



I. Reporting Periods

This report encompasses all Integrated Network events/passes supported during the following timeframe:

From: 12/06/06 0000Z

To: 12/11/06 1700Z

The attached STS-116 Daily Report has been prepared for the Network Director (ND) and is forwarded to you on a daily basis for informational purposes. The report is derived from inputs received from network tracking facilities, NIC, NISN, and FDF.

SN Support:

	Events	Support Time (as of DOY 344, 2359Z)
STS-116	39	85:03:52
Total (to date)	39	85:03:52

Events/Support Times as carried in the STDN Daily Ops Summary for 12/10/2006.

GN Support:

	Events	Total (to date)
MILA	6	6
PDL	1	1
WLPS 11M	6	6
WSSH	0	0
AGO	2	2
DFRC ATF1	5	5
DFRC ATF3	0	0

C-Band Radar Support:

	STS-116 Passes	ISS Passes
Launch/Landing	08	N/A
On-orbit	21	26
Total (to date)	29	26

AFSCN Support:

(Includes Pre-launch)	NASA Requested	AFSCN Requested
BOSS	6	None
HULA	5	None
REEF	3	None
PIKE	1	None
GUAM	3	None

\$\$ Denotes an update from last report

** Denotes an In-Flight Anomaly

LION	6	None
COOK	2	None
Total (to date)	26	None

II. Activities

- The first launch attempt at 8/0236Z (12/7 21:36 EST) was scrubbed due to weather.
- Lift-off occurred at 10/0147Z (12/09 20:47 EST)
- Supported External Tank TV via MILA, PDL, JDMTA and WPS from lift-off through LOS.
- Payload Bay Door opening occurred at 10/0317Z (9/22:17 EST)
- K-band deploy occurred 10/0330Z (9/10:30 PM EST)
- Completed Wallops ET TV image file transfer to KSC at 10/0444Z (11/23:44 EST).
- Completed ET TV image file transfers (MILA, PDL and JDMTA) to KSC at 10/0617Z (10/02:17 EST). The PDL and JDMTA transfers were from digital recorder hard drives delivered to MILA.
- RMS/OBSS TPS inspection was performed from 10/1802Z to 11/0522Z (10/13:02 to 11/00:22 EST).

III. New Problems Reported for this Period

A. Space Network (SN):

- | | | | | |
|-----------|---|----------|----------|--------|
| 1 | WSC | 10/0117Z | Launch | TDS |
| CDS 44826 | WSC reported not receiving the FDF launch support vector set (two Type 8 and a Type 1). FDF re-transmitted the vector set with the same result. A manual transmission of the Type 1 vector cleared the anomaly. The auto-throughput rule at WSC was not checked, preventing Type 1 on-orbit vectors from being auto-throughput to the stations. No impact to mission support. Operator error. Problem Closed. | | | |
| 2 | WSC | 10/0233Z | Launch | TD 171 |
| CDS 44829 | JSC reported the forward UPD's had an incorrect status at 0236:50Z. This problem is attributed to overlapping SHO's that were scheduled.. The WSC Line Maintenance Tech (LMT) initiated a manual Low Rate Data Switch connection to correct the UPD's at 0250Z. No impact to support. Problem closed. | | | |
| 3 | WSC | 11/1927Z | Orbit 13 | TDS |
| CDS 44829 | The High Data Rate recorder (HDDR) failed to do a path failover. The Line Maintenance Tech did a manual failover. This is a known problem anomaly at WSC. | | | |

B. Ground Network (GN):

1	PDL	06/0000Z	Pre-launch	
CDS 44803 DR44803	During a test with Landsat-5 on 12/06/06, the PDL TAP software (version 31) would not change from LTAS mode to Auto Track when LTAS data was invalid. Version 31 software has been extensively tested since October 2006 during acceptance testing, TCDT, STA Flybys, and multiple supports with Landsat-5, Wire, and SWAS. A meeting was held with Network Director, STS-116 Flight Director, Lead GC, station management, and software engineers on the evening of 12/06/06 and it was agreed that remaining on software version 31 vice falling back to version 30 represented less risk to the mission. Work around procedure PDL-02 was put in place to select INP then Auto Track should the problem reoccur. Problem is under investigation.			
2	ASCC	06/1935Z	Pre-launch	ISS Orbit 2039
JCN (TBS)	DOD Track reported late acquisition due to a system computer anomaly at the start of pass. Transmitter turn on was about one minute late. Problem under investigation.			
3	ANTC	07/0018Z	Pre-launch	ISS Orbit 2043
JCN (TBS)	DOD Track reported no tracking data was transmitted during pass. Playback was reported to be good but the speed was twice real time rate. Problem under investigation.			
4	DFRC	07/1700Z	Pre-launch	
DR 1468	Loss of forward link capability (13 db down) on ATF-3 prior to interface checks with the GSFC NIC. Replaced a bad cable to correct the problem. No impact to support. Problem closed.			
5	WLPS	07/2215Z	Pre-launch	
CDS 44816	During the STS-116 launch count command checks on 12/7, the Wallops 11- meter prime OD PTP crashed. Site switched to the backup PTP to continue command checks and the backup PTP crashed. Avtec (PTP vendor) identified a problem with the serial output DLL patch previously installed to correct the rate variation problem. A freeze exemption was granted for the launch to install the corrected DLL patch. After installing the patch all launch count telemetry and command interfaces checks were successfully completed on the prime and backup PTP; the 1108VT was also successful. Post scrub testing exercising numerous desktop enables and disables were also 100% successful.			
6	KPTC	09/1454Z	Pre-launch	ISS 2084

