

Build 20 Information

This is a presentation on the changes in build 20.

Software/Mod note numbers

- RPG will be installed per **Software Note 172**
- RDA will be installed per **Mod Note 224**
 - This mod note includes replacing the *RDA Router*
 - There are no new cables but there are new labels
 - The GPS unit is disabled and the RADAR will get it's time from NL2 servers via the RPGB
 - A separate/future Mod Note will actually remove of the GPS unit

Order of installation

The RPG software must be installed before the RDA

- The RDA Router is replaced BEFORE the software is installed and hardware is configured
- In Build 20 the RDA will no longer use the GPS unit as a time source
- The RDA will get time from the RPG which will get time from the National Level 2 (NL2) servers
- **If RDA Build 20 is installed before RPG Build 20, the RDA will not have a valid time source!**

RDA Alarm Changes

Added:

- Secondary/Occurrence/Pedestal Alarm #252 - EBC TOO MANY MAX CORRECTIONS USED
 - When EBC is enabled and max correction (3 BAMS) is applied, this new secondary alarm sets
 - Elevation Bias Correction (EBC) Control. The EBC function is a method which averages the elevation angles and rotation rates between VCP cuts, if there are slight differences, and applies the correction to the next VCP cut.

Changed:

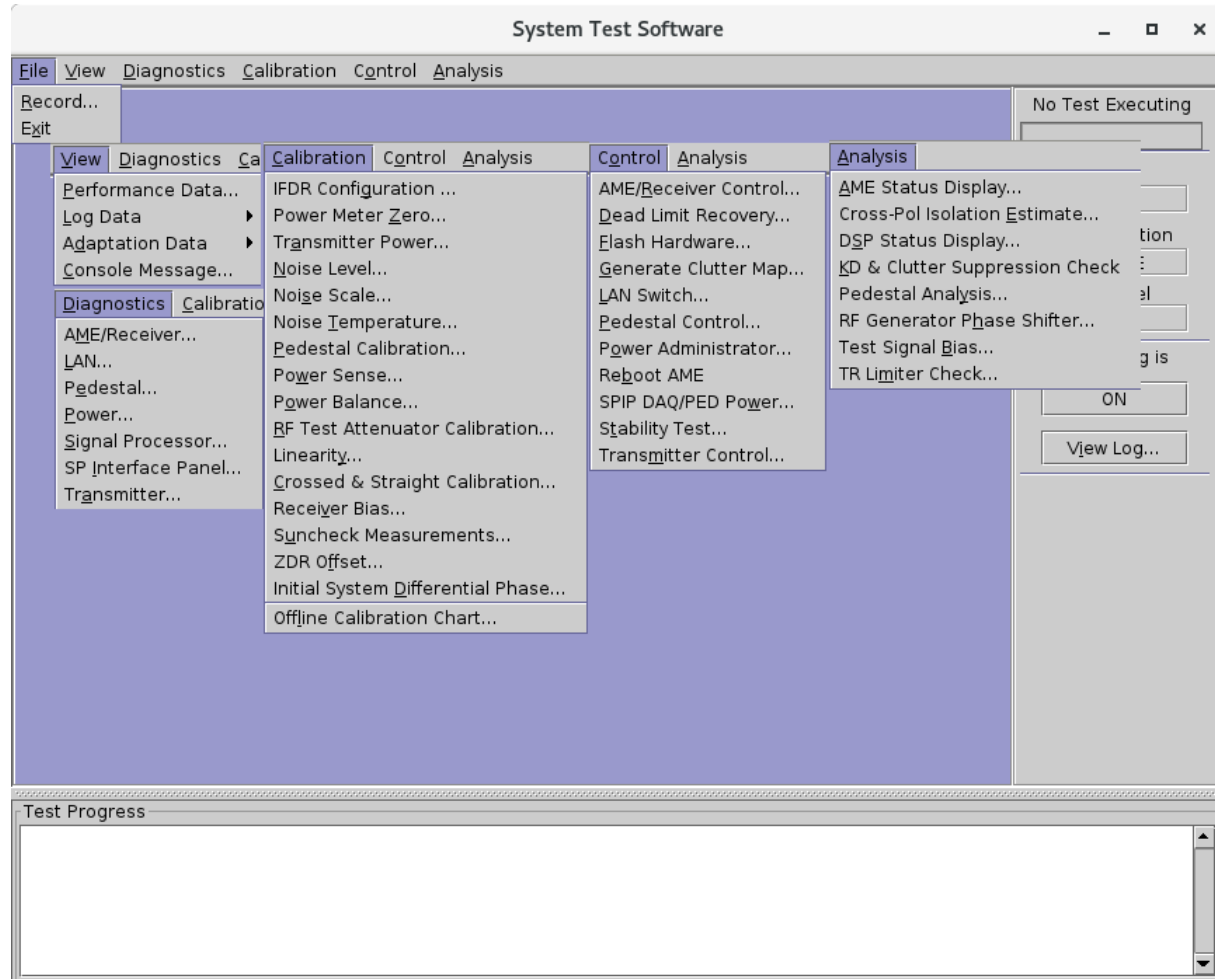
- The CUT TRANSITION TIMEOUT Alarm #698 now clears if the channel becomes the non-controlling channel

