

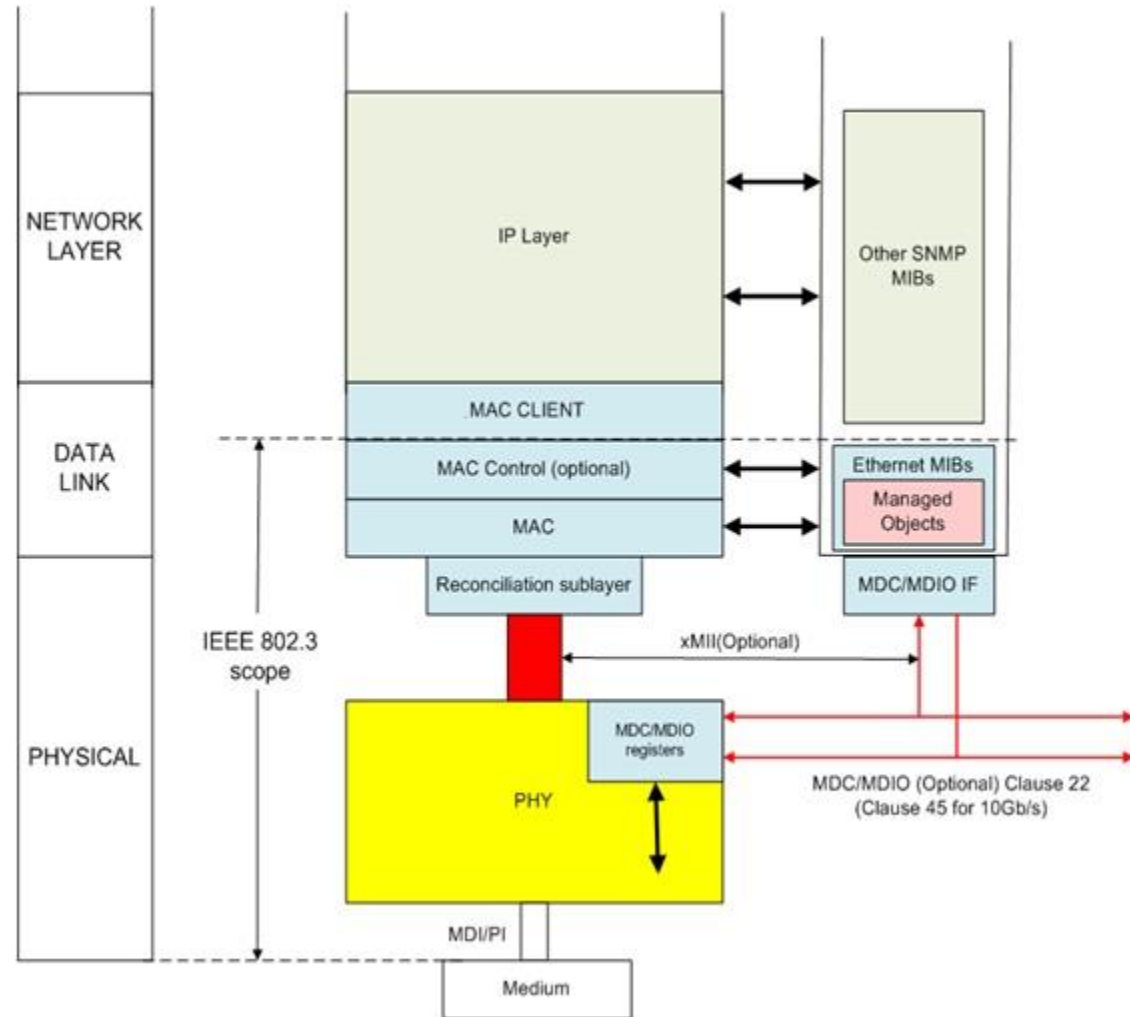
# ***Overview of IEEE P802.3cf YANG Data model Definitions Task Force***

Yan Zhuang, Huawei Technologies  
Geneva, Switzerland, Jan 27, 2018

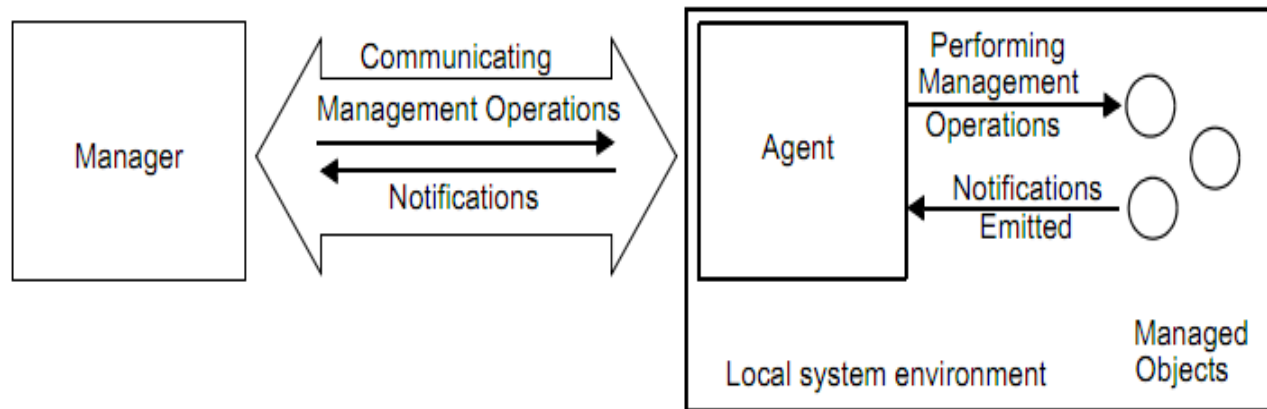
# MIB based IEEE 802.3 Ethernet Management

