

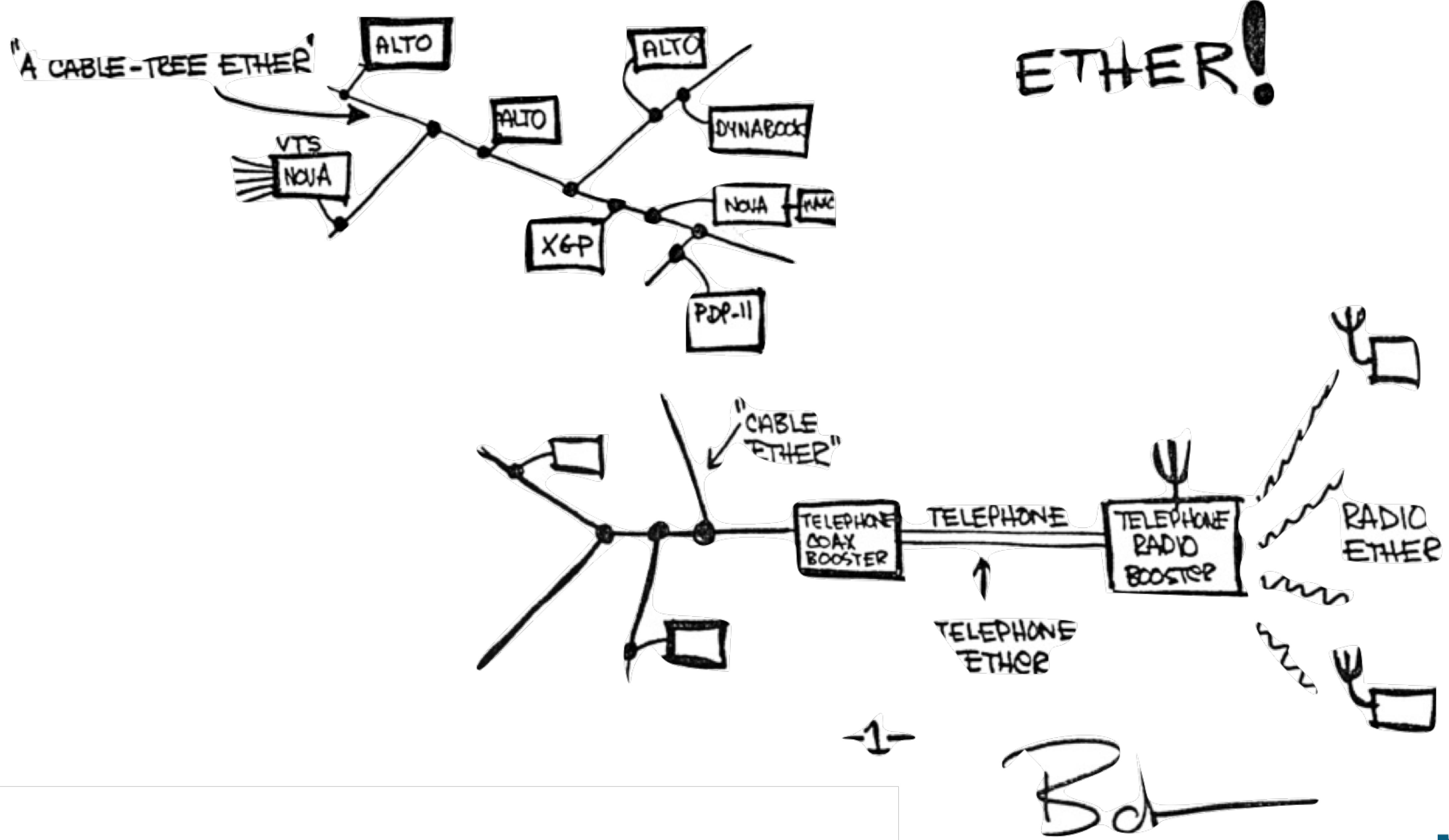
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CCNxCON IV

Glenn Edens, Vice President

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Cedric Westphal (*Huawei*)

Local Organizers

Laura Hill (*PARC*)

Nacho Solis (*PARC*)

Susi Lily (*PARC*)

Glenn Edens (*PARC*)

CCNx Team

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Jansenn, Bill	Uzun, Ersin
Knights, John	Walendowski, Alan
Konezny, Mark	Wang, Yali
Larsson, Markus	Wood, Christopher



