

Title: Baseline RT Scheduling**Objectives:**

- Verify System Logon
- Verify use of Automatic Scheduling using Absolute & Relative Boundaries
- Verify receipt and validation of:
 - ⇒ Schedule Add Requests
 - ⇒ Schedule Delete Requests
 - ⇒ SLRs
 - ⇒ Premium Schedule Requests
- Verify Operator Actions and Local Schedule Maintenance Activities to include:
 - Review Events
 - Adding an Event
 - Deleting an Event
 - Scheduling S0200PMs
 - Use of Prototype Events (PEs) and service specification codes (SSCs)
 - GAM transmission
- Verify schedule transmissions:
 - To POCC
 - To SN elements
- Verify Alert Response and Alert Periods
- Verify TUT activities
- Execute delog reports using the NCCDS Central Delogger (NCD)
- Characterize effectiveness, usability, and timeliness of new SPSR tools
- Train SO and fill out skills catalogs and Training Event Reports (TERs)
- Document Verification

Configuration:

As shown in Figure 1, the system will be configured in the shadow mode for the entire test to allow receipt of external messages (99/10s & 99/11s from the POCCs and 04s from the GTs) throughout the run. All operator actions resulting in system output will be directed to NTS. All scheduling will be done in the automatic mode.

Prerequisites:

- NSIA will configure system in shadow mode.
- Operator will review the SPSR User's Guide.
- All test and operator accounts are set up.
- Active Event Migration.
- Necessary STRSs for scheduling autothroughput are resident in database and have been activated.

Data Source:

Data will originate from NTS and operations via LISTENR. In NTS, block files resident in /usr/nts/ops/accpt/98scens/working/msgblk/so10.blk.

Ops Scenario: (Italicized steps are performed by NSIA, all others are performed by the operator.)

DRAFT

SCHEDULE MAINTENANCE CONTROL

1. Logon to the workstation.
2. Review current Batch Boundary and current settings of absolute and relative boundaries.
3. Verify Batch Boundary = Active Period End.
4. Review Alert Period Parameters.
5. Set the Automatic Schedule Update Alert Period to the current day.

EXTERNAL RECEIPT AND VALIDATION

6. Create and activate STRSs for all destinations.
7. Review Scheduled Events.
8. Shadow receipt of active period:
 - ⇒ SARs
 - ⇒ SDRs
9. *Verify appropriate system response to include transmission of:*
 - ⇒ SRMs
 - ⇒ USMs
 - ⇒ NESs
 - ⇒ NECs
 - ⇒ SHOs
 - ⇒ *Cancel SHOS*
10. Verify that an alert is generated for every request received for current day.
11. *Generate and Transmit an SLR from NTS.*
12. Review the SLR Summary and Details and Affected SHOs.
13. Perform conflict resolution to remove or reschedule affected SHOs.
14. *From NTS, transmit invalid SARs and SDRs to produce the following rejects:*
 - Ⓟ *Request receipt time is too close to requested start time (05)*
 - Ⓟ *GT cannot support request at request start time (07)*
 - Ⓟ *Referenced event or request cannot be located (11)*
 - Ⓟ *Gap between same services is less than setup time (31)*

OPERATOR ACTIONS

15. Review Active Schedule.
16. Review services for a scheduled event.
17. Add a baseline customer event (for test day +2) to the schedule using SSCs.
18. Add the same event.
19. Verify the event rejects against itself, due to resource conflict.
20. Add a baseline customer event (for test day +2) to the schedule using PEs.
21. Delete an event.
22. Block NO USER times in accordance with OPM54s using S0200PMs or resource database displays.
23. Make an entire TDRS unavailable for scheduling.
24. Attempt to schedule an event on that TDRS.
25. Verify event does not schedule.
26. Transmit a GAM.

