



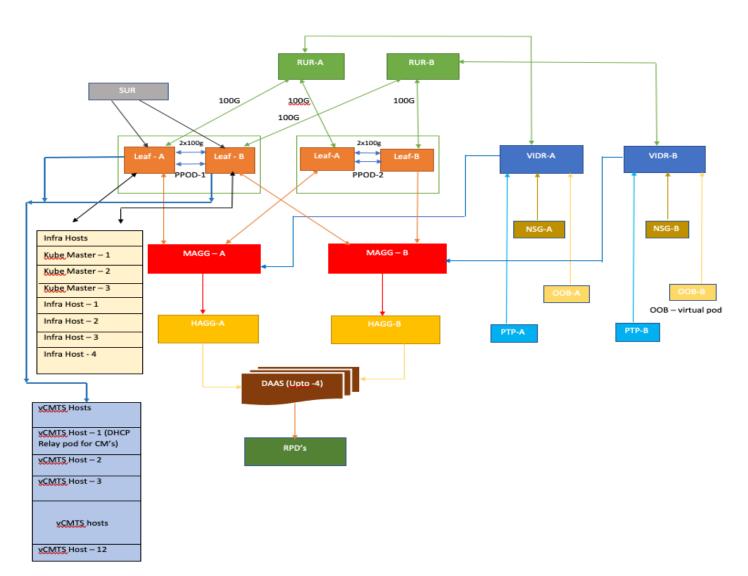






Distributed Access Architecture with rPHY made virtualization possible and helped us to modernize our access network.

We moved to cloud native architecture using general purpose compute and leaf/spine network



