**NASA Comments on CCSDS On-line Strategic Plan**

General

Need better document structure. Table of content, Section number, ….

In the CCSDS Operating Concept section the CCSDS main objective should be providing interoperability among international space agencies.

CCSDS resource allocation should be in line with the primary goal of interoperability

In the CCSDS Target Missions and “CCSDS Conformance” section standardization should be widely recognized as a vehicle for the interoperability among member agencies first and stimulate the development of world markets is secondary.

In the CCSDS Objective section, “harmonize” should not be the objective but interoperability.

The objective of the CCSDS *is to provide interoperability among member nations space communication* *by leading* the worldwide standardization of space mission information and communication systems, thus promoting international cooperation and enabling these space systems to be effectively integrated with their terrestrial data communications and information systems counterparts

In the Rationale section after that facilitate their adoption add *Theses standards enable space agencies to utilize space and ground assets of other agencies to execute their missions and therefore reduce their cost and operation risk.*

Top of page 7. If this is a list of requirements, then we should have priority, budget and schedule.

Top of page 7. What does it mean “commercial and military missions” requirement and why commercial and military missions have separate requirement?

Under CCSDS standardization concept, change the first sentence to read like:

CCSDS exists to develop the necessary agreements that allow standardized space communication between participating organizations.

Page 8 – put the list of 5 Areas in the order shown in the diagram (switch the last two).

1. Overall Strategic Goals
   1. The CCSDS Mission Statement is *“Advancing interoperability among international space agencies by developing internationally agreed interoperable space communication standards”*

The number of goals far exceeds the reasonable amount of budget available to reach these goals. The plan should be much smaller a more realistic and achievable goals

Is there a priority for the technical strategic goals?

Technical Goal 3.

In the opening paragraph after “ground data system” add interfaces

MOIMS

There is an overlap between MOIMS and SOIS. The first sentence in this section should probably read like:

The objective of the MOIMS area is to address mission operations ground systems required to operate spacecraft and robots, in response to mission requirements.  This includes application-level standards and systems, their associated information management, and any data handling and archival systems making use of the information gathered by the mission.  Interactions of ground system functions with relevant spacecraft on-board systems supporting mission operations are also considered.

CSS

SOIS

The first paragraph of SOIS section should read:

The objective of the Spacecraft Onboard Interface Services (SOIS) area is to address the services and protocols used by communication networks within a spacecraft and within close proximity of the spacecraft. These are applicable to the core spacecraft platform as well as to the interfaces with both internal and external payloads and extra-vehicular activities. SOIS also covers the use of wireless technology for ground, space and planetary surface communication within the spacecraft and within close proximity to the spacecraft.

SIS

The SIS area needs to coordinate with private sector also specifically with IETF for the DTN development and maintenance.