IETF TRILL <-> IEEE 802.1

Donald E. Eastlake 3rd
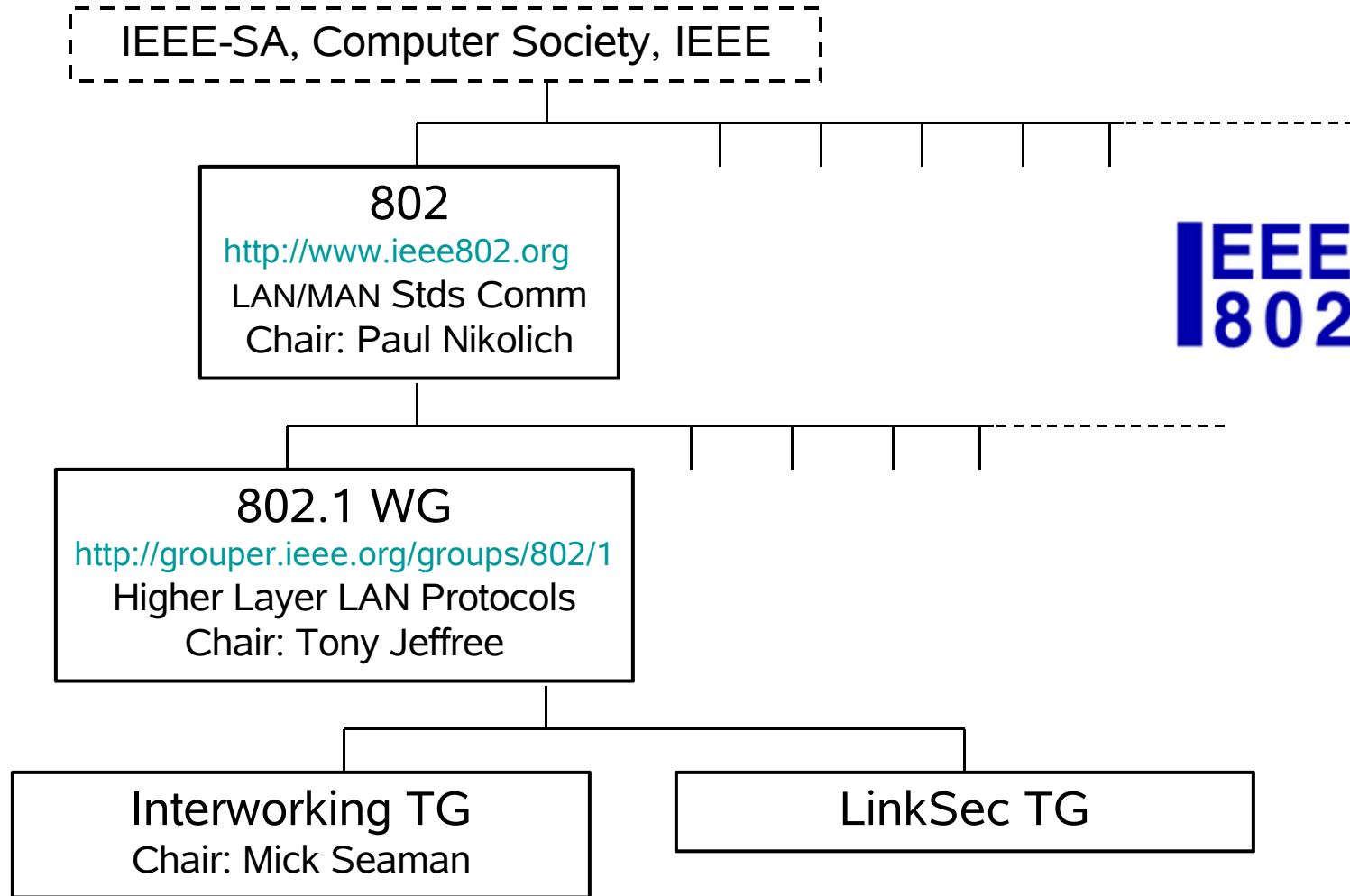
+1-508-786-7554

Donald.Eastlake@motorola.com
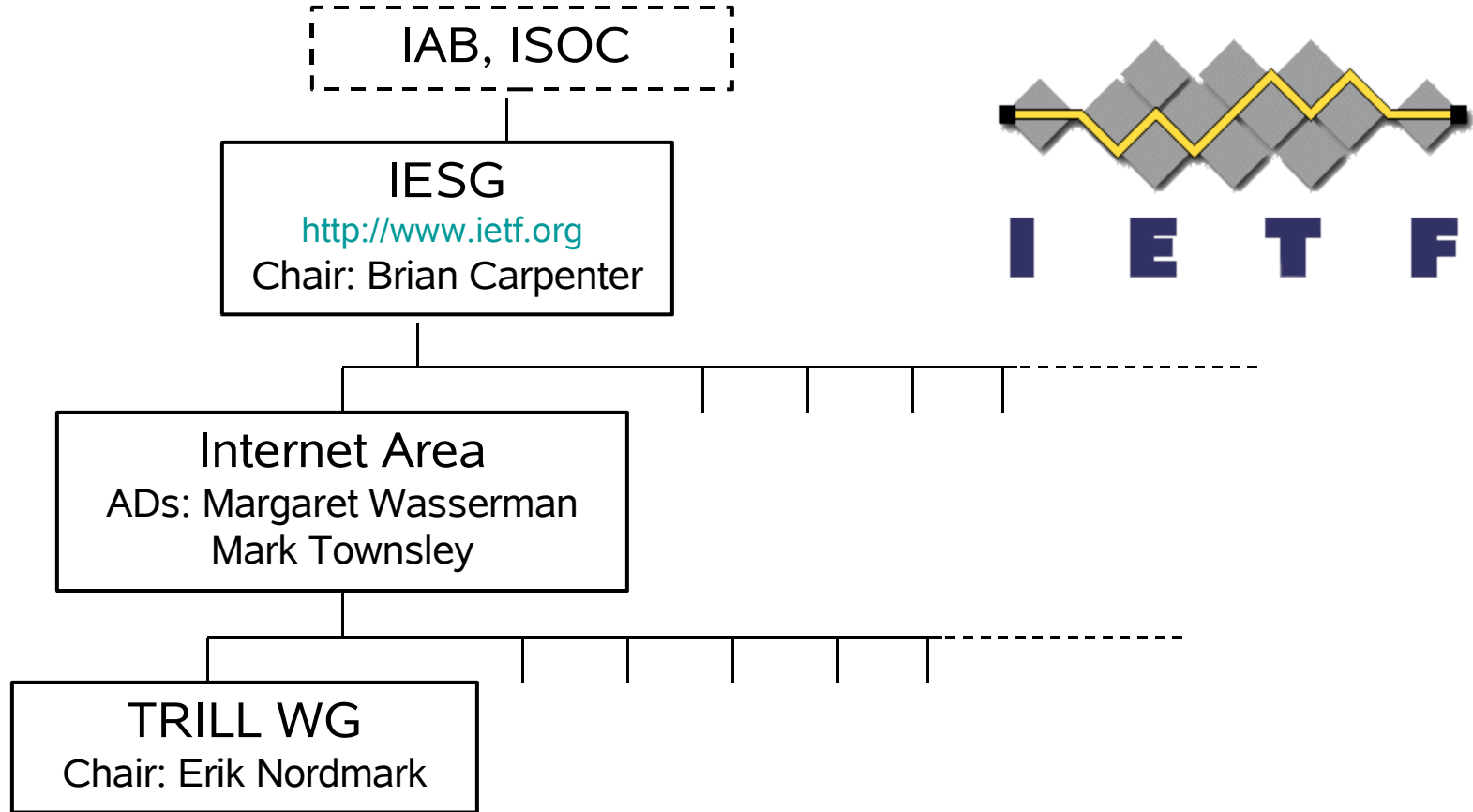
Why TRILL <-> IEEE 802.1?

- TRILL, from the Charter:

  – "… will design a solution for shortest-path frame routing in multi-hop IEEE 802.1-compliant Ethernet networks …"

- IEEE 802.1 is the custodian of the 802 Architecture and it defines what is "802.1-compliant"

Simplified IEEE Structure

IEEE-SA, Computer Society, IEEE

802
http://www.ieee802.org
LAN/MAN Stds Comm
Chair: Paul Nikolich

IEEE 802

802.1 WG
http://grouper.ieee.org/groups/802/1
Higher Layer LAN Protocols
Chair: Tony Jeffree

Interworking TG
Chair: Mick Seaman

LinkSec TG

Simplified IETF Structure Made to Look Like the IEEE Structure

```
         ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
         │     IAB, ISOC        │
         └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
                    │
         ┌─────────────────────┐
         │        IESG         │
         │  http://www.ietf.org│
         │ Chair: Brian Carpenter│
         └─────────────────────┘
```

IAB, ISOC

IESG
http://www.ietf.org
Chair: Brian Carpenter

Internet Area
ADs: Margaret Wasserman
Mark Townsley

TRILL WG
Chair: Erik Nordmark

I E T F

IETF / IEEE Comparison

- **IEEE 802**
  - Formal
  - Membership at WG level determined by complex rules
  - Decisions generally by voting at meetings
  - Major decisions like chartering can go up <u>five</u> levels (TG, WG, EC, Comm, BoD).
- **IETF**
  - Informal
  - Membership undefined
  - Decisions generally by judged consensus on a mailing list
  - Major decisions like charter amendments can go up two levels (WG, IESG)

Methods for Cooperation

- Liaisons
  - Persons appointed to keep a group updated on the activities of another, not generally an empowered representative
  - Formally at the WG level in IEEE, IESG level in IETF
- Document Review Requests
  - Treated very seriously in the IEEE and getting to be that way in the IETF
- Joint Meetings / Teleconferences
  - Logistically difficult
  - Probably not appropriate unless something close to a joint work product is being developed, which is not contemplated for TRILL at this time

Minimum Required by the TRILL Charter

- From the TRILL Charter:
  - "To ensure compatibility with IEEE VLANs and the Ethernet service model, the WG will request an **IEEE liaison relationship** with IEEE 802.1, and IEEE 802.1 will be asked to **review the architecture document and specification(s)** before they are submitted to the IESG."