Netflix Open Connect



Netflix

Facts

- Currently serving over 190 countries and territories
- 125 Million hours of streaming per day
- More than 75 million members









Netflix Original Content

More at: Netflix Originals Premiere Dates



Netflix Open Connect

Mission

Work with Internet Service Providers to provide a great Netflix experience

■ How?

- Open Connect Appliances within your network
- Private Interconnection at <u>these locations</u> (10G, 40G, 100G)
- Peering over public internet exchange points

Locations

- 60+ current global points of presence
 - 50+ Terabits of capacity
- Thousands of content appliances within ISP networks
- Deployments in every significant Netflix market



Open Connect Appliances (OCA)

- Up to 100% of Netflix content served from within ISP network
 - Reduces or eliminates Netflix traffic on upstream links during peak hours
 - Offload based on scale of deployment
- Content replenishment during off-peak hours (e.g. 2 PM 2 AM)
- ISP controls routing decisions via BGP
- Multiple form factors
 - based on storage and throughput requirements
 - very high throughput per watt / rack unit
- Based on open source software (FreeBSD, Nginx, BIRD)
- Native IPv6 Support



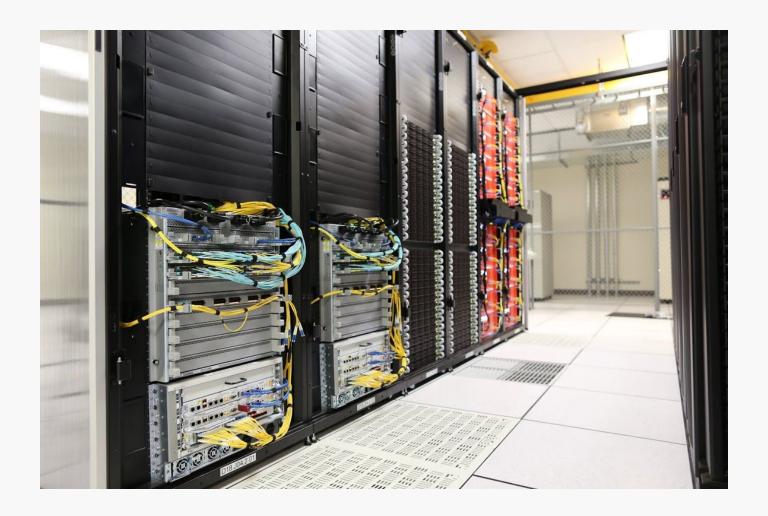
Open Connect Appliance - Requirements

- >5Gbs of peak Netflix traffic
- Space and Power
 - Minimum 4U of rack space
 - 550 watts
 - Expands in 4U and 1U increments, deployment dependent
- 10G and 40G connectivity
- Process
 - Software license agreement
 - Hardware transfer of ownership
 - Site survey for each location
 - Settlement Free Interconnect agreement
 - Additional information http:





A Netflix POP



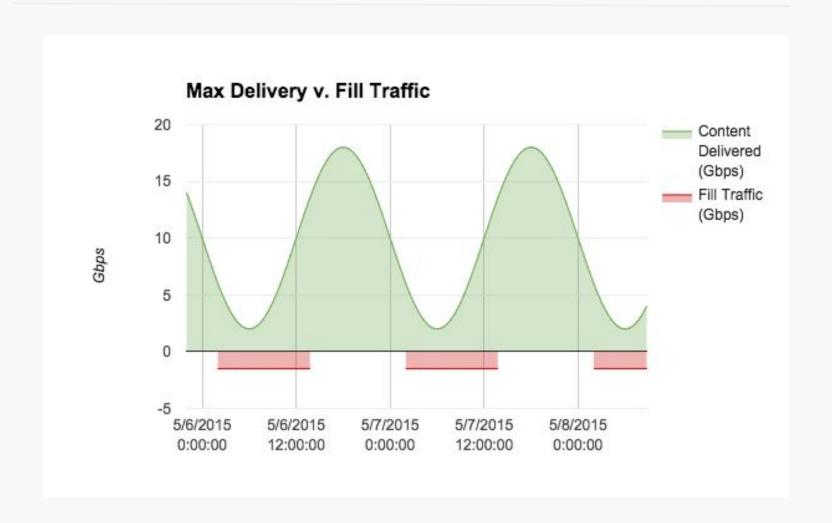




Left: Storage OCA Right: Offload OCA

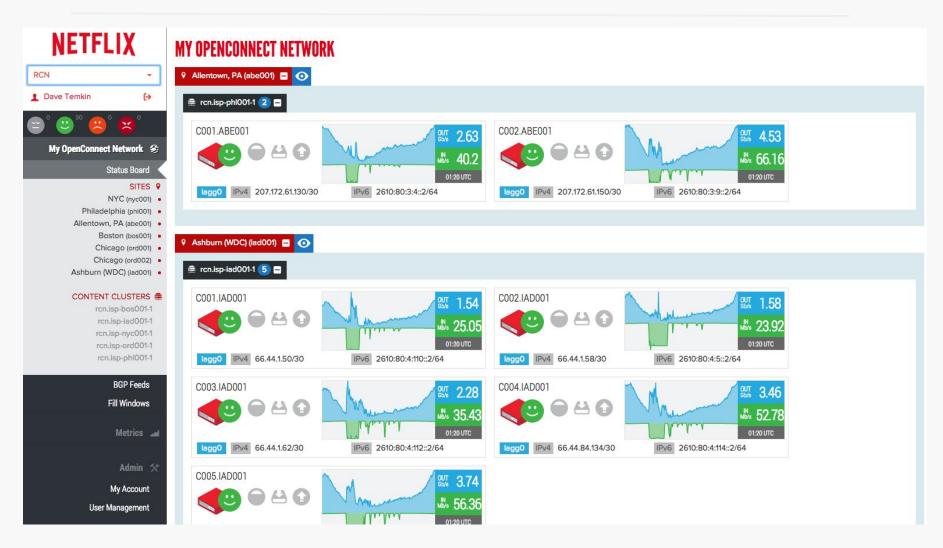


Example OCA Fill & Offload





Partner Portal





Open Connect Support

- 24/7 monitoring
- No maintenance requirements
- Units replaced in case of defect



Netflix in Hong Kong

- Located in Equinix HK1
- Open Connect Appliances available to medium and large networks
- Peering for all networks

More information can be found at https://openconnect.netflix.com



Questions?