IEEE 802.3 Ethernet management elements:

- Management Information Base (MIB) modules defined by IEEE Std 802.3.1, IEEE 802.1, IETF, vendors, etc.
- Pervasive access to MAC/MAC Control
- Pervasive access to PHY via MDIO Interface
- Mapping MAC/MAC Control information into MIB objects
- Mapping PHY information into registers and indirectly into MIB objects



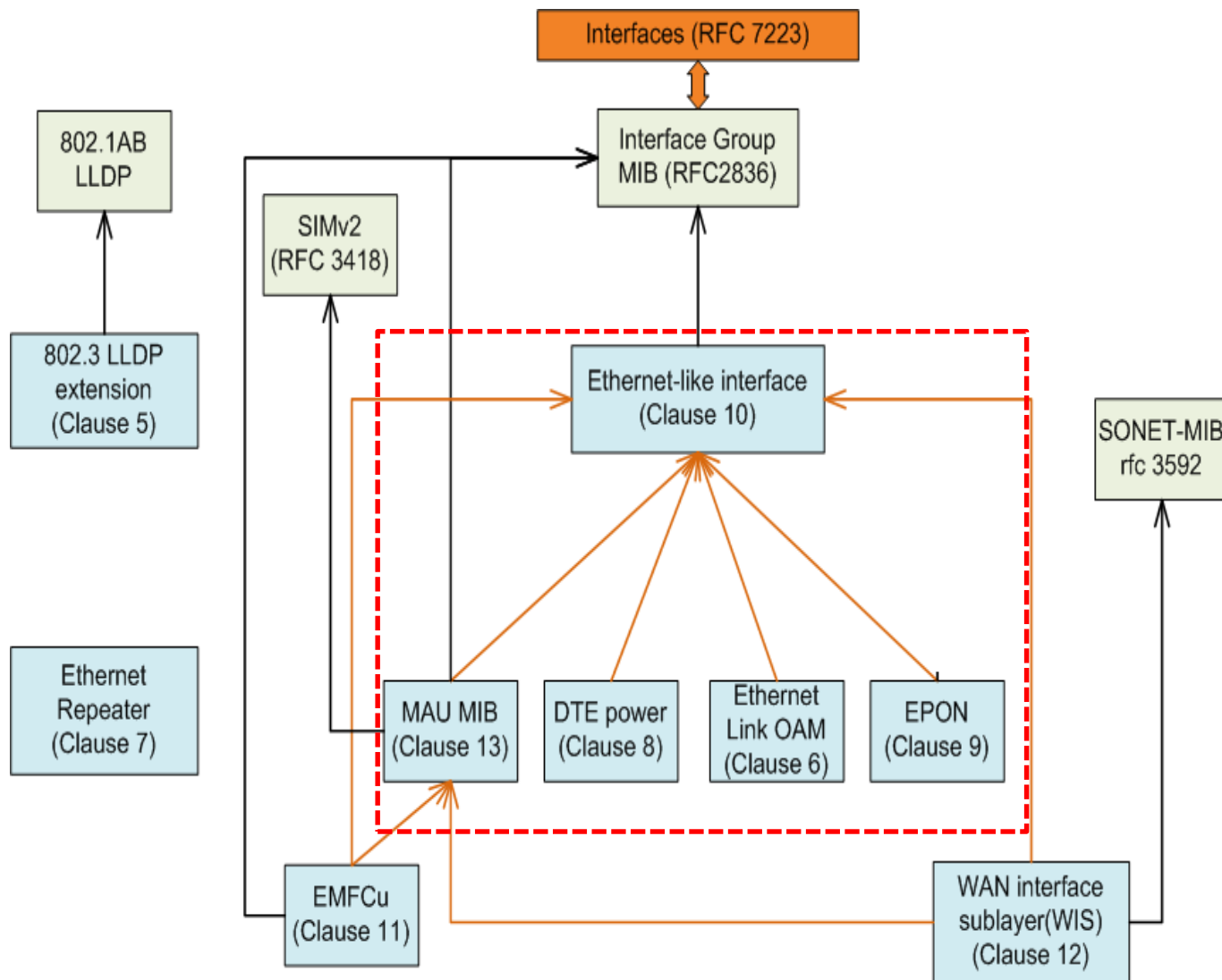
# Reference model for 802.3 management



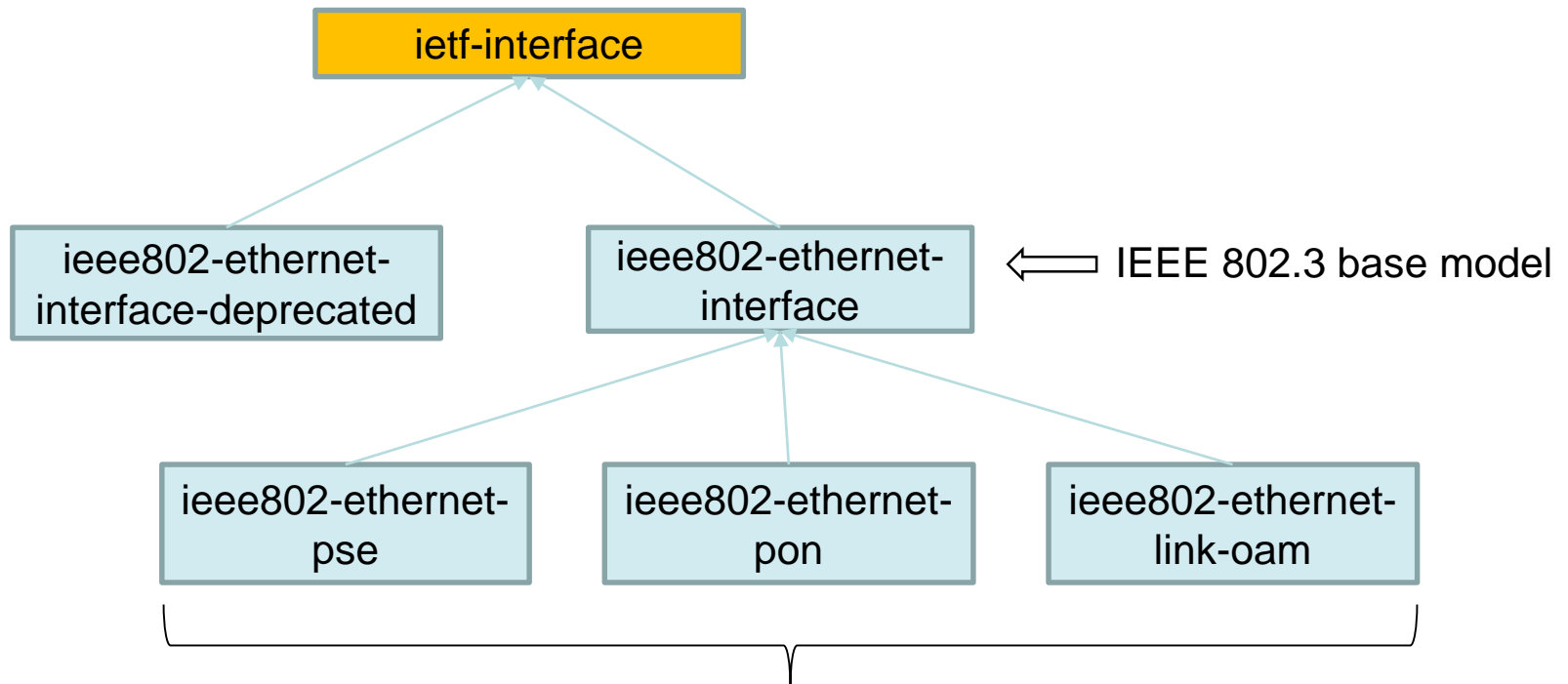
Interaction between manager, agent, and objects, adapted from IEEE Std 802.3, Figure 30-1

- The reference model: An agent is accessed by the remote manager via communication channel to configure and monitor local attributes/functions.
- In case of MIB/SNMP, the communication channel is SNMP while the managed objects are encoded by MIB.
- At high level, YANG/NETCONF is equivalent to MIB/SNMP
  - SNMP protocol is replaced with NETCONF
  - MIB encoded data is expressed with YANG models

# IEEE Std 802.3.1-2013 MIBs



# What do we do in 802.3cf?



Augment the 802.3 Ethernet data model with specific attributes.

# Status of P802.3.2

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- Reached consensus on draft modules within Task Force.
- Finished transition to NMDA (see draft-ietf-netmod-revised-datastores and draft-dsdt-nmda-guidelines) style.
- Prepared D2.0 and stepped into WG ballot.

# Information

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- The homepage for the IEEE P802.3cf task force is at <http://www.ieee802.org/3/cf/index.html>.
- The latest code for YANG models is available on github <https://github.com/YangModels/yang/tree/master/standard/ieee/802.3/draft>.
- We appreciate your review and your comments will be considered.

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# Thank You!