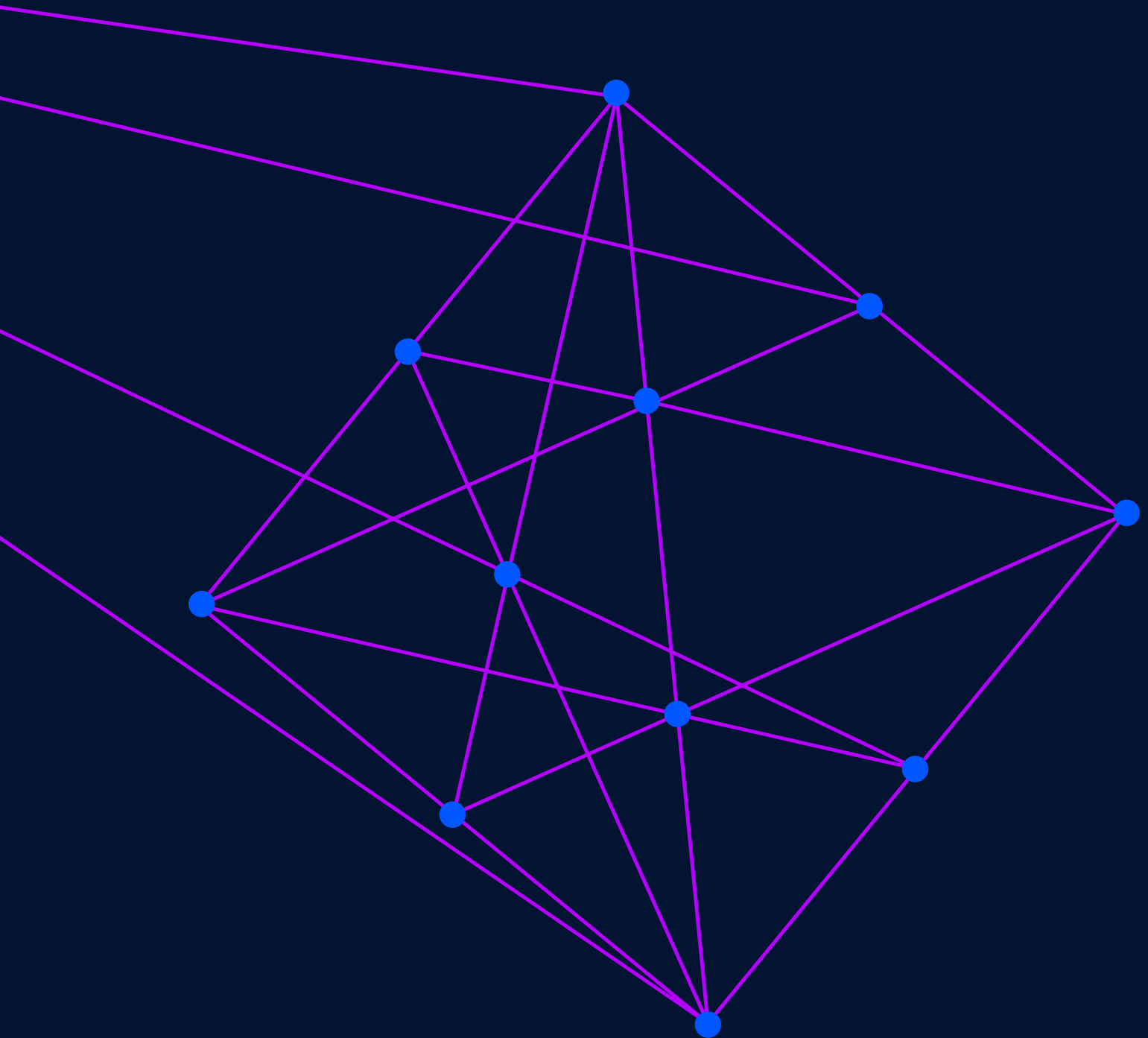




**THE ELASTIC NETWORK**



# **ECI COMPANY PROFILE**

# THE ELASTIC NETWORK



In today's world, **CHANGE** is the only constant.

- Customers change
- Technology changes
- The market changes

To survive - you also need to change...