Advantages of vCMTS



Near real-time telemetry



Faster

Mean time to detect

Blast zones



Smaller

Via targeted SW upgrades

Leverage & build open source



Easier

Cost reduction, faster implementation time, easy to customize

Fast reactions to course correct



More

Software changes
Frequently; automation
reduces the need for
human intervention

Operating vCMTS At Scale



Infrastructure as code

Configurations are code
Removes human error
Predictable behavior
Deploys faster

Software Deployments

Automated rollout schedule

Manage high risk deployments

Automated workflows via Concourse

Continuous monitoring post deployment

Smart rollback

Anomaly Remediation

Event Detection

Event Correlation

Auto Remediation

Smart Alert

Lifecycle management

Automate maintenance workflows

Zero-touch hardware provisioning

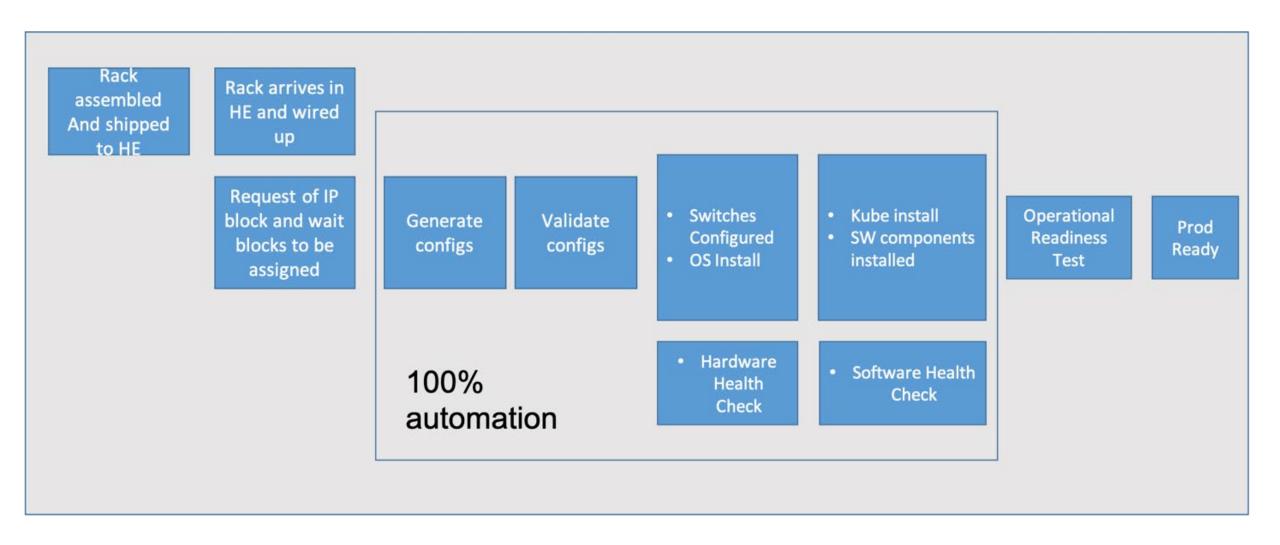
Realtime Network Health

Video source toggling

Dynamic provisioning

Automating the vCMTS cluster stand up

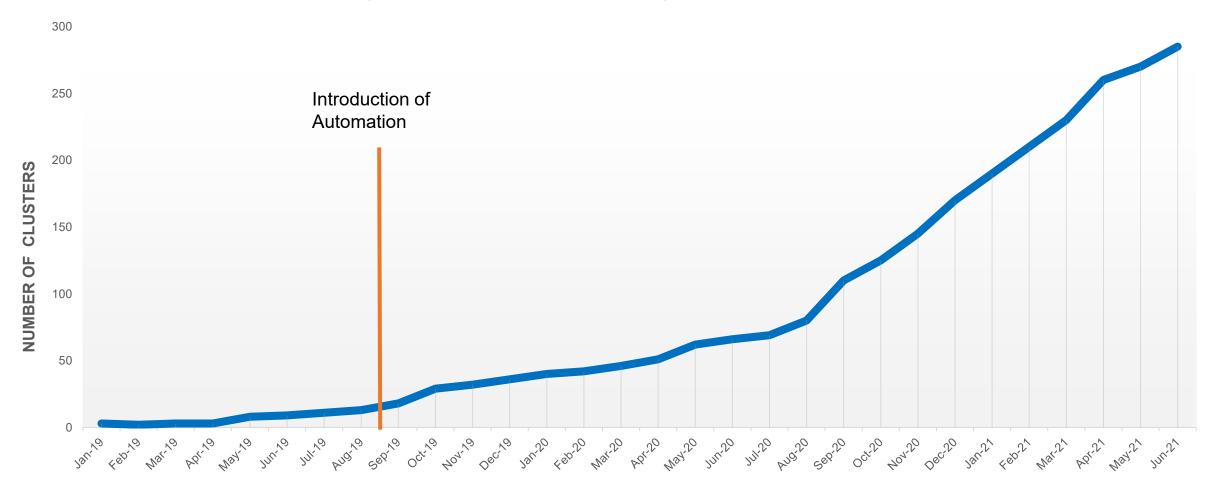




Automating the vCMTS cluster stand up

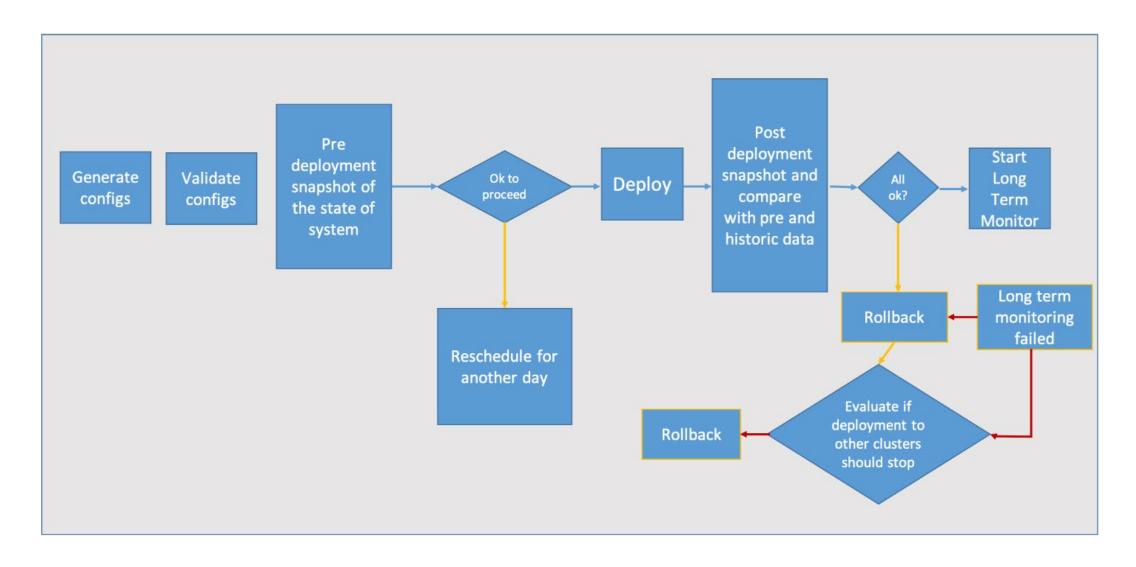


Number of vCMTS clusters versus time. The automated build process began in September 2019, significantly accelerating the cluster build process.