STS Changes

Menu items rearranged and mostly alphabetized.

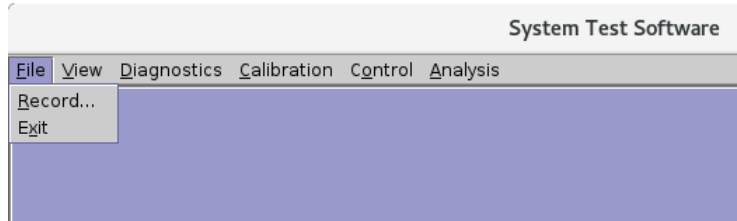
Some items on the Calibration and Control menus were moved to a new Analysis menu.

A couple of items were removed all together.



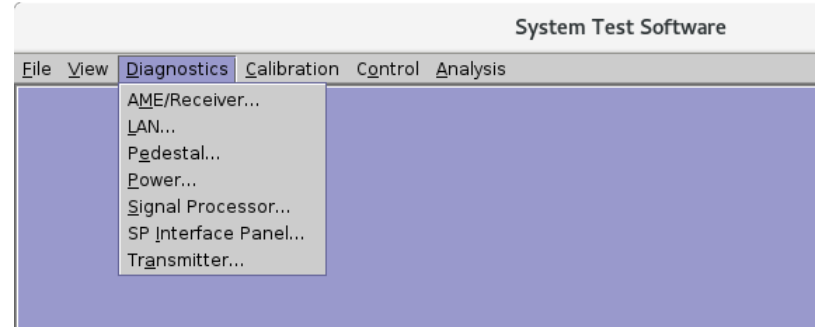
File & View

No change



Diagnostics

Menu alphabetized



Calibration

“KD & Clutter Suppression Check” moved to Analysis

“RF Generator Phase Shifter” moved to Analysis

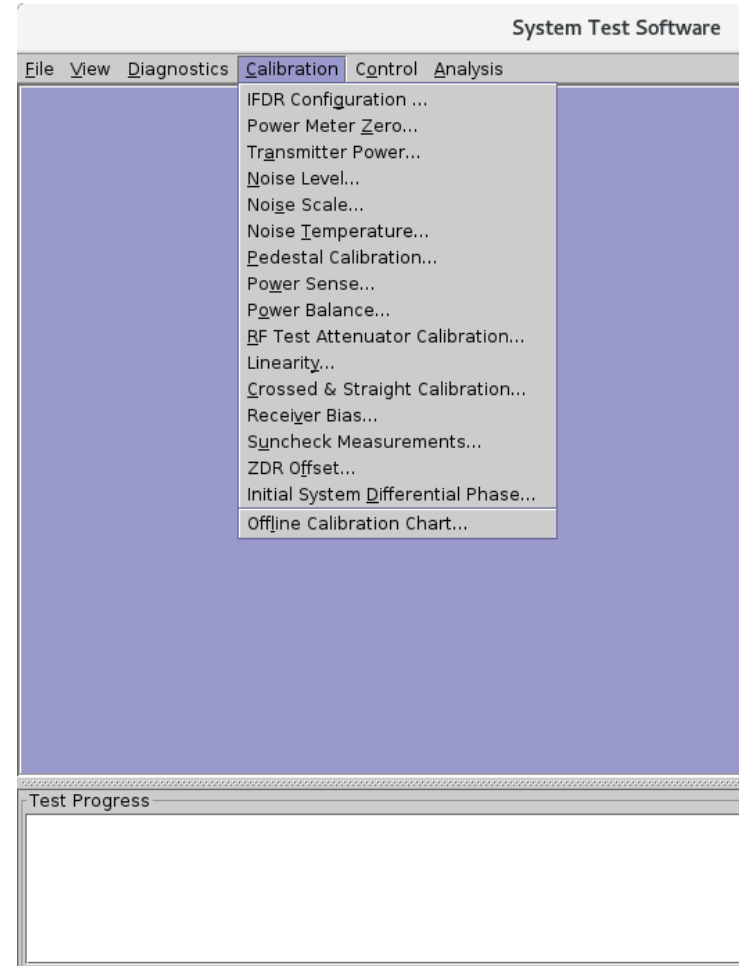
“TR Limiter Check” moved to Analysis

“Cross-Pol Isolation Estimate” moved to Analysis

“Test Signal Bias” moved to Analysis

“Complex Spectrum” moved into AME/Receiver Control test

“Power Isolation” has been removed from STS



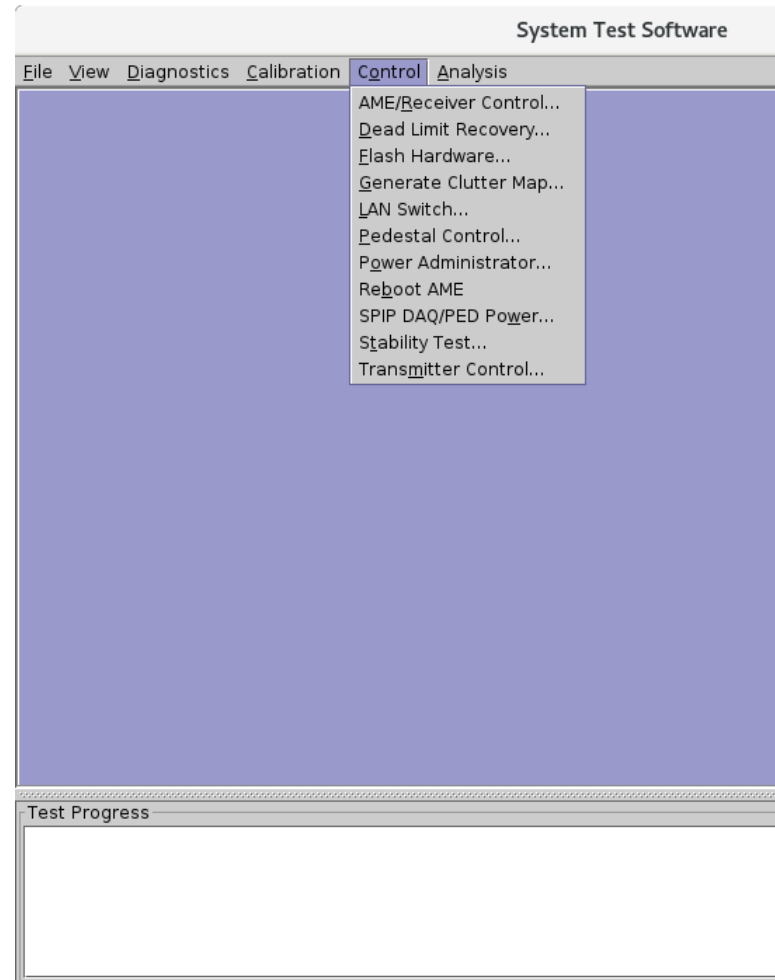
Control

“Pedestal Analysis” moved to Analysis

“AME Status Display” moved to Analysis

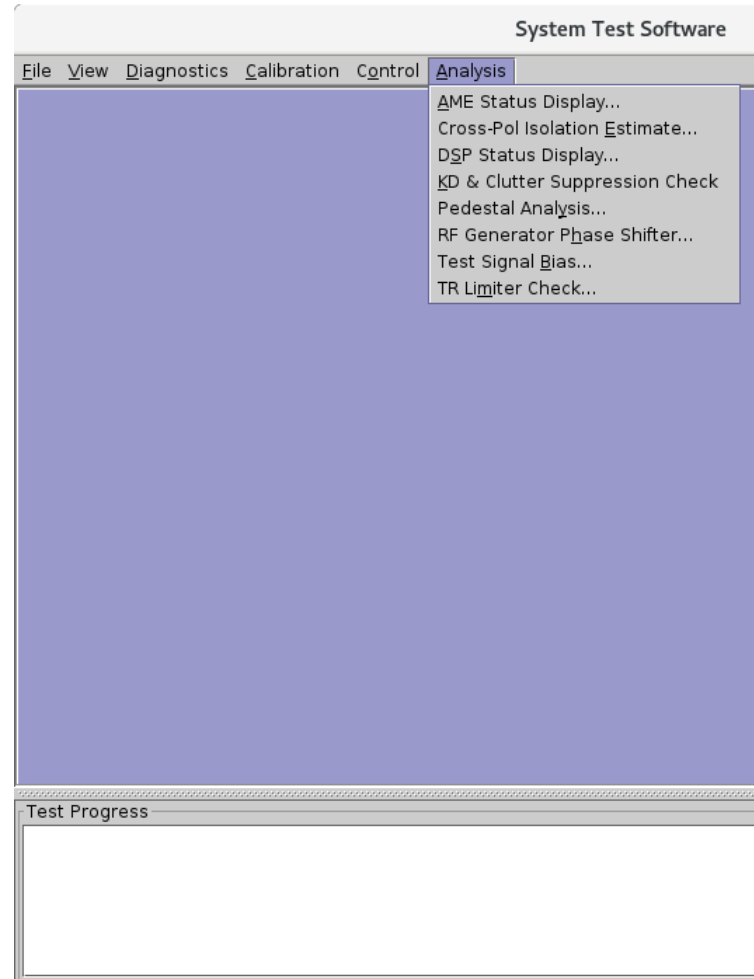