**But to EXCEL - you need to change swiftly, seamlessly and profitably.**

**You need to be ELASTIC**

*"Organizations that are adaptive, are the ones inventing the future."*

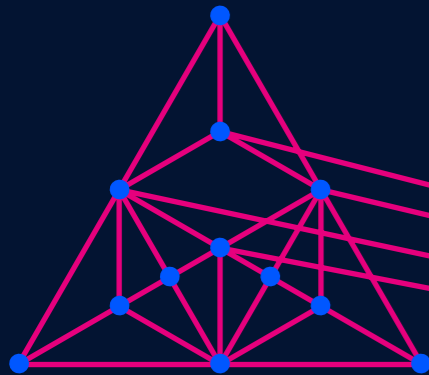
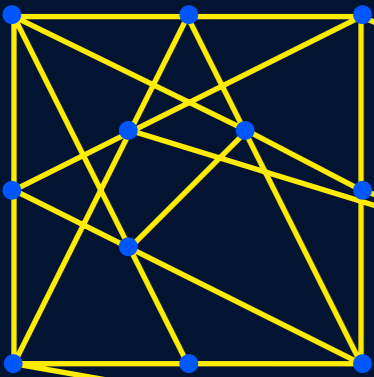
- The Elastic Enterprise

Companies that are smart enough to reinvent themselves will own the future. This is why ECI has developed the ELASTIC Network - so that you can quickly adapt to the rapidly evolving market.

ECI's ELASTIC Networks scale and operate efficiently using open, secure and vendor agnostic technology. For companies who want to reinvent themselves, ECI offers an elastic network that changes along with them.

**JOIN THE ELASTIC NETWORK REVOLUTION.**

# ELASTIC SOLUTIONS



## ElastiNET

Supreme Service Elasticity

**FOR SERVICE PROVIDERS OF ALL TYPES:  
FIXED, MOBILE, TRIPLE/QUADRUPLE PLAY**



## ElastiGRID

Transparent Network Transition

**FOR UTILITIES: POWER, GAS, TRANSPORT,  
MILITARY AND DEFENSE**



## ElastiCLOUD

Beyond Cloud Connectivity

**FOR CLOUD SERVICE PROVIDERS  
AND DATA CENTER OPERATORS**

**ECI**

# TECHNOLOGY PRINCIPLES



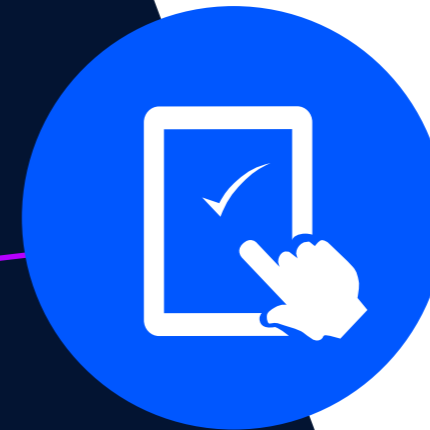
## UNLIMITED

Transmission and switching capacity to handle surging demand for bandwidth and new traffic patterns created by cloud computing, video streaming, and the Internet of Things (IoT).



## EFFICIENT

Network implementation to ensure network flexibility and profitability while meeting new service demands anywhere, anytime.



## OPEN

Network programmability and open APIs to create and enable new revenue generating applications.



