# IEEE 802.3ap
# Signaling Ad Hoc Mtg

IEEE 802.3ap Task Force

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# Agenda

- Signaling ad hoc work item review
- For today
  - Aggressors
  - Channel selection

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# Signaling Ad Hoc Work Items

Signaling Ad Hoc TOPICS
- **Simulation**
    - Set a common simulation/comparison methodology
        - Common sim platform low priority
    - Use channel ad hoc output
        - Define all remaining IC-to-IC elements
- **Solution Comparison Metrics**
    - BER & Reach, Robustness, Latency
    - Power, Complexity & relative cost
    - RFI/EMI

Signaling Ad Hoc *NON-TOPICS*
- Implementation-specific requirements (ESD, etc)
- Specific training and power-up requirements
- Controls and OOB signaling requirements

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# For Today

- **Aggressors**
  - **Define NEXT/FEXT treatment – discussion & proposals**

- **Channel selection**
  - **Tyco channels –Implementation data**

| Test Case | Line Card | | Backplane | | | Total Length | Comments |
|---|---|---|---|---|---|---|---|
| | Length | Material | Length | Material | Stub | | |
| 1 | 10" (254mm) | Nelco 4000 13SI | 20" (508mm) | Nelco 4000 13SI | Bottom (or counter-boring) | 40" (1016mm) | Channel Model *Tyco - Data to be available within 2 to 3 weeks* |
| 2 | 10" (254mm) | Nelco 4000 13 | 20" (508mm) | Nelco 4000 13SI | Bottom (or counter-boring) | 40" (1016mm) | Margin Test Case *Tyco - Data is available.* |
| 3 | 10" (254mm) | Nelco 4000 6 | 20" (508mm) | Nelco 4000 13SI | Bottom (or counter-boring) | 40" (1016mm) | Margin Test Case *Tyco - Data is available.* |
| 4 | 6" (152mm) | Nelco 4000 13 | 20" (508mm) | Nelco 4000 13SI | Bottom (or counter-boring) | 32" (812mm) | ATCA Full Mesh *Tyco - Data is available.* |
| 5 | 6" (152mm) | Nelco 4000 13 | 10" (254mm) | Nelco 4000 13 | Bottom (or counter-boring) | 22" (558mm) | ATCA Dual Star *Tyco - Data is available.* |
| 6 | 6" (152mm) | Nelco 4000 13 | 10" (254mm) | Nelco 4000 13 | Top Layer (with stub) | 22" (558mm) | ATCA Dual Star *Tyco - Data is available.* |
| 7 | 6" (152mm) | Nelco 4000 13SI | 1" (25mm) | Nelco 4000 13SI | Near Top-Layer (with stub) | 13" (330mm) | Adjacent Slot *Tyco - Data is available.* |

NOTE: Data for all test cases includes dominant, adjacent NEXT and FEXT aggressors.

  - **Xilinx channel –Tracks SDD21 mask (from anderson_01_0704)**

  - **Other channels for consideration & proposals – discussion**

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