

DATE: September 15, 2010

SUBJECT: NSG HSF Comm Working Group Minutes

LOCATION: Teleconference

ATTENDANCE:

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INTRODUCTION

Ms. Angela Culley convened the September 15, 2010, Human Space Flight (HSF) Network Support Group (NSG) Communications Working Group (WG) meeting to provide a NASA Integrated Services Network (NISN), International Space Station (ISS) In Process NISN Services Request (NSR), ISS Video, and Space Shuttle Retirement update (refer to the presentation, *Human Spaceflight Comm Working Group*).

MEETING ITEMS

- A. Ms. Culley announced that Mr. Seaton Norman/Goddard Space Flight Center (GSFC)/NISN/NASCOM retired effective September 15, 2010. Mr. Norman had provided many long years of outstanding service to NASA. A retirement luncheon will be held at the GSFC Recreation Center on October 5, 2010 (an email announcement will be distributed). Mr. Brad Butts will be assuming Mr. Norman's Space Shuttle and ISS NASA NISN Services Manager (NSM) duties.
- B. The NISN PSLAs are in the customer review cycle. The input is due September 24, 2010. Input has been provided to Mr. Joe Aquino and Mr. Mike Blum. The Marshall Space Flight Center (MSFC) is still reviewing.
- C. The Network contract transition is taking place. Ms. Vicki Stewart/GSFC/NISN is the NASA Project Manager. Mr. Bill Ihnat is the UNITEs Project Manager.
- D. Ms. Culley reviewed the ISS In-process NSRs. The current In-process NSR is 34555.
 1. NSR 34555 was written to provide the ISS customer with two 300-Mbps Layer-2 Ethernet services between the Johnson Space Center (JSC) and the White Sands Complex (WSC) and MSFC and WSC and one 150-Mbps Layer-2 Ethernet service between MSFC and JSC through GSFC/WSC.
 2. The Juniper router software has been upgraded.
 3. Three circuits have been moved to local access at MSFC. Circuit 502299 will be moved in the next week.
 4. The OC-12 activation at WSC was not successful. At this time there are no forward plans. The October 1 implementation date cannot be met. Mr. Mike Blum asked if the WSC site installation should be cancelled. Mr. Chris Neman stated that he could not answer that question until a better status is available. Mr. Jim Bangerter asked if the equipment could go to WSC. Mr. Blum stated that it would mean making two trips and this would need to be discussed with Mr. Ray Sparks. Mr. Bangerter asked how this will impact the Obsolescence Driven Avionics Replacement (ODAR) schedule. Ms. Culley stated that Mr. Alex Baldwin has been notified of the problem. Mr. Jeff Bankert stated that a status can be obtained by the close of business September 17. Ms. Angela Culley accepted an action item to provide update to customer whether NISN can have ISS services in place by October 1 (action item 0910-NSG HSFCWG-01). (Editor's Note: A status has been provided. The work has been scheduled for September 30. This action item is **CLOSED**.)
 5. Mr. Bob Marriott stated that if the operational services include Space Shuttle services and cannot be implemented by October 1, then the services cannot be activated until post STS-133. Mr. Bankert agreed.

6. Mr. Bangerter stated that the carrier needs to provide an answer as to why they did not do the work. Mr. Bankert stated that carrier had an OC-192 turn-up scheduled, but realized that the required cross connects would impact more services than the carrier had stated.
- E. Ms. Culley discussed ISS video. The installation of the Amino encoders/decoders was completed at the Canadian Space Agency (CSA), MSFC Huntsville Operations Support Center (HOSC), and Glenn Telescience Center. Since the installation, there have been problems at the CSA and HOSC with freezing frames and delay. Mr. Shawn Kelly stated that testing has been conducted on the delay issue and a larger problem was not seen. CSA has implemented a change on the cache (now 300 ms) and this change will be monitored. The vendor is making a change and a new Beta code is awaited. Specific changes will be made to the timers. The QA Beta release has been delayed. The frame freeze is occurring approximately every 3 days. MSFC has been remotely refreshing the channel. As an operations enhancement, the automatic refresh has worked well. Previously it was necessary to perform the refresh manually.
- F. Ms. Culley reported that ISS video viewing capability has been implemented at the University of Bremen and University of Kentucky. In the near term, ISS video viewing will be implemented at Immendstad, Germany, the Jet Propulsion Laboratory (JPL), and Canada. Mr. Blum commented that it will also be implemented at the Naval Research Laboratory (NRL).
- G. Ms. Culley reported NISN has been contacted to provide ISS video to two new ISS payloads (DPP and R2D2) at GSFC, their control centers will be co-located in the Space Servicing Control Center. Work is underway to define the requirements. Mr. Blum stated that he believes they want Amino boxes and that he and Mr. Phil Cauthen will need to get an answer and forward the requirements. Mr. Aquino asked if these are separate from the ISS Program. Mr. Blum stated that R2D2 is requesting a lot of voice services. This needs to be discussed with Mr. Ken Jones as there will be resource issues if IVoDS is used. Ms. Culley stated that she will set up another teleconference to discuss the support to the new control centers.
- H. Ms. Culley discussed Space Shuttle retirement. A request was received to disconnect all Space Shuttle data and voice services to the Onizuka Air Station (OAS) and NSR 35732 has been submitted. The NISN equipment at OAS has been confirmed by Mr. Cliff Gatewood. NISN will recover four Small Conversion Devices (SCD), two Nortel ASN routers, and two 3com hubs. It has been agreed that the Programmable Telemetry Processors (PTP) will be recovered as well. Ms. Culley noted that there have been instances where NISN would turn down some services earlier than flyout, such as mission voice to Clear Water. There are other services to Clear Water available. If services are to be kept up for other programs, Ms. Betsy Edwards needs to be informed. She noted that Mr. Eric Barcon conducted a Launch and Landing Program Requirements Document (PRD) Scrub schedule splinter session earlier to discuss when inputs to the PRD will be due and it was decided that the inputs will be due in February 2011. Ms. Culley stated that she would pass this on to Ms. Edwards. Ms. Angela Culley accepted an action item to notify NISN management that Shuttle customer will provide list of services (requirements) for future program by February 20, 2011 (action item 0910-NSG HSFCWG-02).

ACTION ITEM REVIEW

The following action items were assigned at the September 15, 2010, NSG HSF Comm WG meeting:

0910-NSG HSFCWG-01	Angela Culley, GSFC/NISN/CIG
Action:	Provide update to customer whether NISN can have ISS services in place by October 1.
Response:	An update was provided on September 17, 2010
Status:	CLOSED
0910-NSG HSFCWG-02	Angela Culley, GSFC/NISN/CIG
Action:	Notify NISN management that Shuttle customer will provide list of services (requirements) for future program by February 20, 2011.

NEXT MEETING

The next meeting will be announced via email.

(Original approved by)
Ms. Angela Culley/GSFC/NISN/CIG