Sharing

Twitter: #ccnx

Website: <http://www.ccnx.org/CCNxCon2015>

Slides and recordings will be posted on website

Presenters: please email your PDFs
event@ccnx.org

Feedback: event@ccnx.org

CCNxCON IV 2015 Goals

Provide updates and roadmap

Learn about exciting work happening around CCNx ®

Connect people, foster collaboration

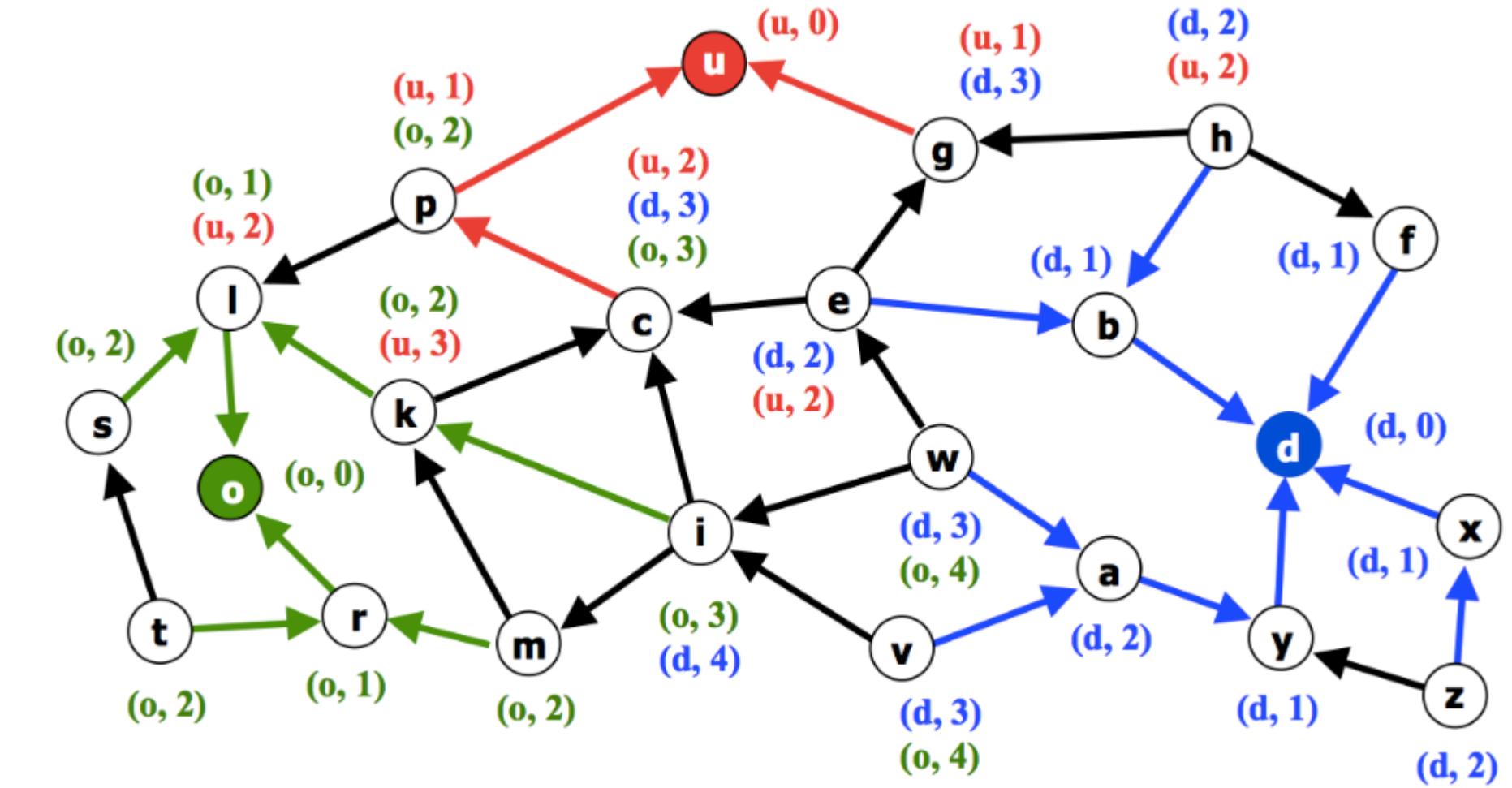
Collectively as a community engage in discussions e.g:
deployment challenges, performance, next steps

Get your feedback!

