

CGNAT Analyzer helps cable operator meet regulatory requirements and prevent churn

THE CUSTOMER

A large cable operator in Latin America uses network address translation (NAT) to provide Internet service. The operator utilizes its limited IP address allocation across many times the number of subscribers.

Each subscriber has a cable modem identified by a MAC address. That MAC address is dynamically allocated a private IP address for a specific period of time by a DHCP server.

When a subscriber uses the internet, a session is established; a public IP address is allocated and then de-allocated at the end of the session.

THE CHALLENGE

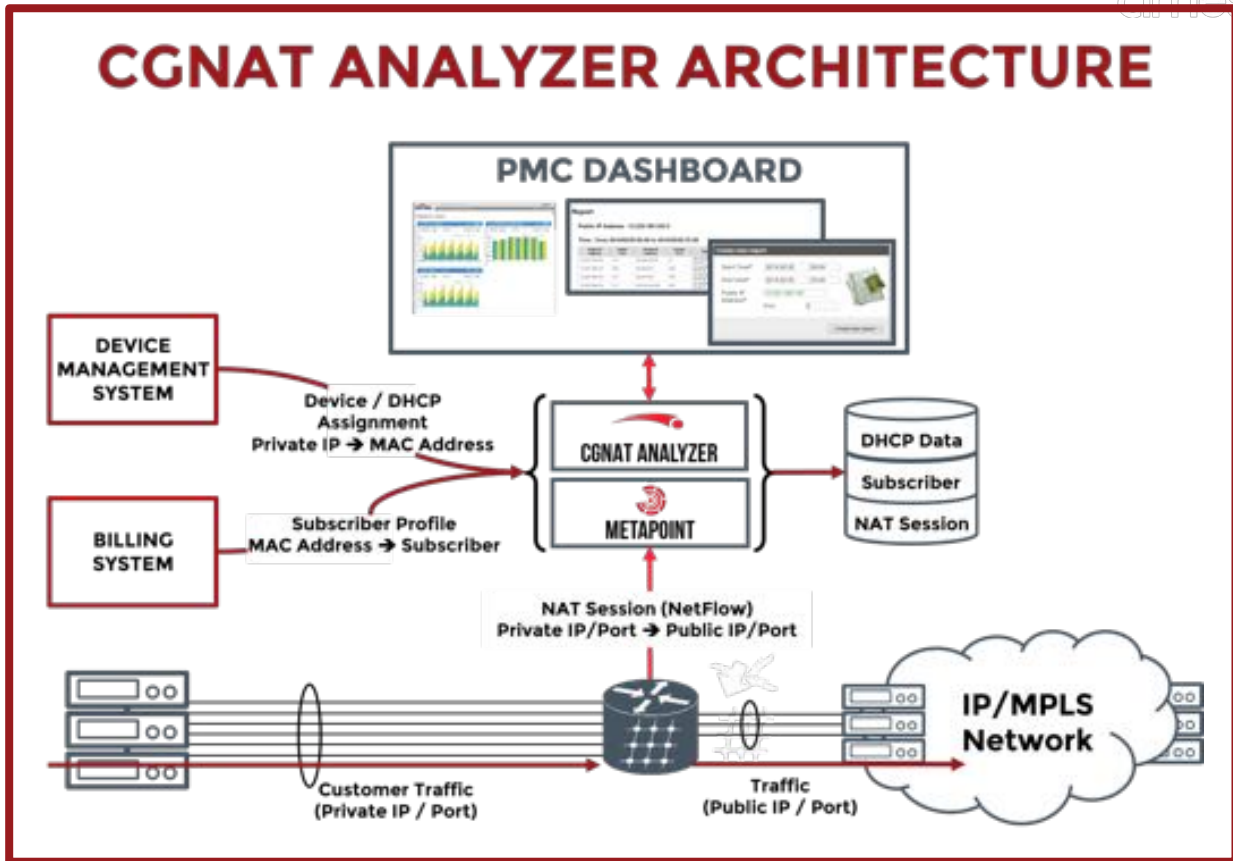
Law enforcement agencies may ask the operator to identify a subscriber who was using one of the operator's public IP addresses at a given time. The operator was unable to provide this information because the public IP addresses are assigned to different private IP addresses as needed.

THE ANSWER

The CGNAT Analyzer uses the NAT NetFlow records from the routers in the operator's network to perform NAT analysis and reporting to meet the requirements of the law enforcement agency. It also can be used to perform additional statistics and reporting functions to improve the network efficiency and service quality.

HIGHLIGHTS

- Lawful intercept supplying signaling, route, destination and network management information
- Filter, analyze, generate reports based on source, destination and subscriber details
- Extensible persistent storage of records
- IP address pool utilization monitoring and management
- System Health Monitoring and KPI reporting
- Carrier grade scalability and proven performance
- Distributed and centralized topologies
- High Availability and geo-redundancy



CGNAT ANALYZER BENEFITS

- Meet law enforcement regulatory requirements
- Improve customer satisfaction and reduce churn by managing IP addresses pool efficiently
- Collects info for every session creation: Private IP address, Private port number, Public IP address, Public port number, Time stamp
- Search for information by time, Public IP and Port, Private IP, Subscriber ID, Destination
- Summary Level Resource Utilization: IP Address Pool Usage, Rate of Allocation of IP Address, Duration of IP Address Usage

ABOUT CIRRIES

Cirries Technologies software empowers network operators and companies in the network visibility, fault isolation, performance and security industries. Cirries' products can digest data from multiple sources and reduce it to the right format for real-time notification, storage or application use to reveal real-time performance and security of any network. Cirries' software is highly scalable and easily deployed on COTS hardware, virtual machines or in the cloud.