SCHEDULE TRANSMISSION

27. Manually transmit daily schedule to WSC.
28. *Verify GTs receive schedules.*
29. Manually transmit schedules to MOCs.
30. *Verify MOCs receive schedules.*
31. Manually transmit schedules to NASCOM/SDPF
32. *Verify schedules are transmitted and received by NTS.*

DRAFT

TUT

- 33. Review TUT Controls.
- 34. *Review current TUT information.*
- 35. Force an out-of cycle TUT generation.
- 36. Add an event.
- 37. Force an out-of cycle TUT generation.
- 38. *Review revised TUT information.*

NCD

- 39. Perform a delog to analyze all incoming SARs and SDRs received during the test.

Roles and Responsibilities:

SO:

- Observe shadowing of receipt of schedule requests and deletes.
- Complete the SO Position Log IAW Local Operating Procedures.
- Perform all Operator Actions and Schedule Maintenance Activities.
- Transmit Schedules.
- Respond to Alerts.
- Execute a delog report.
- Checkout redlined version of LOPs including, but not limited to:
 - NCC-LOP-002 OPM-59 Message Processing
 - NCC-LOP-006 OPM-54 WSC Scheduling Request Message Processing
 - SU-SO-LOP-001 Daily Review Event Logs
 - SU-SO-LOP-002 Console Position Log
 - SU-SO-LOP-003 Scheduling of TDRSS Customers
 - SU-SO-LOP-004 Communication Test Messages (CTM)
 - SU-SO-LOP-006 WSC Schedule Transmission/Retransmission
 - SU-SO-LOP-007 Shift Preparation Items
 - SU-SO-LOP-009 User Event Accountability Process
 - SU-SO-LOP-010 Scheduling S0200PMs for Blocking TDRS Resources
 - SU-SO-LOP-011 BRTS Telemetry and Tracking Data message Playbacks
 - SU-SO-LOP-012 OPM-54 Processing and Distribution
 - SU-SO-LOP-015 TDRSS BRTS Scheduling
 - SU-SO-LOP-016 Rescheduling of Events
 - SU-SO-LOP-018 Verbal GN Support
 - SU-SO-LOP-019 Playback Requests
 - SU-SO-LOP-023 Scheduling an SN S/C Emergency When TDRSS Resources Are Already Allocated

NSIA:

- One NSIA engineer required.
- Configure system.
- Perform all italicized steps in test case.
- Observe shadowing of receipt of schedule requests and deletes.
- Observe/assist SO in completion of all other steps.

DOCS:

