

Agenda for Optical Working Group
F2F Meeting April 29-May 1, 2024 in Washington, DC

Monday Afternoon (1:30-5:30 pm)

- MVP for functional resource model, with other WGs (Monday afternoon)
- Presentations from agencies (Monday afternoon)
 - DSOC status (J. Hamkins/NASA)
 - Optical turbulence simulation (D. Fulton/NG)
 - ESA (C. Heese)
 - CNES (G. Artaud)
 - DLR (J. Poliak)

Tuesday (morning and afternoon) and Wed morning

- Optical ranging (Tues morning)
- Coherent Blue Book discussion (Tues morning and afternoon/Wed morning)
 - Requirements for the book/scope (data rates, mission scenarios, etc.)
 - Channel model (J. Poliak/DLR)
 - Erasure coding (DLR/Tesat—remote participation)
 - Analysis of ARQ, erasure coding, and interleaving: comparing performance, complexity, uplink utilization, latency, and link efficiency (C. Schieler/NASA)
 - Interleaver discussion
 - Code selection, etc.
 - Update: Comparison of the LDPC options (5G NR, O3K LDPC, RF AR4JA LDPC, DVB-S2 LDPC codes) (CNES/G. Artaud)
 - Agency inputs for low-rate coherent signaling (B. Robinson/NASA)
 - DTN WG Presentation
 - Discussion on how/whether to include in-band signaling (DLR)

Wednesday afternoon

- Joint discussion with C&S and SLP WGs (Wed afternoon)
- Action Item review