## SECURE

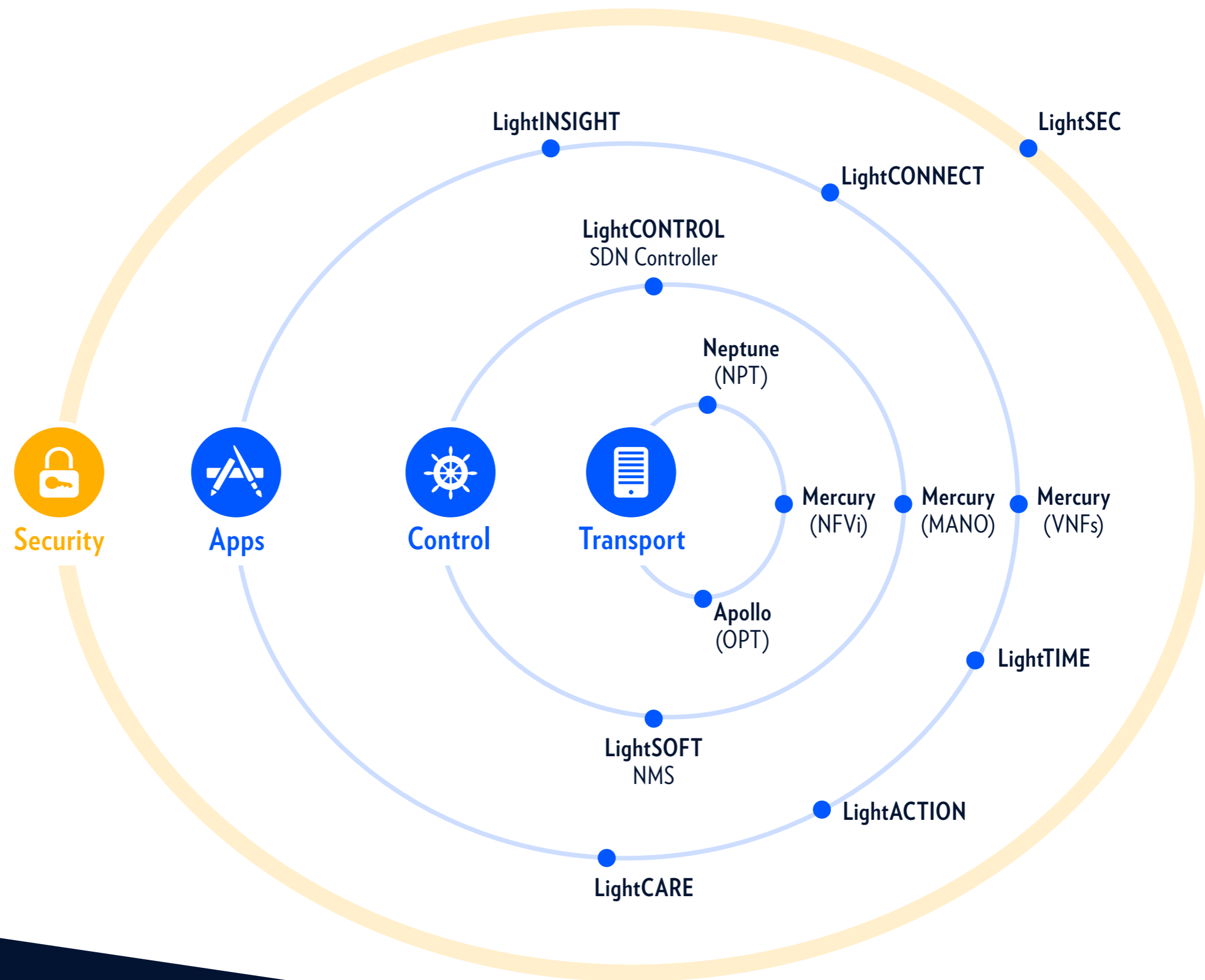
Operation infrastructure to secure services and ensure their integrity.

# SmartLIGHT™

## ECI'S PORTFOLIO FRAMEWORK

SmartLIGHT is ECI's portfolio framework for delivering the elastic network. Made up of four interconnected functional blocks:

- Transport Hardware Layer
- Control Software Layer
- Applications Software Layer
- Security Layer, which encapsulates the portfolio by providing holistic network security.



Interfaces open to:

- OSS/BSS/Orchestration
- Third-Party Apps
- Service & Network Databases

# SECURITY

## LightSEC™ - Trusted, Secure Communications

Leveraging ECI's expertise with best-of-breed security solutions, LightSEC was developed to be comprehensive, flexible and centralized.

The LightSEC solution is comprised of three pillars:

