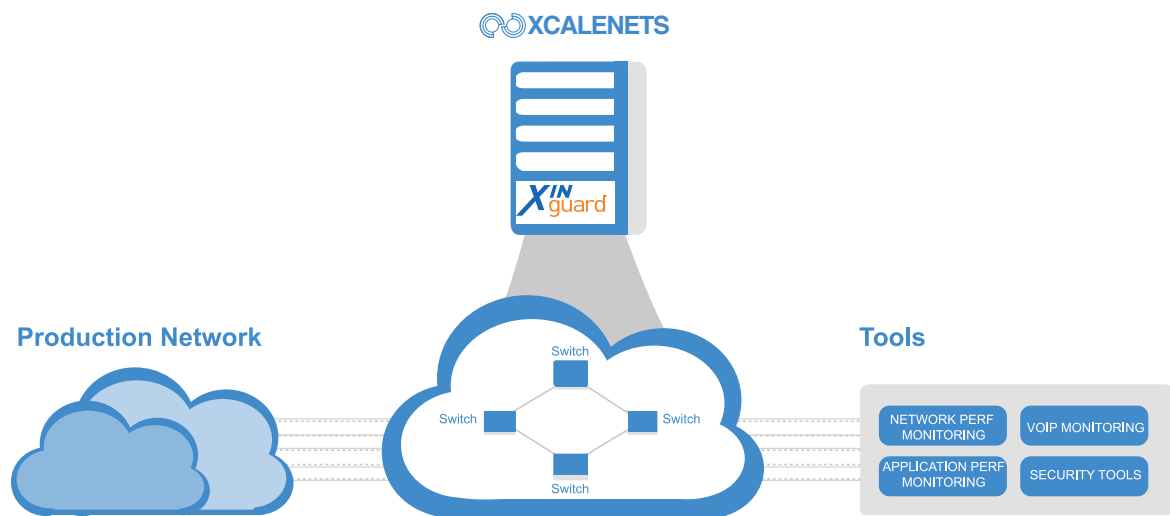


## Introduction

### Xcalenets Tap - a SDN-based network monitoring solution

Xcalenets Tap solves the challenge of scaling a network monitoring solution using traditional networking devices, using the new generation of flexible networking made available by Software Defined Networking (SDN). It has been adopted by large enterprises that require monitoring of massive traffic flow.



### ► Why monitor network traffic?

Many enterprises require a deeper visibility into their network traffic flow to assist/monitor the following:

- Compliance/security network.
- Performance/troubleshooting.
- Application performances.

### ► Challenges of conventional solutions

- High cost of conventional Matrix Switches makes scaling very expensive.
- Filtering and forwarding has to be statically configured for every matrix switch, making scaling complex.
- Conventional Network Tap solutions can be expensive, which causes companies to look for alternatives.
- Xcalenets Tap solution uses low-cost network switches with a SDN controller to allow for simple and flexible configurations of a packet monitoring and analysis system.

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# FEATURES

## ▶ Configuration

- GUI : Provides a web-based GUI for management of all configurations and functions.

## ▶ Traffic Tap

- One-to-one connection.
- One-to-many connection.
- Many-to-one connection.

## ▶ Packet filtering

- Filter based on L2~L4 information.
- Check overlapping policies scaling complex.

## ▶ Network Design

- Traffic Load Balance
  - Current available bandwidth based load balance.
- Loop prevention
  - Built-in logic prevents creation of network loops. This feature supports one-to-one, one-to-many and many-to-one connection policies.
- Scalability
  - Xcalenets Tap can support up to 20 switches and 1000 edge and delivery ports.
- High availability (Advanced function)
  - Xcalenets Tap supports high availability through controller redundancy.

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## ▶ Security and Operations

- Role-Based Access Control (RBAC) for users
  - Supports authentication and authorization.
  - Roles: Viewer/Operator/Super User.
- Logging
  - Xcalenets Tap provides system logs as well as user audit logs.
- Configuration file backup
  - Provides ability to backup configuration file.