	MAY 18, 2015	MAY 19, 2015	MAY 20, 2015	MAY 21, 2015	
9:00 – 10:30	Tutorial	Keynote	Protocols 2	Architectural Discussions	
10:30 – 11:00	Break	Break	Break	Break	
11:00 – 12:30	Hackathon	Protocols	Security	Architectural Discussions	
12:30 – 14:00	Lunch	Lunch	Lunch		
14:00 – 15:30	Hackathon	Projects	Apps & Simulations		
15:30 – 16:00	Break	Break	Break		
16:00 – 17:30	Hackathon / Interop	Promos & Reports	Software Update		
18:00 – 19:30		Reception with Demos and Posters			

CCNx

What is it?



CCNx is a **networking protocol** that can work with or replace IP

CCNx is a **middleware stack** to move functions from operating systems to the network, applications can be built on it

CCNx is a **distributed storage and computing** creating a scalable & secure 21st Century architecture at global scale

The background of the slide is a photograph of a clear blue sky with a few wispy, white, scattered clouds.

www.ccnx.org

Path to adoption

Revolution...

Networks are becoming even more software based
enabling the introduction of new protocols in the ‘fast path’

We are at a major inflection point - 5G, IoT, Cloud

Key features like security, and flexibility have a huge economic value

Evolution...

CCNx can work with IP, as an overlay on IP or as middleware.

Applications and services can operate through CCNx-gateways

Path to adoption

IETF...

Moving to RFC

Supporting ICNRG adoption

Process involves as much politics as technical work

Industry...

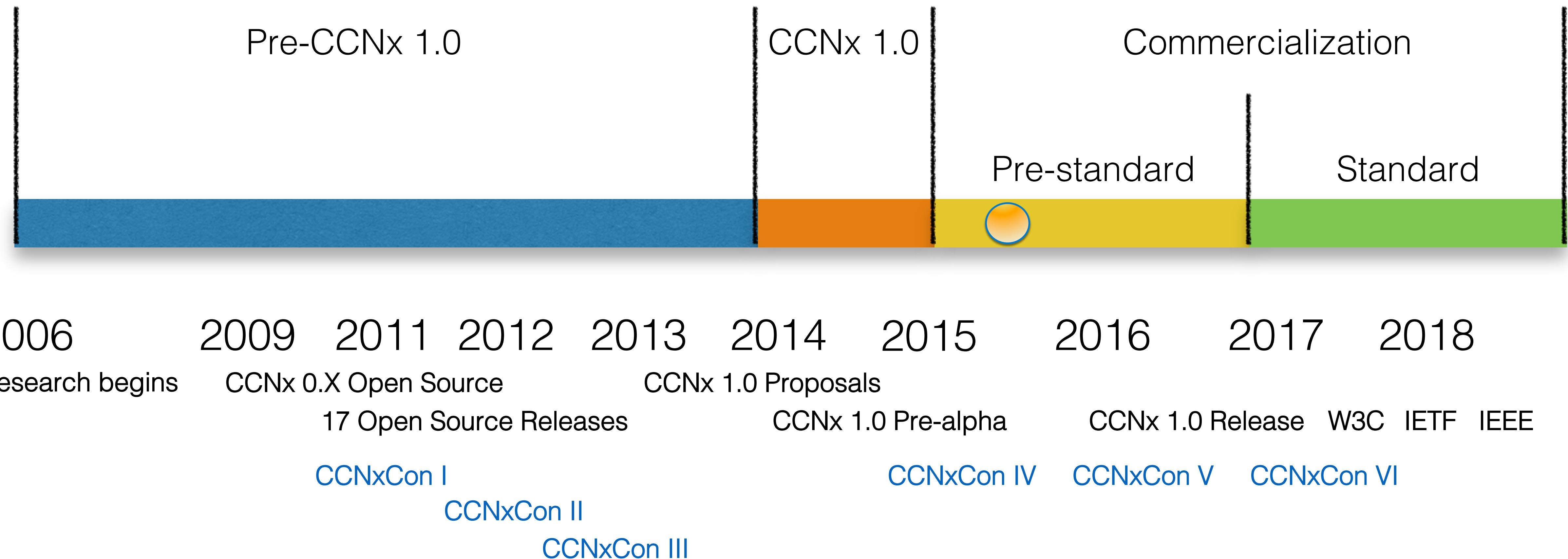
CCNx 1.0 Specifications continually evolving with your input

