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# WSC Database Protocol



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# Presentation Overview



- 
- **Space Network Access System (SNAS) and Network Control Center Data System (NCCDS)**
  - **Database Change Request (DBCR) Process**
  - **Process Improvement**
  - **Conclusion/Open Discussion**



# SNAS and NCCDS – The Interaction



- **Customer changes via SNAS client:**
  - **Only updates the selected SNAS database**
    - Operational
    - Engineering Interface (EIF) – used for customer testing
    - Goddard Space Flight Center (GSFC) Beta – used for SNAS software testing
  - **White Sands Complex (WSC) Database Manager (DBM)**
    - Approves ALL SNAS changes

➤ **Changes made via SNAS will not be usable until transitioned to NCCDS**



# DSMC OIP



- **Data Services Management Center (DSMC) Operations Interface procedures (OIP) (450-OIP-WSC/DSMC)**
  - **Outlines the SN/Customer interfaces**
  - **Database procedures and interfaces – Section 10**
- **SN Database (SNDB) includes all or portions of the following databases**
  - **Space Network Assess System (SNAS)**
  - **Network Control Center Data System (NCCDS)**
  - **Services Planning Segment (SPSR)**
  - **Communications and Control Segment (CCS)**
  - **NCCDS Protocol Gateway (NPG)**



# DSMC OIP – Current Layout



- **Database positions**
  - SN Database Manager (DBM) – Mike Miller
  - Database Administrators (DBAs) – Mike Miller
  - Database Coordinators (DBC's) – MOC Manager
- **DBCR Established Timeframes**
  - New Customer Setup: 10 full working days minimum
  - Routine Database Changes: 5 full working days
  - Excludes real-time testing – completed as soon as practical

➤ **Exceeding customer expectations is the goal... customer planning is the key**



# Current Problems



- 
- **Lack of understanding the DBCR process**
  - **Lack of understanding DBCR form content**



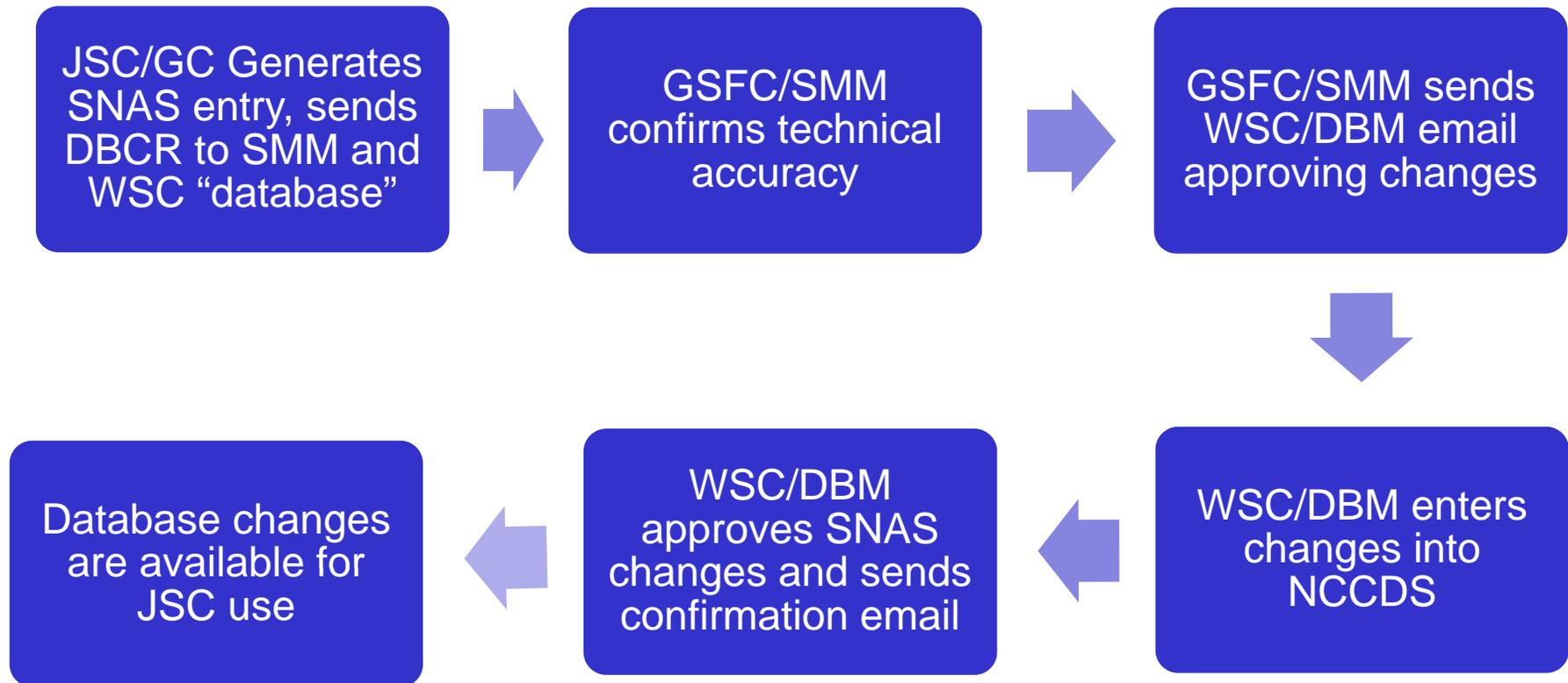
## Short Term Process Improvements



- **Johnson Space Center (JSC)/Ground Controller (GC) will enter changes into SNAS and transmit DBCR to WSC and GSFC**
- **GSFC/Spaceflight Mission Manager (SMM) will be the interface for Human Space Flight (HSF) DBCRs**
  - **SMMs will ensure technical accuracy of a submitted DBCR**
  - **SMMs will transmit approved DBCR to WSC DBM**
  - **WSC DBM will enter approved changes into NCCDS and approves SNAS changes**
  - **DBM will send a confirmation email to GSFC and JSC**
- **WSC will work to develop a user friendly/standardized DBCR form**



# Short Term DBCR Process Flow





# Long Term Process Improvements



- **Long term process improvements**
  - **WSC will update Section 10 of DSMC OIP**
  - **Enhance SNAS to incorporate the project's RFICD**
  - **Enable DBCR generation via the SNAS interface**



## Conclusion



- 
- **Ensure better communication between GSFC, WSC and JSC**
  - **Create a better customer service experience**



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# Open Discussion