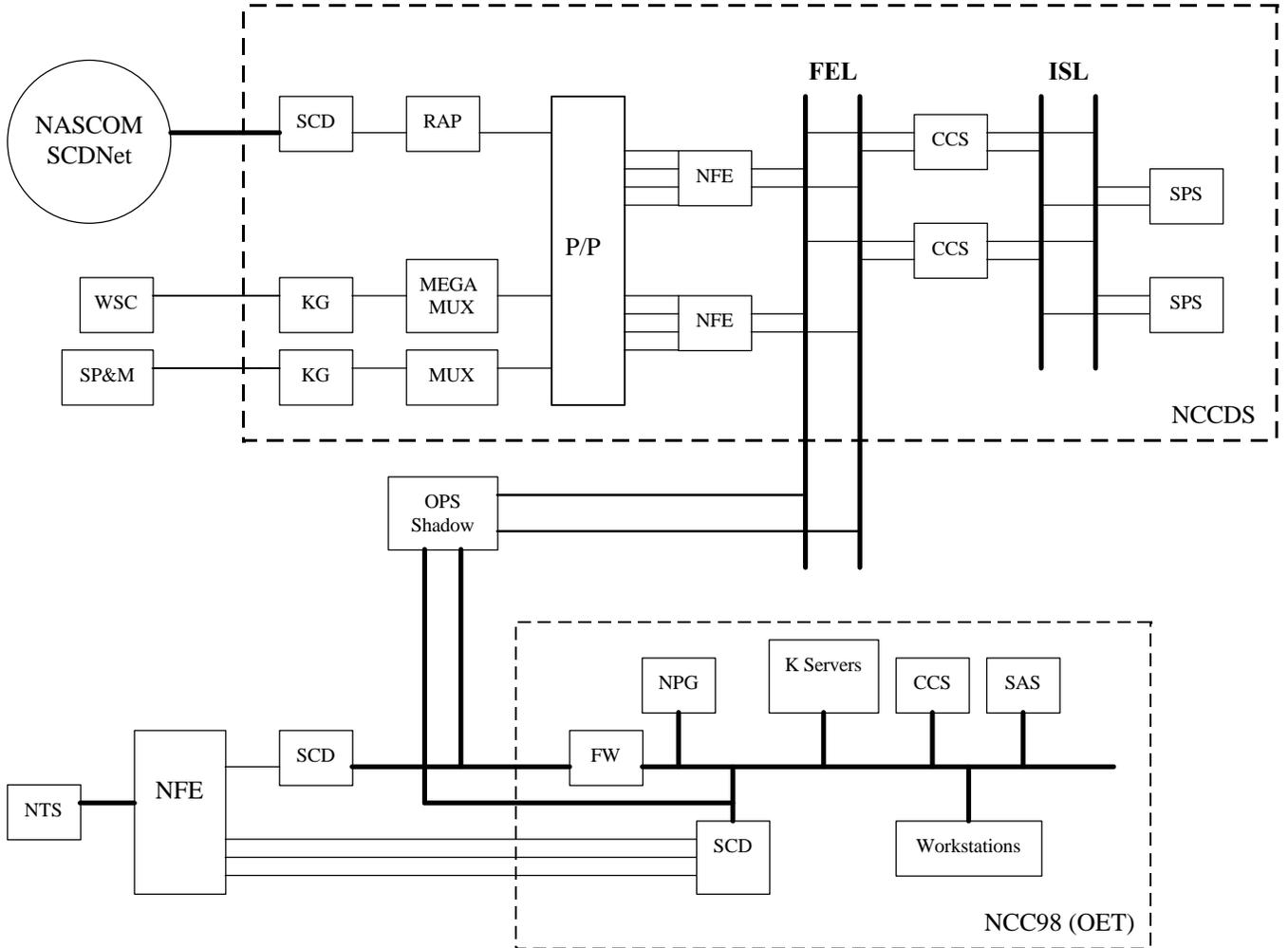
- Checkout redlined version of the following documents:
 - 532-HB-NCC/SO Scheduling Handbook (Real Time Section).
 - TBD SPSR User's Guide

DRAFT

Estimated Run Time: 8 hours

Written By: Melanie Wiedmann

Figure 1: Shadow Mode Test Configuration



Training/Ops Scenario Tracking Sheet

Enter the date of each run on the appropriate line:

| | SO-1.0: Baseline | SO-1.1: Database | SO-1.2: New Enhancements | SO-1.3: Shuttle | SO-1.4: Contingency Ops |
|-------------------|-----------------------------|-----------------------------|-------------------------------------|----------------------------|--|
| NSIA | | | | | |
| TRAINING: | | | | | |
| SO_1 | | | | | |
| SO_2 | | | | | |
| SO_3 | | | | | |
| SO_4 | | | | | |
| SO_5 | | | | | |
| FA_1 | | | | | |
| FA_2 | | | | | |
| FA_3 | | | | | |
| GNSO_1 | | | | | |
| GNSO_2 | | | | | |
| DOCUMENTATION: | | | | | |
| 532-HB-NCC/SO | | | | | |
| SPSR User's Guide | | | | | |
| NCC-LOP-002 | | | | | |
| NCC-LOP-006 | | | | | |
| SU-SO-LOP-001 | | | | | |
| SU-SO-LOP-002 | | | | | |
| SU-SO-LOP-003 | | | | | |
| SU-SO-LOP-004 | | | | | |
| SU-SO-LOP-006 | | | | | |
| SU-SO-LOP-007 | | | | | |
| SU-SO-LOP-009 | | | | | |
| SU-SO-LOP-010 | | | | | |
| SU-SO-LOP-011 | | | | | |
| SU-SO-LOP-012 | | | | | |
| SU-SO-LOP-015 | | | | | |
| SU-SO-LOP-016 | | | | | |
| SU-SO-LOP-018 | | | | | |
| SU-SO-LOP-019 | | | | | |
| SU-SO-LOP-023 | | | | | |