JCN (TBS) Site had problems with low speed tracking data computer. Computer was restarted and data was on line 1.4 minutes late. Playback had same missing data.

7 KPTC 09/1651Z Pre-launch ISS 2085
 JCN (TBS) The screens hung on the low speed tracking data computer and had to be restarted at beginning of pass. JSC reported one minute of data loss. Problem under investigation.

8 WPS 10/0150Z Launch
 CDS 44832 The 11-meter antenna had problems with autotrack during the roll to heads up maneuver. The antenna operator switched to LTAS to correct problem and establish track. JSC DFE reported data hits on the Wallops 192kb data during the anomaly. Problem under investigation.

9 HULA-A 10/1542Z Orbit 10
 MIR (TBS) King experienced problems propagating the TLE data to the station. As a result, HULA did not have updated angles to acquire orbiter. JSC reported receiving about 50% of the dump. King will investigate.

10 ASCC 10/1759Z ISS 2101
 JCN (TBS) ASCC 10/1807Z Orbit 11
 ASCC 10/1933Z ISS 2102
 ASCC 10/1940Z Orbit 12
 Site reported transmitter would not turn on due to sub-controller anomaly. Low speed tracking data computer was not transmitting data. Computer was rebooted to correct LSD anomaly. Site was turned green at 10/2100Z after replacing transmitter sub-controller. Additional passes will be supported on ISS to verify status.

C. NISN:

1 OAS 04/0339Z Pre-launch
 TT/EMS NSAP Closed IONet backup path from GSFC to OAFS was
 596539 down due to a router hardware failure. Prime path was up and remained good throughout anomaly. New router from NISN arrived on Dec 5, and was successfully installed & tested.

2 NISN 08/1215Z Pre-launch
 TT571652 IPNOC reported a one second hit from 08/1215:45Z to 1215:46Z on the WSC/JSC and WSC/MSFC IDEA circuits. JSC confirmed the hit. MSFC and IPNOC reported two dropouts on the WSC/MSFC circuit 08/1215:49Z to 1216:28Z and 08/1220:29Z to 1222:01Z. AT&T reported that the circuit hits

were attributed to the OC-48 switching from the working path to the protected path and then switching back to the working path. QWEST replaced a module on the working path and switched back to the working path causing the second drop.

- 3
TT597026 NISN 08/2154Z Pre-launch
KSC/FAA Miami Shuttle weather voice briefing circuit was down from 08/2154Z- 09/1632Z. RFO was a cable between KSC NSAP Mux 212 channel -14 and Mux 213 channel-12 toward JSC was found disconnected and had to be reconnected.

- 4
TT/597039 NISN 09/0355Z Pre-launch
The MSFC ISS Out-of-Band circuit went down at 09/0355Z and was turned out to the carrier for intrusive testing. Carrier reported circuit failed at the DACS in the Huntsville office. AT&T turned the problem over to Bell South and as of 0740Z Bell South had not picked up the ticket because their ticketing system is down. The RFO cleared before isolation due to the ticketing system. The affected circuit was an admin circuit and did not affect the data flow. Problem closed.

- 5
TT 597066 NISN 09/1300Z Pre-launch
GSFC Tech Control configured the JSC/MILA command line for NTR vice NSAP. MILA confirmed receiving commands although they were not in the correct circuit configuration. . Operator error. Problem under investigation.

6.
TT 597067 NISN 10/0000z Pre-launch
GSFC/JSC NSAP Closed IONET circuit has been taking errors and has been put on protection. The carrier reported light guide problem. There was no mission impact, as GSFC/JSC Closed IONET is on the NTR backbone for mission data.

D. Other: None

1.
MSR 14787 JSC TV 10/0045Z Pre-launch
Johnson TV earth station was unable to acquire the ET TV downlink from AMC9 transponder K03. GSFC TV and MSFC TV reported good downlink from the satellite. Houston TV configured to a backup digital feed for launch support. Problem is under investigation.

IV. Unresolved from Previous Reports

A. Space Network (SN): None

B. Ground Network (GN): None

C. NISN: None

D. Other: None

V. Info Items and Upcoming Events (Next 24 hours)

- Docking is scheduled for 11/2212Z (17:12 EST).
- P5 unberth and handoff is scheduled for 12/0022Z (11/20:22 EST).