



Promoting Cooperative Solutions for Space Sustainability

SSA AND STM: CURRENT STATUS AND POSSIBLE IMPROVEMENTS

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“The Evolving Landscape of STM”

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- AMOS Dialogue background
- Assessing current SSA and STM practices, policies, and capabilities
- Ways to improve engagement and cooperation for SSA and STM
- Conclusions

AMOS Dialogue Overview

- ***Fourth AMOS Dialogue*** held in September 2015 and co-hosted with Maui Economic Development Board
- ***Invite-only workshop*** held alongside the Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference
- Divided into two sessions
 - Assessment of current SSA and STM procedures
 - Ways to improve cooperation on and engagement in SSA and STM

Current SSA/STM procedures (1)

- Participants were asked:
 - Do they have enough SSA data and services?
 - Where are improvements needed and how can we prioritize them?
 - Are existing international laws and national regulations sufficient?
- Why talk about STM at all?
- Big challenge: *transparency*
- JSpOC is *not a global “space traffic cop”*

- The *importance of figuring out norms*
 - Current SSA system gives false sense of security; *“train wreck”*
- Role of *rules*
 - Enforcement vs. compliance
- *Lack of shared understanding* of what is happening in space and challenges in verifying responsible behavior
- Norms can (and should evolve); how do we make sure they allow sufficient breathing room for industry growth?
- *Concern about cubesats*

Improving Engagement and Cooperation (1)

- Participants were asked:
 - How can governments and operators improve availability of data and services?
 - Should national regulations come before/after international agreements?
- Is hoping countries will be able to track their own objects reasonable?
- *Having data is not enough* – need to know what to do with it
 - Create an international space traffic monitoring service?
- Could create a standard passive tracking device

Improving Engagement and Cooperation (2)

- *Different attitudes internationally toward the urgency* of dealing with space debris
- In order to meet stakeholder needs, *could hold a broadly encompassing conference* to write norms of responsible space behavior
- Could *self-certify* that actions going to, from, and through space are responsible – a scorecard of sorts

- ***Strong focus on norms*** and the important role that they play
- Need to get a ***baseline level of information*** to all satellite operators
- ***Emerging commercial presence*** should be noted
- Need to ***coordinate regulations with international efforts***
- Important to have ***better engagement between the smallsat and SSA communities***



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Questions?

Thanks.

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