Automating software and network changes

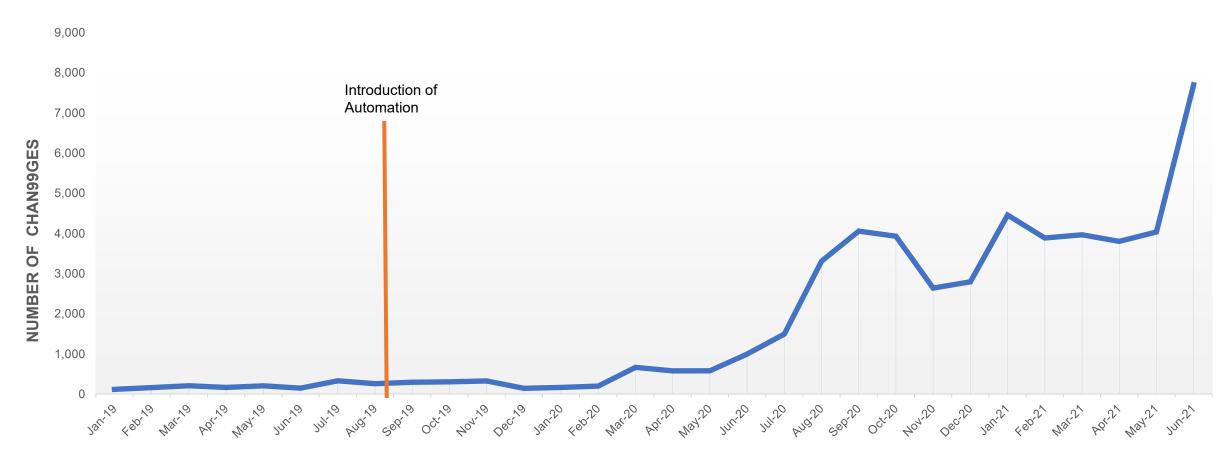




Automating software and network changes



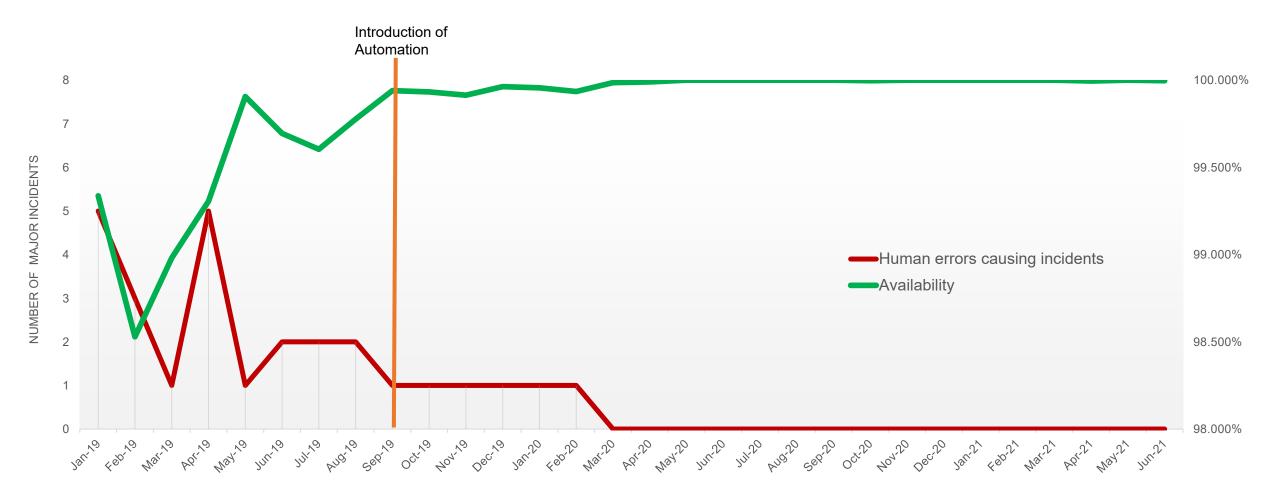
Number of changes versus time. Automated change deployment pipelines were introduced in September 2019



Automating incident detection and mitigation



System availability vs time.. Availability is plotted on the right side (excluding scheduled maintenances) and the number if major incidents per month caused by human error is plotted on the left.



Making Operations Reliable



Run a highly available state of the art network while reducing cost of operations

