

# Tier 1 service provider improves wholesale ISP operations with Nokia Deepfield Cloud Intelligence

## Use case

In many jurisdictions, regulators require incumbent network operators to separate their customer-facing operations from their wholesale business. Regulators in many environments also mandate that incumbents provide third-party access seekers with wholesale access to their network infrastructure, sometimes at specific rates.

Under the rules set by a regulator, access seeker internet service providers (ISPs) can use an incumbent's access network infrastructure to reach and provide services to subscribers. This is a popular way for ISPs that don't have the ability to build out a full network infrastructure to establish a customer base and deliver their services. It is also an effective solution for incumbents seeking to better utilize their infrastructure.

## Challenge

A Tier 1 service provider that provides wholesale access to several smaller access seeker ISPs was searching for a way to optimize its wholesale infrastructure while satisfying regulatory requirements. Recent legislation required the service provider to allow access to its fiber network and cable-based local loop. The provider was looking into tools that would help maximize the utilization of its infrastructure and improve its ability to compete with other large service providers that were offering the same wholesale capabilities.

## Solution

The service provider deployed Deepfield Cloud Intelligence to get real-time, actionable insight into the services it delivered to its own (retail) subscribers.

After a while, the provider realized that Deepfield Cloud Intelligence could also help it to monitor traffic handed over to access seeker ISPs at points of presence (PoPs) and aggregate L3 traffic, peered with several smaller ISPs.

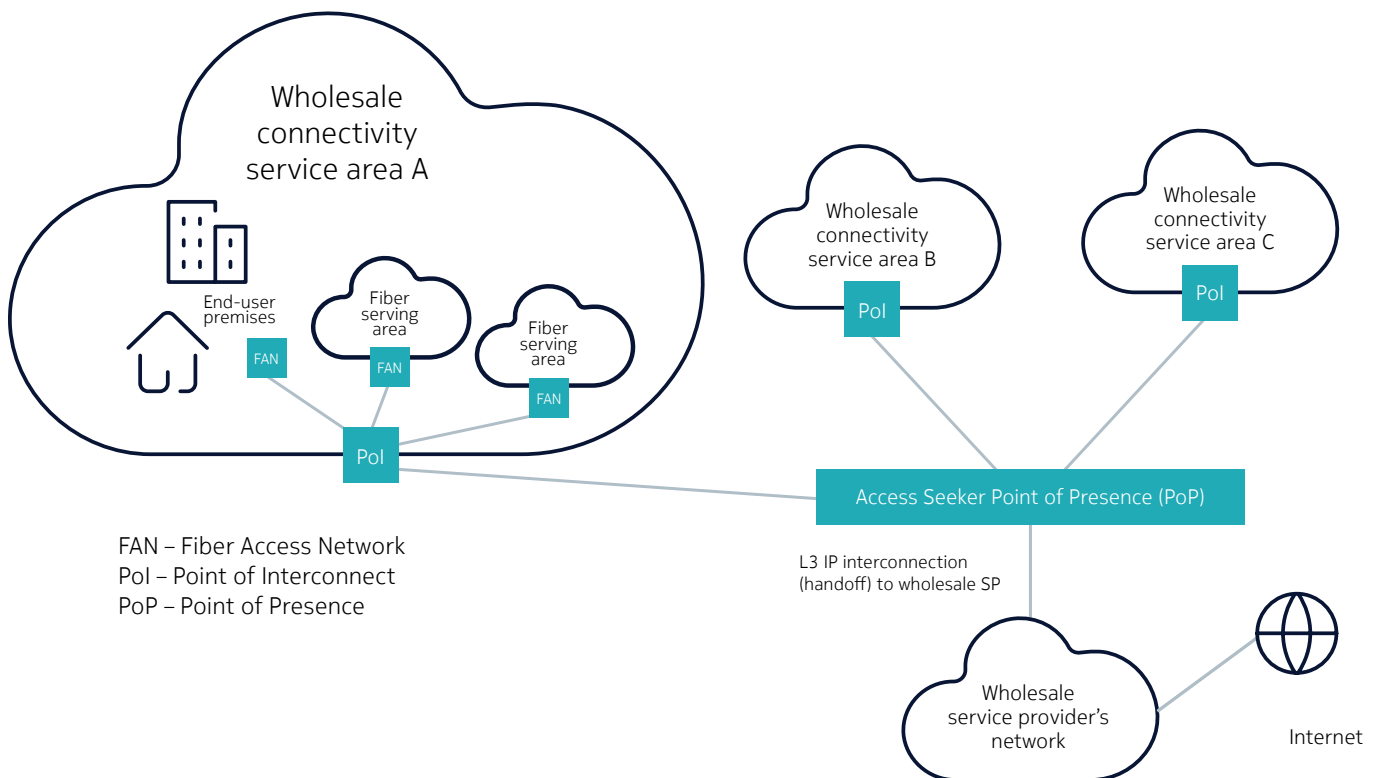
The Deepfield solution equipped the service provider with additional knowledge about:

- Exact traffic volumes handed over to different access seeker ISPs through many PoPs
- Traffic utilization levels on the handoff interfaces, which helped the service provider plan its infrastructure enhancements to meet wholesale access demands
- Aggregate traffic volumes delivered to access seeker ISPs

## Benefits

Deepfield Cloud Intelligence has enabled the service provider to improve its wholesale business practices and provide better visibility into traffic volumes exchanged with access seeker ISPs across PoPs and aggregated traffic handover points. The solution has also allowed the provider to benchmark the utilization levels of its own residential network against its wholesale network operations. This gives the provider a key advantage over its Tier 1 competitors.

Deepfield Cloud Intelligence has enabled the service provider to improve its wholesale business practices and provide better network visibility into wholesale traffic patterns.



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