

Superna Company Background

300 Terry Fox Drive, Unit 700

Kanata, ON Canada K2K 0E3

www.superna.NET

superna

Company Profile

- Software applications and services for the Information, Communication Technology (ICT) market
- World-class Storage-WAN Interoperability certification, testing and software development facility
- Custom application development and flexible partnership models to help companies evolve their network planning and management systems
- Innovator in the use of emerging Cloud technologies and services for telecom and storage equipment manufacturers
- Customers include telecom and storage equipment manufacturers, service providers and enterprises
- The company is privately held and based in Canada

Mission



Superna is committed to delivering advanced optical network planning and management solutions to enable telecom and storage equipment manufacturers to significantly improve optical network planning, interoperability, network insight and enable product sales.

Superna solutions focus on creating added value for the optical network with efficient optical design, rapid root cause analytics and enabling Encryption as a Service on the optical network.

In doing so, Superna solutions help to reduce operational costs and improve business agility.

Improved Network Insight and Analytics

Superna Product and Service Practices

Services

Storage network WDM interoperability certification and testing lab

Storage Interop configuration management validation

Test automation support for telecom equipment manufacturers

Products

EMC Ionix plug-ins for optical networks

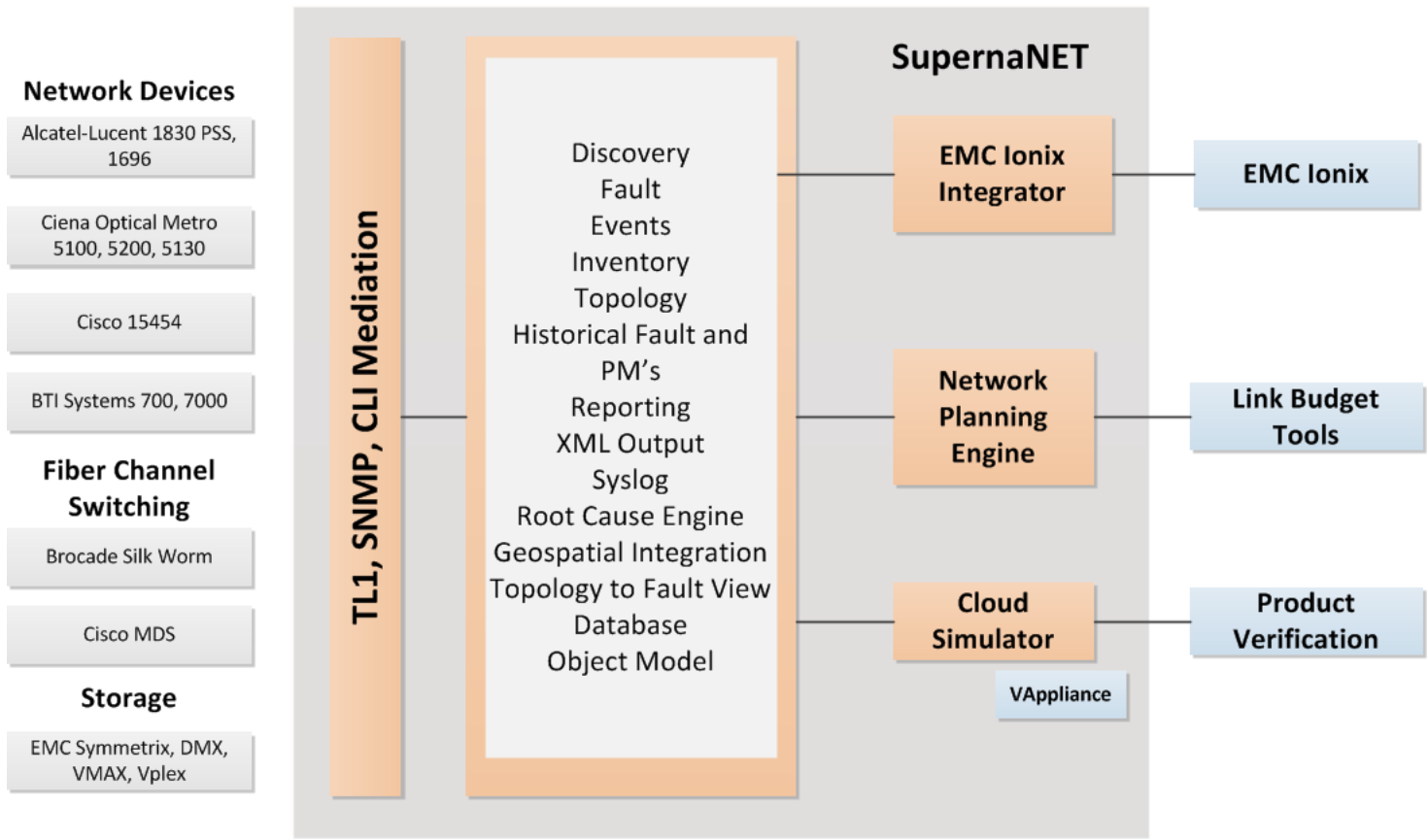
Automated planning library for optical and network planning tools

