS is still pending approval of the Work Request (WR).
 - WR covers similar testing with 557th and FNMOC.
 - FNMOC waiting until the “hard iron” server is in place replacing the current virtual DMZ server.
 - Will give a more accurate baseline for future comparisons.
- NESDIS/NAVO exchange should create a good baseline on the current point to point network and before MPG/NFG.
- FNMOC/NAVO exchange should create a good baseline on the current network connection and before JRSS is implemented.
- Same process would then be used to evaluate through JRSS and MPG/NFG.