



The Future of Network Message Distribution



Network Support Group Meeting

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Background



- ❑ **Network messages are primarily generated and/or distributed using two GSFC systems.**
 - **Comprehensive Discrepancy System (CDS)**
 - ◆ Widely used for documenting and tracking of mission/Networks support issues via Discrepancy Reports (DRs).
 - ◆ Also used for other notifications/reports/tracking (TARS, RCCAs, etc).
 - ◆ CDS can generate and deliver some, but not all, Network messages via the GCC.
 - **Goddard Communication Center (GCC)**
 - ◆ The primary system in the GCC is the Automatic Message Distribution System (AMDS).
 - ◆ The AMDS receives and distribute messages between NASA, DoD, and other government agencies. (TLEs, BMs, ISIs, B3 tracking data, etc).
 - ◆ Most GCC-processed messages are orbital element messages (e.g. TLEs) that originate from USSTRATCOM.
 - ◆ Network elements can deliver messages via GCC by sending directly to the GCC/AMDS, which then distributes the message to the correct recipients.



Background (Cont'd)



- **At start of the SCNS contract, NIMO Management directed CDS personnel to remove dependency on the GCC for delivery of Networks' message traffic by October 1, 2012.**
 - **GCC transitioning to FDF control on October 01, 2012.**
 - **CDS is neither NASA-mission nor GSFC funded and is not an institutional tool.**
 - ◆ **CDS is fully funded by the Networks (SN and NEN).**
 - **Desire to make CDS a compact, Networks-centric system.**
 - ◆ **Only SN and NEN elements will be allowed use of CDS for Network's operations message traffic.**
 - ◆ **Other projects (LDCM, JPSS, etc) will no longer have authorization to use CDS.**
 - **Opportunity to update and modernize CDS.**
 - ◆ **SCNS CDS System Administrator/Remedy Architect is taking this opportunity to clean up and streamline CDS's architecture.**
 - ◆ **Two new CDS servers have been procured and are currently being configured and tested for operations. Expect to be operational in late May.**
 - **Successful CDS PDR held on March 30, 2012.**



CDS Message Types



□ **CDS is being modified to generate and deliver all current message types created by Networks operations personnel in the proper format, including:**

- Briefing Messages (BM)
- Operations Message (OPN)
- STDN Daily Report (SDR)
- Freeze exemption Request (FER)
- Mission Activity Forecast (MAF)
- Space Network Schedule Requests (SR)
- Ground Network or Near Earth Networks (NEN) Schedule Requests (SR)
- GN Status messages (GNSTAT)
- Tape Hold Request (THR)
- Service Specification Codes (SSC's)
- Database Change Request (DBCR)
- Network Advisory Message (NAM)*
- Interim Support Instructions (ISI)*
- Discrepancy Report (DR)*
- Root Cause/Corrective Action (RCCA)*
- Test Analysis Retrieval System (TARS)*
- Space Network Directive (SND)*

Note -Items highlighted with an asterisk () are items that currently can be created within CDS.*



The 'New' CDS



- ❑ **Preliminary Design was oriented toward Briefing Messages (BM)**
- ❑ **Next phase will address all other CDS applications/message types**
 - Similar software engine will be used for all messages/applications
- ❑ **Eliminate Dependency on GCC**
 - Email delivery of all messages
- ❑ **Single Repository for Listserv's/Recipient lists**
 - List Owners (SMMs, NOMs, etc) will have direct control over recipient distribution lists
 - Ability to delivery to multiple distribution lists
 - Individual recipients may also be added/removed individually prior to message delivery
- ❑ **Standardization of Message Formats**
 - Use of message templates should eliminate formatting issues
 - WYSIWYG on-the-fly editing capability
 - Ability to view draft in proper format prior to sending



The 'New' CDS



- Allow Seamless Distribution of Attachments**
 - Ability to open/review attachments prior to sending
- Retrievable Archive of Products**
 - Ability to retrieve previous messages using multiple search criteria (i.e., mission name, ISI number, etc.)
- One button Corrected Copy capability**
 - All previous CC's are automatically archived
- Day Time Group is integrated into the entire system**
- Entire system is GMT-based**
- All users must be active in IdMAX to have a CDS account.**
 - **Required for both current CDS and the new CDS**



CDS Development Schedule