Key management solutions for optical and packet encryption devices

CloudSim virtual appliance to simulate large scale optical networks

Best in Class Solutions for Development, Verification and Certification

SupernaNET Architecture



Storage Networking Interoperability

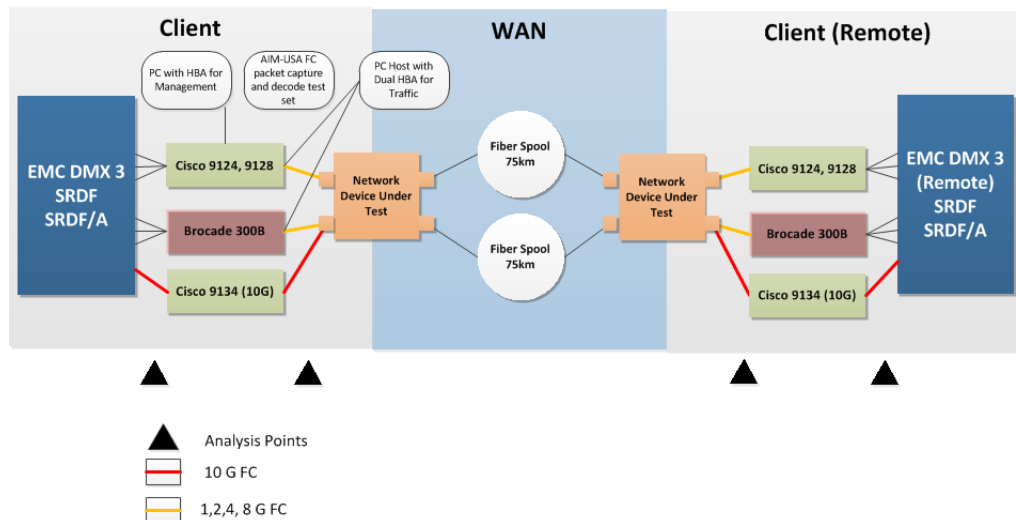
- For Telecom and Storage Equipment Manufacturers who need to **Certify** that their systems will interoperate over distance networks, **Superna** is a storage distance networking certification and testing solution provider that delivers a complete interoperability service and event and correlation root cause software tools.
- Unlike the current business model that requires equipment manufacturers to heavily invest in infrastructure and personnel, we offer a fully endorsed and rapid certification service to EMC global standards. This is complemented by a hosted database and software solution post-certification to minimize on-going costs.