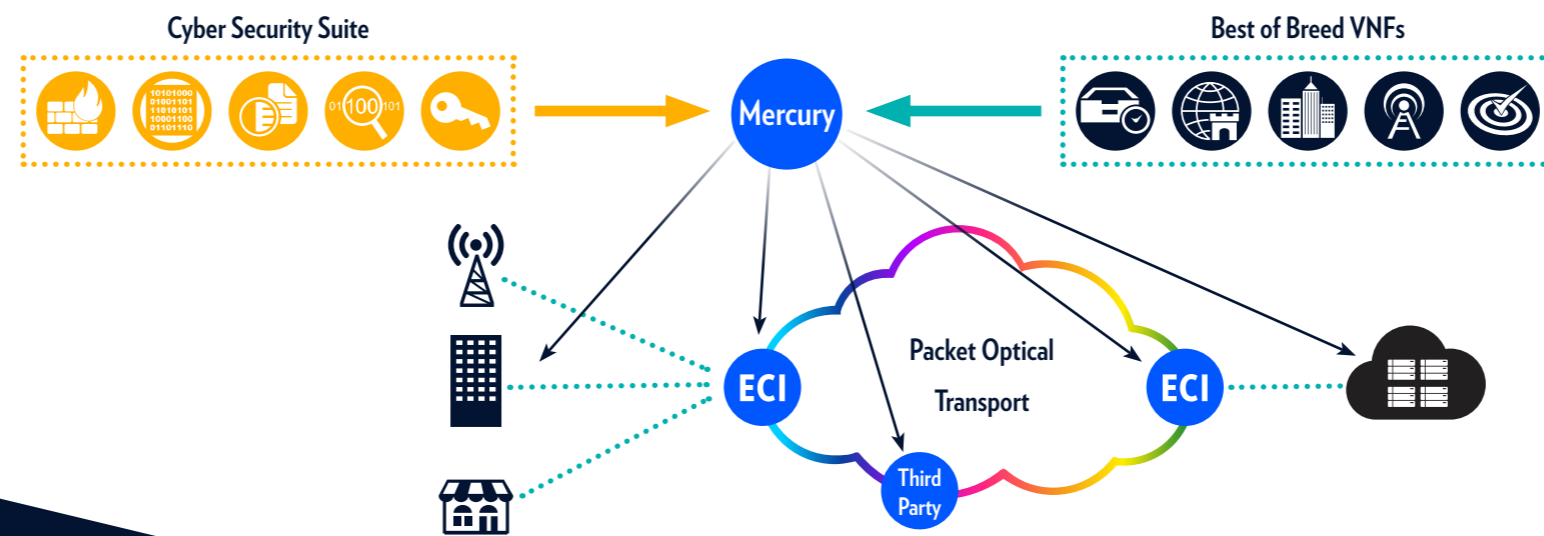
- **LightSEC SHIELD™** - a rich set of mature and innovative security mitigation functions developed in line with the needs of today.
- **LightSEC COMPASS™** - a comprehensive threat management platform that features an aggregated view of calculated threats from the entire cyber security suite.
- Virtualized delivery via ECI's **Mercury™ NFV solution**.

# NFV

## Mercury™ - Best of Breed Service Agility

Based on a commercial off-the-shelf (COTS) platform, Mercury NFV platforms run a rich library of ECI and third-party virtualized network functions (VNFs) and comes with full Management and Orchestration (MANO) support.

The perfect fit for your application needs, Mercury can be deployed at the mobile edge, on customer premises, in the data center, and even at the network core. Mercury is available as a standalone module, and for highly-integrated solutions, as a blade within the Neptune metro packet transport system.



# APPS

## LightAPPS™ - SDN Applications

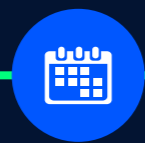
LightAPPS' advanced capabilities enable you to:

- Quickly introduce new, premium services
- Automate network services
- Increase network efficiency and visibility