“DSP Status Display” moved to new Analysis

Menu alphabetized



Analysis

- Clutter Suppression Test added Vertical channel to test.
- This is new menu that many STS programs have moved into



Crossed & Straight Calibration

If consistency check is out of tolerance (greater than .10dB) between crossed and straight, STS will display the output calculations with the exception of R297 and R298 to better guide the technician in troubleshooting efforts.

Misc RDA Changes

- Turn RDA Elevation Bias Correction (EBC) On By Default
 - The EBC function is a method which averages the elevation angles and rotation rates between VCP cuts, if there are slight differences, and applies the correction to the next VCP cut.
- The radarop and RDA HCI/orda passwords will now expire in 60 days versus 90 days

RPG Changes

- Improved Accuracy of ZDR Bias Estimates from Light Rain
- The System Console menu item (located under **Applications** → **Favorites** or **Applications** → **System Tools**) now opens a root terminal using the command **su -** instead of just **su**
- **The Linux user account passwords will now expire in 60 days** versus 90 days
- Update IOS on network devices
- RPG LAN Switch port 24 will be administratively shutdown
- An RPG software restart will now always clear any task failure or control task failure alarms

LDM/Level 2 Changes

- National Level 2 (NL2) servers will be used as a time source for RPGA/B, MSCF, & RDA
- The Archive II GUI now has options to **Restart** or **Reinitialize**
 - The **Restart** option will restart the ldm task on RPGA & RPGB
 - The **Reinitialize** option will stop ldm, delete & recreate the ldm queue, and then restart ldm on RPGA & RPGB
 - This should eliminate “reboot RPGB then RPGA” when there are Level 2 data flow issues