SupernaNET: Storage Networking Interoperability Practice

- Superna has over 25 years of combined domain knowledge on testing and designing wide area fiber channel networks for disaster recovery
- Fiber channel over SONET/SDH, IP, Ethernet with buffer credit reach extension design review consultation
- EMC and Brocade certification service to design, execute and streamline EMC pre-certification testing requirements for eLAB certification (eLab Entrance Criteria Testing)
- Storage Interop Lab with EMC Storage, Cisco and Brocade devices

Benefits

- Undertake FC testing by leveraging Superna lab, resources and domain knowledge
- Direct assistance to design team
- Reduce the time to validate FC network solution and post deployment issues
- Secure EMC eLab and Brocade Data Center Ready certification
- Consultation on compliance with ANSI standards
- This service is targeting equipment vendors or Enterprises that require
 - EMC eLab Entrance Criteria testing and process/project management
 - SAN network and storage replication domain knowledge
 - Proof of concept customer testing
 - Customization to support EMC Ionix



CloudSim

What is CloudSim?

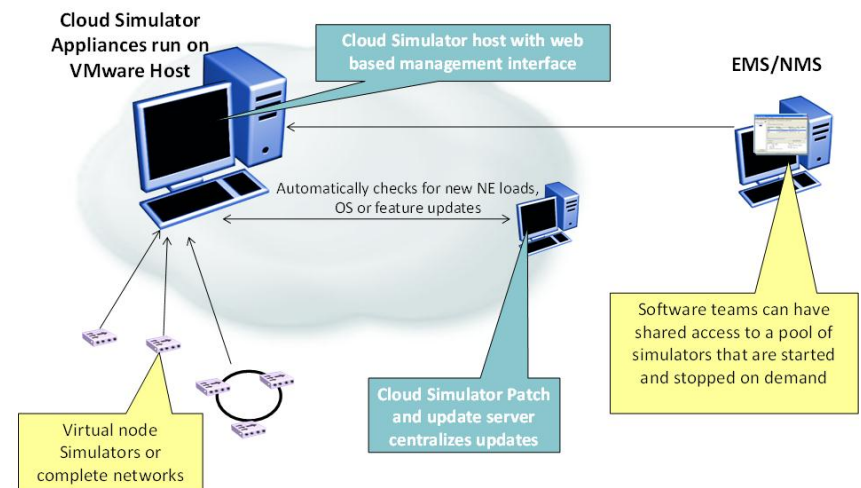
- A virtual appliance built as a VMware appliance that runs on any platform that supports OVF or OVA formats

Features

- One simulator per OS instance with **QOS** reservation per simulator for guaranteed long running tests
- Centralized **distribution** and software push of simulator software updates over the Internet or Intranet
- **Cloning** operation allows simulators with configurations to be cloned with exact TID, card population and connections
- **Pause mode** – allows a configured simulator to be paused restarted in the exact same state
- **Archive mode** – allows the long term storage of a **virtual NE** or **virtual network** of NE's to a disk file that can be exported and run on any physical host
- **Virtual Network** – provides the ability to create a complete network of nodes of any NE type PSS36/32/16/4, including NE version number.
- **Version** control of CloudSim images
- **Conversion** – allows a simulator to be booted as a network element node and saves database changes while switching between node types
- **Simulator Software Selection** – allows selecting the version of the NE's simulator at boot time

Benefits

- **Centralized** console to **manage, monitor** and **deploy** virtual CloudSim appliances
- **Increase** testing efficiency
- **Reduce** management costs and schedule impacts from insufficient NE or networks to test against
- Simulators can be created in **minutes** versus **hours**
- **Global** software updates simplifies geographic dispersed development team support
- Enforces **Consistency** that all test teams are using the same simulator version
- **Lower** management costs with Superna's **CloudSim** virtual appliance



Partnerships



EMC Ionix



Business Partner



BROCADE



Contact Superna



Head Office

300 Terry Fox Drive, Unit 700
Kanata, ON Canada K2K 0E3

Tel: +1-613-729-1100

Fax: +1-613-729-1108

www.superna.NET

For information please email:
sales@superna.net

For more information on Superna visit us at www.superna.net.

And on several social networking sites:

- The Superna Blog can be found at:
<http://supernanet.wordpress.com>;
- <http://www.linkedin.com/companies/856558>
- <http://www.facebook.com/group.php?gid=360838739856&ref=ts>
- <http://twitter.com/SupernaNet>

