SYSTEM OPERATOR INPUT FOR CONFIGURABLE DWDM SYSTEM

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SUPPORTERS

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PREVIOUS PRESENTATIONS

- In schmitt_3ct_01a_0519.pdf from the May Interim Meeting, asked: what do we really mean by min/max frequency, and what are the implications of that definition choice?
  - Proposed adopting a definition that we are defining a permissible range, but that compliant devices/links can support any subset of that range
- In dambrosia_3ct_01b_190620.pdf from the June 20 Interim Teleconference Meeting, the concept of a "User Configurable DWDM Link" was advanced, based on observations of group discussions by the chair
  - Single PHY with table of frequencies, configured by "end-user" (no auto-negotiation)

END-USER OUTREACH

- Following that presentation, have been reaching out to “end-users” to establish their support for the concept of “configurability”
  - In this context, I am interpreting “end-user” to refer to the operator of the DWDM system, including the optical transceivers
- Feedback thus far has supported the idea of “configurability” for the DWDM system
  - Some feedback expressed concern with the use of the term “end-user”, as it could be construed to imply the end customer
- Therefore, propose focusing on concept of “configurability” and dropping use of “end-user” terminology

BACKGROUND FOR CABLE MSO SUPPORT

- In schmitt_3cn_01b_0119.pdf from the January Interim Meeting, the entirety of the CableLabs 100G spec (CM-SP-PHYv1.0) was made available to the 802.3cn/ct Task Forces to use as baseline material if/as appropriate
  - CableLabs PHYv1.0 spec represents consensus from cable operators on a cost effective approach for 100G that meets their business needs
- CableLabs spec utilizes a "Configurable DWDM Link" approach
  - Defines a frequency grid and permits devices to support any subset of frequencies within that grid (as few as one)
  - Mandates ability for operator to configure the frequency used
  - Approach adopted via *unanimous consent* of participating cable operators

CONCLUSION

- Based on explicit cable operator input into CableLabs specs, and cable operator support for the contribution of the CableLabs spec to 802.3ct, can state that there is broad support amongst cable operators for a configurable DWDM System
  - Cable operators were identified as a primary market for 100G
- Have been receiving positive feedback regarding configurability from other system operators as well
- Therefore, propose we adopt this approach within 802.3ct as path forward with wording amended to avoid the term “end-user"

THANKS!