

NASCOM EIF

OBJECTIVES:

Verify the following Message Types/Classes:

- 90/01 NASCOM Event Schedule.
- 90/02 NASCOM Event Cancel.
- 90/04 NASCOM Event Schedule Update.
- 90/05 NASCOM Event Schedule Emergency.
- 90/06 NASCOM Reconfiguration Request.
- 90/07 NASCOM Reconfiguration Request Accept / Reject.

Verify the ability of NCCDS to transmit Bulk Schedules to NASCOM.
Verify the ability of the NCCDS to transmit Bulk Deletes to NASCOM.

PREREQUISITES:

Successful completion of SO OPS Scenario TBD.

TEST SETUP:

- Active Period
- Automatic Scheduling
- Activate STRS to NASCOM through the end of the next RAYDAY.
- Activate STRS to WSC (NTS) through the end of the next RAYDAY.
- Event Database shall be void of events through the end of the current RAYDAY.
- 500 test events are scheduled for the next RAYDAY to be used for Bulk Transmission.
- Successful completion of SO OPS Scenario TBD.
- Successful completion of CSA OPS Scenario TBD.
- Successful completion of WSC Scheduling EIF, WSC REALTIME EIF.
- TDRS-041 is assigned to SGLT1 in the NTS and the NCCDS Databases.
- TDRS-174 is assigned to SGLT2 in the NTS and the NCCDS Databases.
- M2008MS is configured to be schedulable at NASCOM.

TEST SCRIPT:

<u>STEP</u>	<u>ELEMENT</u>	<u>ACTION</u>
<i>Event Scheduling</i>		
Step 1.	NCC	NCC shall schedule Events # 1-7 as described in the TEST DATA REQUIREMENTS. A minimum of one event shall cause a NASCOM Event Schedule Emergency (90/05) to be generated.
Step 2.	NASCOM	Verifies receipt of the NASCOM Event Schedule Update (90/04) or the NASCOM Event Schedule Emergency (90/05), as applicable, for each event scheduled in Step 1 above.

Event Delete

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- Step 3. NCC Deletes Event #7 (duplicated Shuttle Event) scheduled in Step 1 above.
- Step 4. NASCOM Verifies receipt of the NASCOM Event Cancel (90/02) for the event deleted in Step 3 above.

Real-time Control

- Step 5. NCC Verify all events have become active.
- Step 6. NCC Reconfigures Event #1 changing the data rate to a new valid rate, and change the DSID to a new valid ID.
- Step 7. NASCOM Verifies receipt of the NASCOM Event Reconfiguration Request (90/06).
- Step 8. NCC Verifies the NASCOM Reconfiguration Request Accept / Reject message (90/07) received.
- Step 9. NCC Reconfigures Event #2 changing the data rate to a new invalid rate, and change the DSID to an invalid ID.
- Step 10. NASCOM Verifies receipt of the NASCOM Event Reconfiguration Request (90/06) and verifies that the NASCOM system rejects the request.
- Step 11. NCC Verifies the NASCOM Reconfiguration Request Accept / Reject message (90/07) received indicating the request was rejected by NASCOM.
- Step 12. NCC Reconfigure Event #6 (SHUTTLE) in the following manner:

MODE 1
CH1 DSID TO 021
CH 2 DATA RATE TO 1024KB
CH 2 DSID TO 022
CH 3 DATA RATE TO 48 MBS
CH 3 DSID TO 023

- Step 13. NASCOM Verifies receipt of the NASCOM Event Reconfiguration Request (90/06) and verifies that the NASCOM system ACCEPTS the request.
- Step 14. NCC Verifies the NASCOM Reconfiguration Request Accept / Reject message (90/07) received indicating the request was ACCEPTED by NASCOM.

Bulk Transmission

- Step 15. NCC Performs a bulk transmission of 500 events scheduled for the next RAYDAY.
- Step 16. NASCOM Verifies receipt of the 500 NASCOM Event Schedules (90/01).
- Step 17. NCC Deletes the 500 events transmitted in Step 8 above.
- Step 18. NASCOM Verifies receipt of the 500 NASCOM Event Cancel (90/02)

NASCOM Reject Processing

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| Step 19. | NCC | Configures STRS to inhibit transmissions to NASCOM. |
| Step 20. | NCC | Schedules Event #8 with a Start time ASAP. NCC verifies the event schedules, but no messages are transmitted to NASCOM. |
| Step 21. | NCC | At Event Start, NCC reconfigures the event. NCC verifies a NASCOM Reconfiguration Request (90/06) is transmitted to NASCOM. |
| Step 22. | NASCOM | Verifies receipt of the a NASCOM Reconfiguration Request (90/06), and verifies that the request is rejected due to the event is not resident in their system. NASCOM verifies transmission of a NASCOM Reconfiguration Request Accept / Reject (90/07) to the NCC. |
| Step 23. | NCC | Verifies receipt of the a NASCOM Reconfiguration Request Accept / Reject (90/07). |
| Step 24. | NCC | Cancels the ongoing event. |

TEST DATA REQUIREMENTS:

Events

<u>EVENT #</u>	<u>SUPIDEN</u>	<u>TDRS</u>	<u>START</u>	<u>DURATION</u>	<u>SERVICES</u>
1	A1398MS	TDRS-041	00:10:00	01:00:00	MAF / MAR
2	A4625MS	TDRS-041	00:10:00	01:00:00	SSA1F / SSA1R
3	A6581MS	TDRS-041	00:10:00	01:00:00	SSA2F / SSA2R
4	A3782MS	TDRS-174	00:10:00	01:00:00	MAF / MAR
5	A1446MS	TDRS-174	00:10:00	01:00:00	SSA1F / SSA1R
6	M2008MS	TDRS-174	00:10:00	01:00:00	SSH2F / KSH2F / SSH2R / KSH2R
7	M2008MS	TDRS-174	00:10:00	01:00:00	SSH2F / KSH2F / SSH2R / KSH2R
8	A1398MS	TDRS-041	ASAP	01:00:00	MAF / MAR

GCMRs & OTHER MESSAGES

<u>GCMR / MESSAGE</u>	<u>TYPE / CLASS</u>	<u>EVENT</u>	<u>CONSOLE / NTS</u>	<u>SPECIFIC INFORMATION</u>
Reconfiguration Request	03/03	1	CONSOLE	Return Service Data Rate Change. Values TBD. Return Service Data Stream ID Change. Values TBD.
Reconfiguration Request	03/03	2	NTS	Return Service Data Rate Change. Values TBD. Return Service Data Stream ID Change. Values Invalid.
Reconfiguration Request	03/03	6	NTS	MODE 1 CH1 DSID TO 021 CH 2 DATA RATE TO 1024KB CH 2 DSID TO 022 CH 3 DATA RATE TO 48 MBS CH 3 DSID TO 023
Reconfiguration Request	03/03	8	NTS	Return Service Data Stream ID Change. Values TBD.