Increased awareness, interest and demand

Network equipment vendors already showing prototypes

Network operators already working on proof of concepts

CCNx time line



CCNx Release Plan

Release	Content	Result
R0	Core Protocol	Ability to port base core protocol to new platforms (embedded, desktop or server (Mac OS X & Linux))
R1	Services	Ability to install, start, stop and manage a CCN local network
R2	Storage, Devices, Mobility & Performance	Ability to store & retrieve objects in a CCN network, use express headers & run on Android devices
R3	Platforms, Usability & Applications Framework	Ability to run on Web Browsers, Windows, iOS & FreeBSD, write & test “network aware” applications and add functionality to CCN

Programs

CCNxMP – industrial strength access to code, commercial software license and intellectual property (past, present & future)

CCNxEDU – academic access to development tools & source code

CCNxDP – developer access to pre-release technology evaluation license

CCNxEDU

Access to source-code, tools and our updated releases as they become available

Right to publish findings & results, just don't share the code

Right to collaborate with other CCNxMP, CCNxEDU and CCNxDP members, just check with us to verify membership

Free to accredited academic institutions upon execution of CCNxEDU PRTEL

No commercial use

CCNxDP

Access to source-code, tools and our updated releases as they become available

Provide feedback and can request publishing

Right to collaborate with other CCNxMP, CCNxEDU and CCNxDP members, just check with us to verify membership

\$2,995 per year upon execution of CCNxDP PRTEL

Internal evaluation & demos only

What next?

We are working towards broader distribution and availability of source code “at scale”

We are working towards providing support & training

FRAND IP licensing for SEP

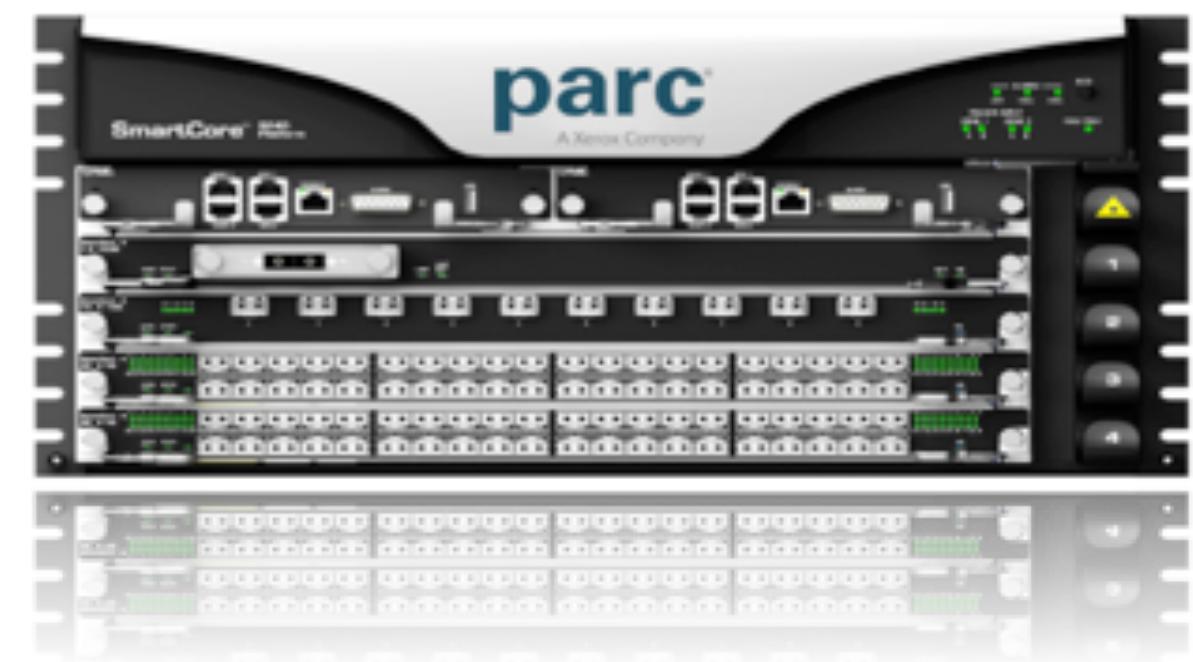
Looking for feedback, collaboration and engagement paced over time

Commercial discussions underway

What's in the box?

Q & A

Smart phones, servers to spaceships





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Thank you