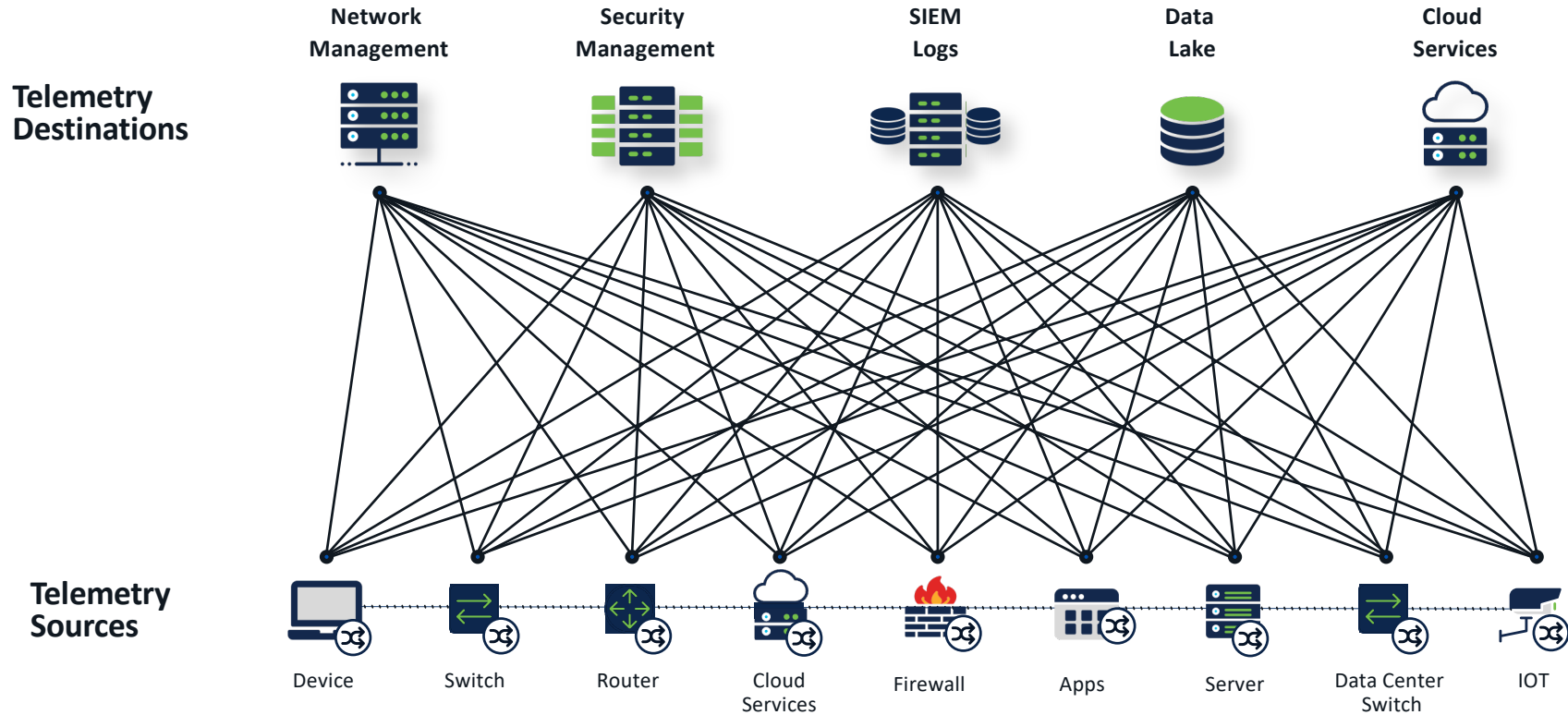


CTB Overview

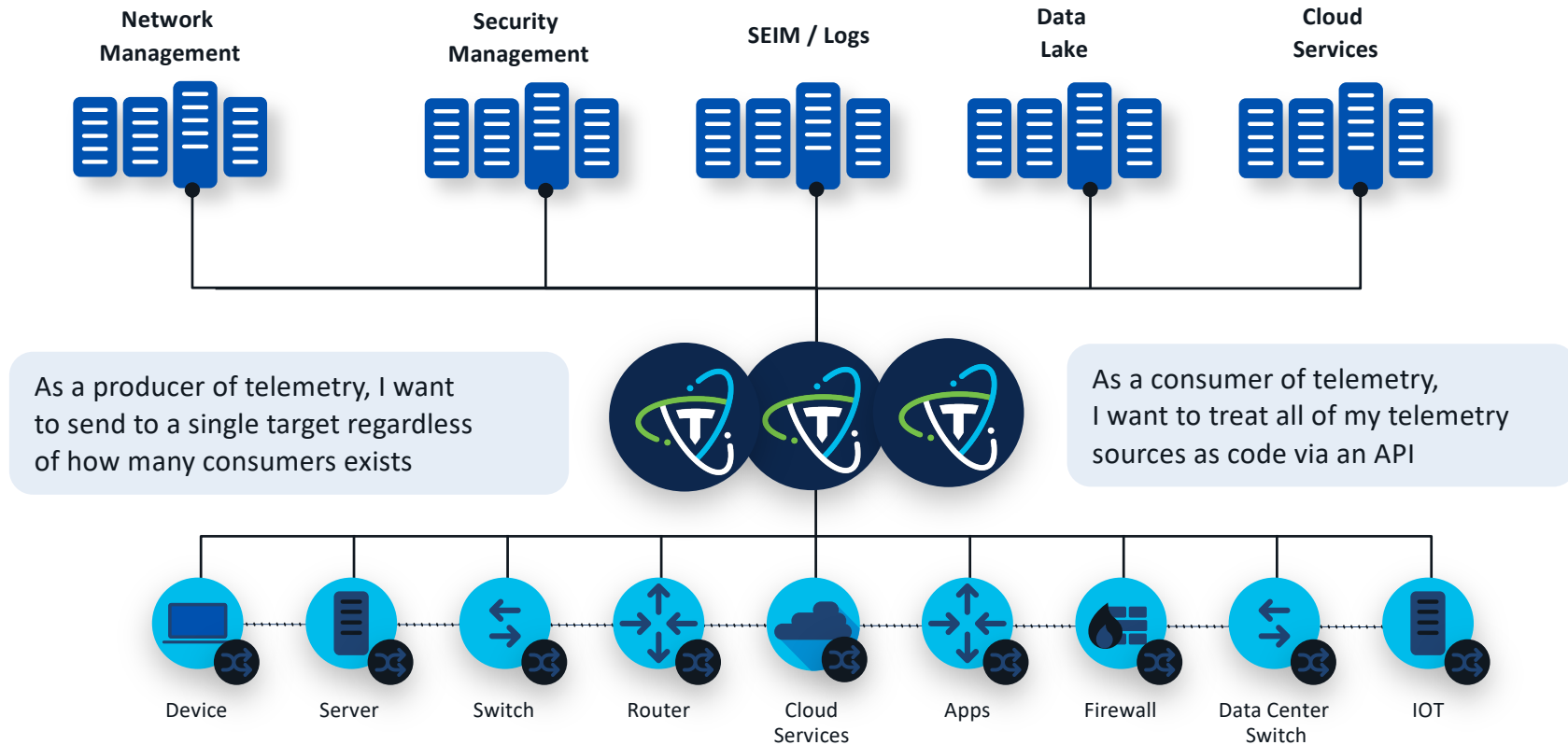
CISCO *Live!*



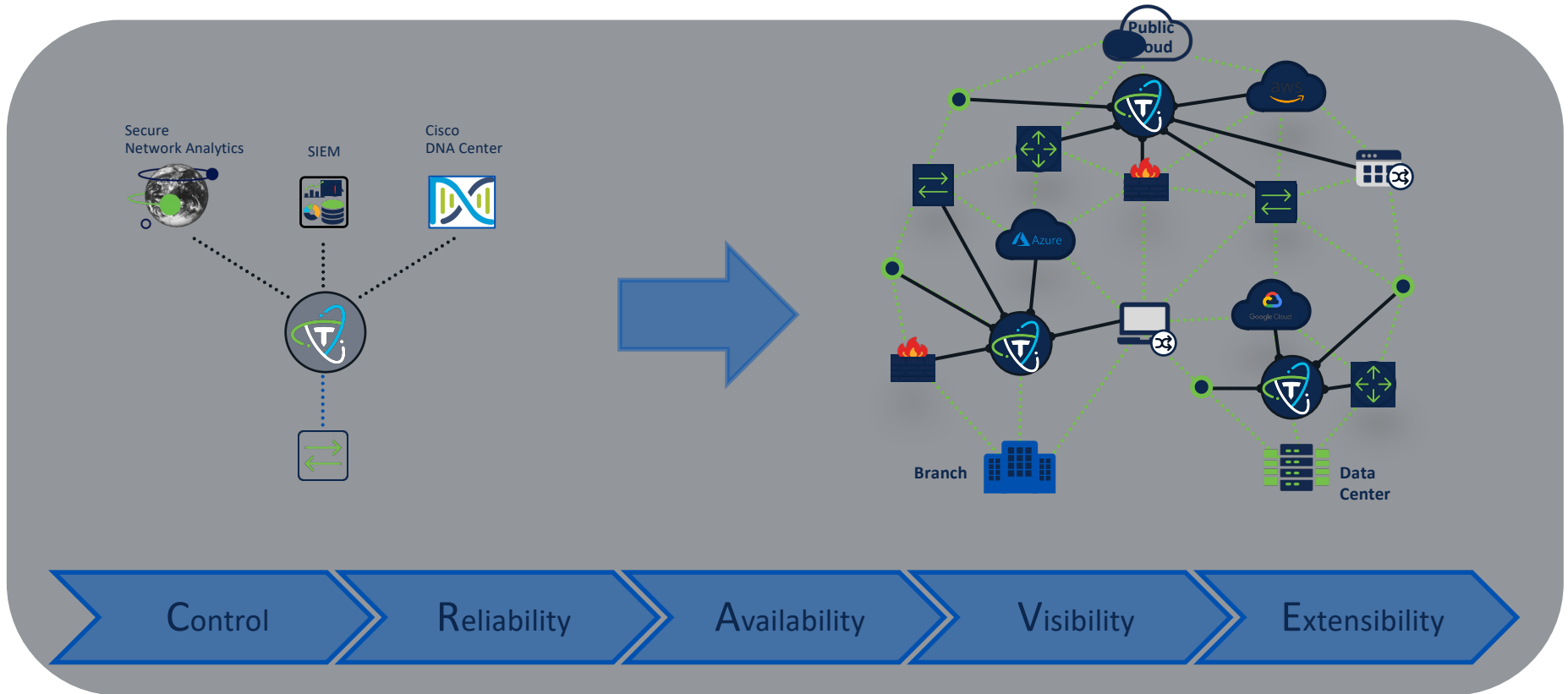
Telemetry Streams



Telemetry Streams – AFTER CTB



Intelligent Telemetry Plane (ITP)



CISCO *Live!*

Cisco Telemetry Broker Democratizes Telemetry Data



Brokering

The ability to route and replicate telemetry data from a source location to multiple destinations

Brokering

Replicate Telemetry

(10x perf improvement over UDP Director)



Quickly enable PoV/onboarding of non-incumbent tools

Route Telemetry

(Cloud, On Prem, Container, Serverless)



Let teams run the tools of their choice without deploying new agents/collectors



Filtering

The ability to filter data being replicated to enable fine grain control over what destinations ingest and analyze

Filtering

Filter to Drop & Segment



Control Costs: Pay Splunk to only index high value data

Compliance: Keep low value data in low-cost storage



Transforming

The ability to transform data protocols from the source to the destinations protocol of choice

Transformation

Protocol Transformation



Increased visibility of legacy sources, and into cloud sources

Data Transformation



Aggregate data, transform fields, add context

Anonymize PII



GDPR compliance to all downstream tools

Telemetry Exporters

Netflow / sFlow

Syslog

App. Exporters (NVM)

SNMP Trap

AWS/Azure Logs

Proxy logs

Generic Inputs

Exporters = Network, Application, or
Cloud provider points of telemetry
egress.

