DLTs in Networking Side Meeting

This is being recorded

Note Well

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- https://www.ietf.org/privacy-policy/ (Privacy Policy)

Why are we here?

- DLT work happening in other forums.
- Inquiries about DLT in Networking and what's going on in the IEEE/IETF/etc.
- Informal forum to discuss DLT in Networking research as a community.
- This meeting is about reporting on recent DLT in Networking work.
- We are not working toward a BoF, this will not become a WG.
- Please save questions for the end of each presentation. Or use chat.
- Comment with +q in the chat box
- This will be recorded.

Agenda

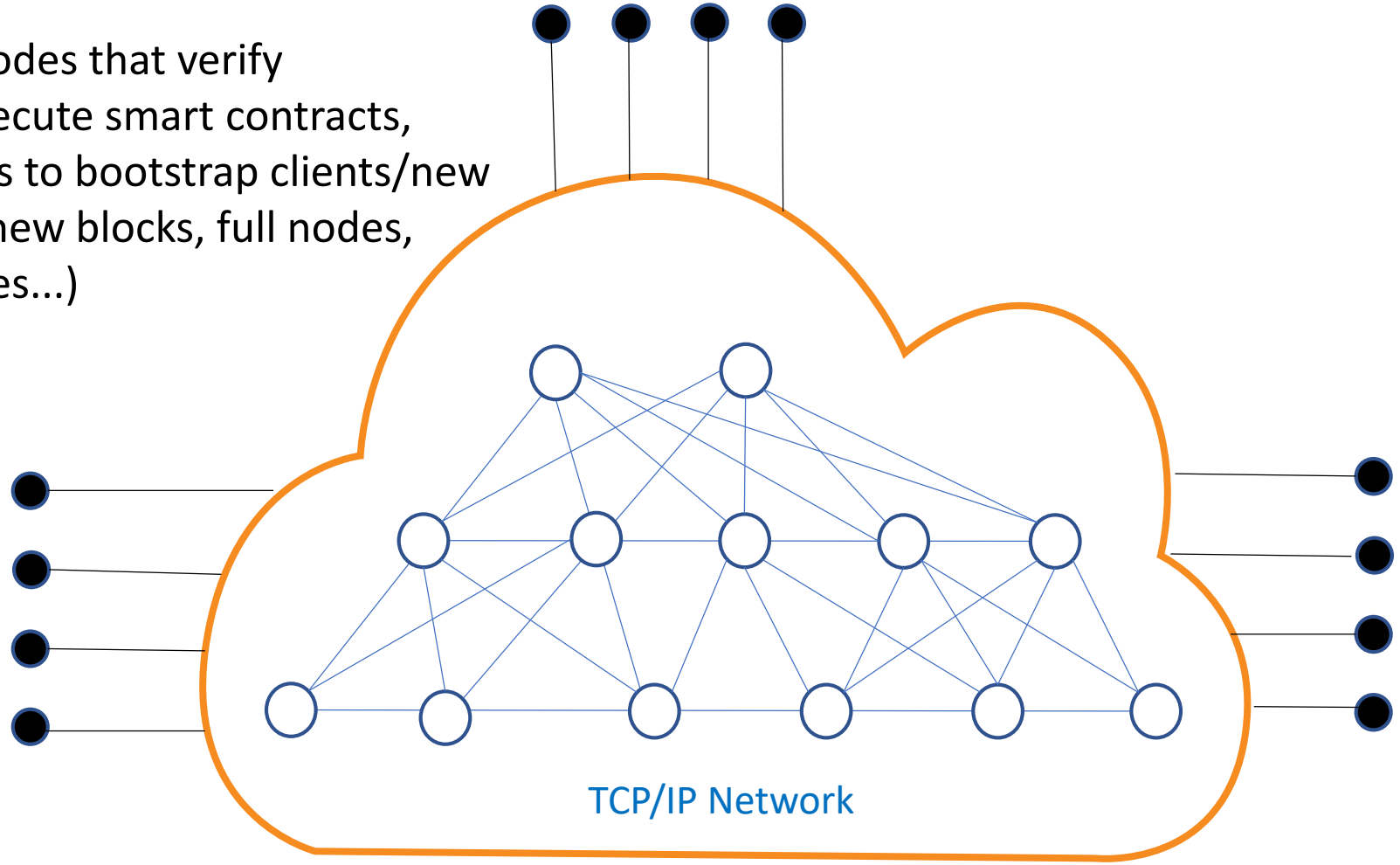
Introduction	Mike McBride	10
LISP and DLTs	Dino Farinacci	20
DLT interoperability	Thomas Hardjono	20
Impact of DLTs on networking	Dirk Trossen	20

The DLT Network

- Crypto currencies and DLTs don’t much care about the underlying TCP/IP network.
- They have a P2P network with a pool of transport layer(TCP, UDP) connections.
- They have done a good job securing their application.

The Network

P2P Network (nodes that verify transactions, execute smart contracts, boot/seed nodes to bootstrap clients/new nodes, process new blocks, full nodes, lightweight nodes...)



Opportunities

- Trust packet capture data
- Network mgmt moves to a decentralized, smart contract-based system. Web 3.0.
- Signing routing advertisements, proof of transit.
- BGP/RPKI. ROA’s in a blockchain.
- Overlays such as LISP

DLT Layering Architecture