CSS Cloud BOF Meeting Notes

November 10, 2022

# Attendees

Erik Barkley (NASA/JPL), Anthony Crowson (ESA), Wes Eddy (NASA/GSFC), David Foulke (MAXAR), Marcin Gnat (DLR), Jaon Liao (NASA/JPL), Costin Radulescu (NASA/JPL), Max Schwinger

# Review/comment re Toulouse meeting summary

1. Walked through the BOF Toulouse meetings summary – please see presentation uploaed to BOF CWE Meeting Material folder
2. No change to the meeting summary as result of the review

# Concept Paper Outline updates

1. Walked through the updates of the concep paper outline in development
2. Discussed that we my not necessarily want to keep the SLE PDU verbatim
   1. A trade study might be useful to see if we retain the SLE PDU (and the implied ASN.1 encoding) or pursue another approach such as JSON encoding
   2. Noted that we might want to take the approach of perserving conceptual aspects of SLE even if a different encoding is choosen
      1. E.g., retain the frame annotation data
      2. Also noted that the telemetry frame as defined by CCSDS is pretty much a given
   3. Action to H. Driehahn, M. Gnat, and M. Schwinger to design a trade stufy for "solving" ASN.1 encoding vs other telemetry file formatting approaches; e.g., would we retain the SLE concepts but have a different encoding scheme -- consider in file and streaming data context
   4. Noted that this would also apply for tracking data (TD-CSTS PDU) and monitor data (MD-CSTS PDU) but not nessarily a file for TDMs (as TDM is not based on ASN.1 encoding)
3. A question re relationship to DTN and CFDP was raised
   1. Noted that should there be a need to extract bundles and/our CFDP PDUs from telemetry frames, etc., that can be done
   2. Agreed that this is not addressed by this effort and that a sentence or two can be addeded to the concept paper to make this clear
4. Discussed need for more use case material, looking at how, on the mission side, tracking data, monitor data can be obtained – APIs involved; essentially the kind of issues that prototyping surfaces
   1. This is likely to be follow-up from the client side presentatin material from J. Liao
   2. Action to J. Liao to provide more information/further considerations from client side based on some his work with AWS

# Discussion re work planning for Spring 2023 meetings

1. E. Barkley noted that it seems feasbile to have a complete concept paper including standards and chartering considerations by the time of the Spring 2023 meetings (early May)
2. Noted that if this is presented to CESG/CMC at the spring meetings, the WG could formally be underway about 3 months after that (considering resources, polling process, etc.)
3. Most immediate goal is the design of the trade space re SLE PDUs/ASN.1 encoding

# AOB (none)