

CSP-NET Breakout Session:

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The following will be the items that we will discuss during the CSP/NET breakout session:

- **Quasi-Deterministic 802.11ad/ay framework**
Description of the framework that guarantees high-fidelity simulations for IEEE 802.11ad/ay protocols. This framework relies on the Quasi-Deterministic (Q-D) approach to implement the channel model and is made of four tools: the Q-D Realization software, the IEEE 802.11ad Codebook Generator, the IEEE 802.11ad ns-3 implementation, and the Q-D visualizer.
- **Link abstraction and error models above 6 GHz for IEEE 802.11ay and 3GPP 5G NR**
Presentation of different approaches (EESM, MMIB, Q-Table) to generate error models for 802.11ay protocols and link abstraction for LDPC-based NR PHY.
- **802.11ay proposed MIMO architectures:**
Introduction to a proposal to implement IEEE 802.11ay MIMO in the ns-3 system-level simulator.
- **How to use prototyping platforms to improve/validate/invalidate the mmWave simulator:**
Discussion on which are the main elements that require validation and further study through experimental evaluation.