

Accelerating Innovation with ECOMP & ONAP

SDN and ECOMP: SDN allows us to move to a software-centric network running on a cloud environment. Think of our network as a giant computer and ECOMP is the brain, the operating system that manages it.

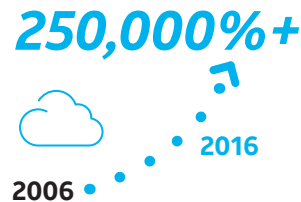
SDN stands for software-defined network. This software-centric cloud environment creates a better, more secure, faster, and more cost-effective network where resources and functions are controlled dynamically.

1 ECOMP Creation

AT&T created ECOMP – Enhanced Control, Orchestration, Management, & Policy – **to scale network services to help meet the surging growth of network traffic.**

ECOMP works as the operating system – or the brain – controlling our Software-Defined Network (SDN).

Between 2006 and 2016, AT&T's network traffic grew more than 250,000%. To meet this surge, AT&T programmers wrote more than 8 million lines of code to create ECOMP.



2 Opened up ECOMP to form ONAP

AT&T opened up ECOMP for others to use. In February 2017, the Linux Foundation announced the merger of ECOMP with another open source networking project to form “ONAP” – this stands for Open Network Automation Platform.

ONAP is a game-changing **global operating system** for network providers and software developers to use and collaborate on. This initiative seeks to create a **common platform for building communications services** within a software-based network cloud. In this way, ONAP will help service providers **rapidly deploy new products and services** by automating key network functions.



3 ONAP Today

Today, **ONAP members serve 55% of all mobile subscribers in the world.** That means more than half of all mobile subscribers could soon be using networks running on software code AT&T helped create.

ONAP membership is growing fast with Vodafone, Comcast, Fujitsu, and Samsung among the latest companies to join.



4 ONAP Tomorrow

As a common platform for building communications services, **ONAP will both speed delivery of innovative new services and help meet the exploding consumer demand** for more speed, more devices, and more applications.

Before ECOMP & ONAP
Ordering, designing, and building new network services **could take months or over a year.**

After ECOMP & ONAP
Process for designing, configuring, and building new network services could be **reduced to minutes.**

In the future, virtual reality and autonomous cars will work seamlessly by using ONAP software AT&T employees were instrumental in writing.



Citations

1. Chapman 8/30/17 Memo
“By the end of 2016, our network traffic grew more than 250,000% since 2006. ECOMP was created to scale our network services to help meet the boost in network traffic expected by 2020 and beyond.
2. AT&T 9/13/17 Internal Blog
Chapman 8/30/17 Memo
“In Feb. 2017, The Linux Foundation announced the merger of the AT&T ECOMP platform and the open source networking project (called OPEN-O) to form ONAP, the Open Network Automation Platform.”
3. AT&T 9/13/17 Blog
4. AT&T 9/13/17 Blog
Chapman 8/30/17 Memo
- BEFORE ECOMP: In recent years, a business might have to wait weeks if not months to order, design and build a network service across multiple locations, or change the bandwidth they need to support their business traffic.
- AFTER ECOMP: Today, we operate in a self-serve mode where a business can design, configure and build their own network service, and scale their bandwidth on demand in minutes. We call that Network on Demand.
CONSUMER BENEFITS: With the rise of data-intensive devices like virtual reality gear, ECOMP helps support set-up and control in near realtime. If you want to play a virtual game live with a friend and latency becomes an issue, the game will likely freeze. ECOMP lets you easily boost capacity to ensure the best experience.