CISCO *Live!*

VPP
Powered

CTB Distributed Nodes

Telegraf
Powered

Broker

Transform

Filter

ITP: CRAVE

Custom I/O, Transforms

API

Telemetry Consumers

Cisco Secure Analytics
(SNA, SCA)

Cisco On-Prem Platforms
(DNA Center, Tetration)

3rd Party On-Prem
(Home grown Data Lakes, Live Action, SevOne)

Cisco XDR

3rd Party Cloud Services
(SIEM/Datadog/ServiceNow)

OTel

...and more

Available now

Available 2025

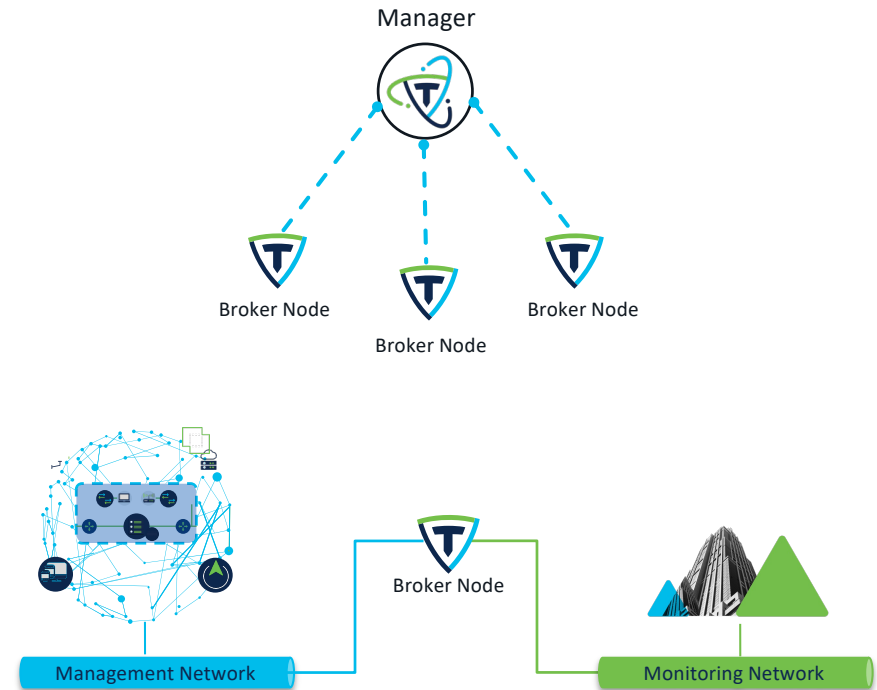
DEVWKS-2340

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11

CTB Components

- CTB Manager node:
 - Only one manager is deployed and can manage multiple Broker nodes*
 - Maintains the policy/rules for the broker nodes enabling central management from one view
 - If the manager goes down, broker nodes continue to process telemetry
 - Backup configurations are created for recovery
- CTB Broker node:
 - Where the telemetry brokering work occurs
 - Can be deployed closest to telemetry sources



*A single Manager supports up to 10 Broker nodes

Deployment specifications

Minimum requirements for a CTB Manager:

- CPU: 4 cores
- Memory: 8 GB
- Storage: 100GB



Versions
7.0, 6.7 or
6.5



Minimum requirements for a CTB Broker Node:

- CPU: 8 cores
- Memory: 12 GB RAM
- Storage: 60 GB



TB2300 now available (Broker Node only)

CTB Network Design (Basic)

- The Manager node has a single interface
 - Dedicated for management traffic only
- Broker nodes have two virtual interfaces
 - One dedicated for management (and TCP traffic)
 - One dedicated for monitoring UDP traffic
- For smaller deployments that do not have a segmented management network all exporters of telemetry are sent to the Broker Node on the management/monitoring network
- The Broker Node must have two IPs (v4 or v6) for Management and Monitoring interfaces