### LightCONNECT™

**Bandwidth on Demand**  
Dynamic service provisioning for bursty applications



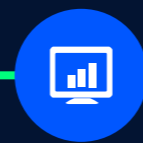
### LightTIME™

**Service Scheduling**  
Guarantee resources with simple service provisioning



### LightCARE™

**Proactive Health Monitoring**  
Pre-empting faults through online analytics



### LightINSIGHT™

**Network Analytics**  
Consolidated network analytics of usage and performance

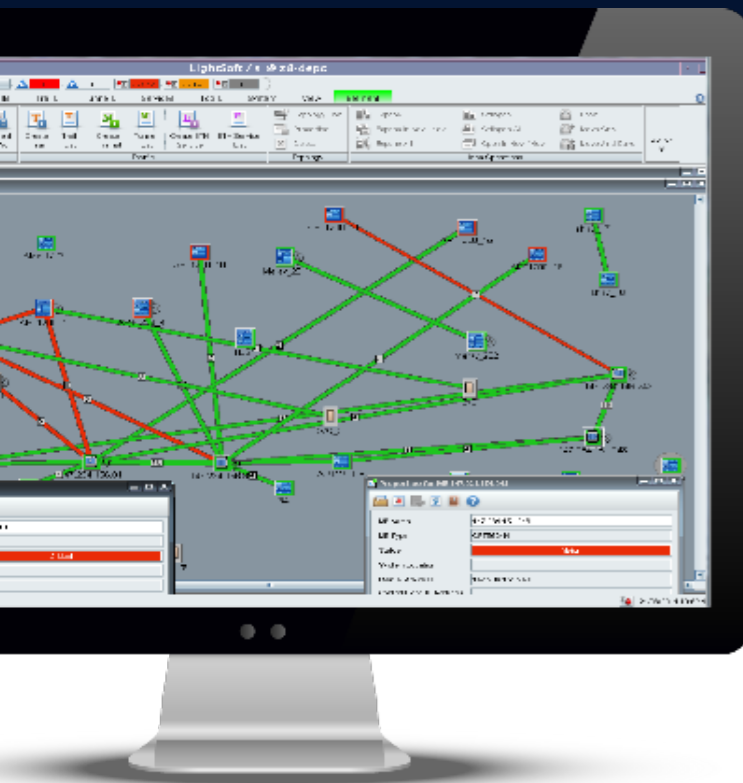


### LightACTION™

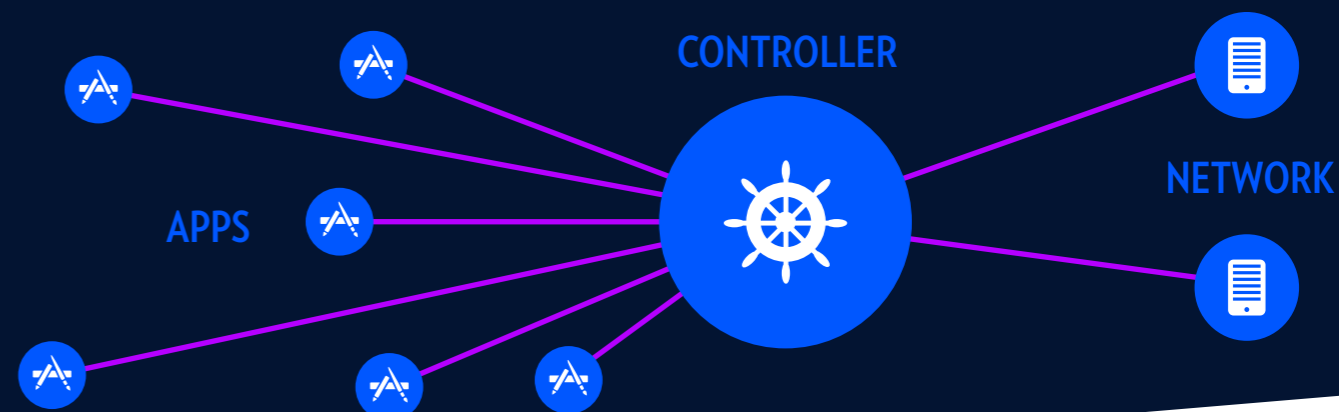
**Network Programming**  
Automate responses to network events based on pre-defined heuristics

# CONTROL

**LightSOFT®** is ECI's industry-leading network management system (NMS), providing unified multi-layer, end-to-end network management, through an intuitive, point-and-click user interface.



**LightCONTROL™** is ECI's carrier-grade SDN controller for wide area networks, featuring a centralized, unified, multi-layer control plane. This controller enables network optimization and real-time programmable control logic.



# TRANSPORT

## Packet-Optical Transport

ECI's Packet-Optical and Carrier Ethernet products are the foundation of our SmartLIGHT solutions. Led by the industry-proven Apollo (OPT) and Neptune (NPT) families, ECI's solutions provide Layer 0 through Layer 3 service coverage, extending seamlessly from the metro access, through the regional core, to the long haul.

Unlimited



### Apollo (OPT)

- **Effortless Scalability** - software upgradeable clients to 100GbE
- **Transmission Speed** - 100G, 400G and up to 1T
- **Switching Capacity** - Up to 16T

### Neptune (NPT)

- **Speed** - from 1GE to 10GE and 100GE
- **Capacity** - from 5G demarcation to 2T core
- **Technology** - from TDM to MPLS, IP and OTN

Efficient



- **Flexible** - L0 to L2.5 convergence
- **Carrier Ethernet** - packet integrated with optics.
- **Thousands in Savings** - with our highest density, lowest power rack

- **Packet-Optical Convergence** - L0 to L3
- **Multi-Service Support** - CE2.0 certified, Packet, TDM, λ, Storage, Video
- **Flexible Architecture** - Modular and scalable

Open



- **LightApps™ Premium Services** - SDN applications over current & future SDN networks
- **Effortless Provisioning and Management** - Point and click setup with real time, performance feedback

- **LightApps™ Premium Services** - SDN applications over current & future SDN networks
- **End to End Visibility** - Extensive OAM
- **Management and Control** - Intuitive point and click GUI based NMS

Secure



- **Highest Level Encryption** - with AES-256 GCM
- **Super Secure Management Paths** - local, EMS and NMS
- **Highest Availability** - ASON-service and WSON-wavelength routing

- **Communication** - Secure data and management paths
- **Service** - Pluggable NFV based security engine
- **SLA** - Carrier grade service availability and performance

# A TRADITION OF INNOVATION

Since its foundation, ECI has promoted innovation and technology leadership.

## GLOBAL PRESENCE

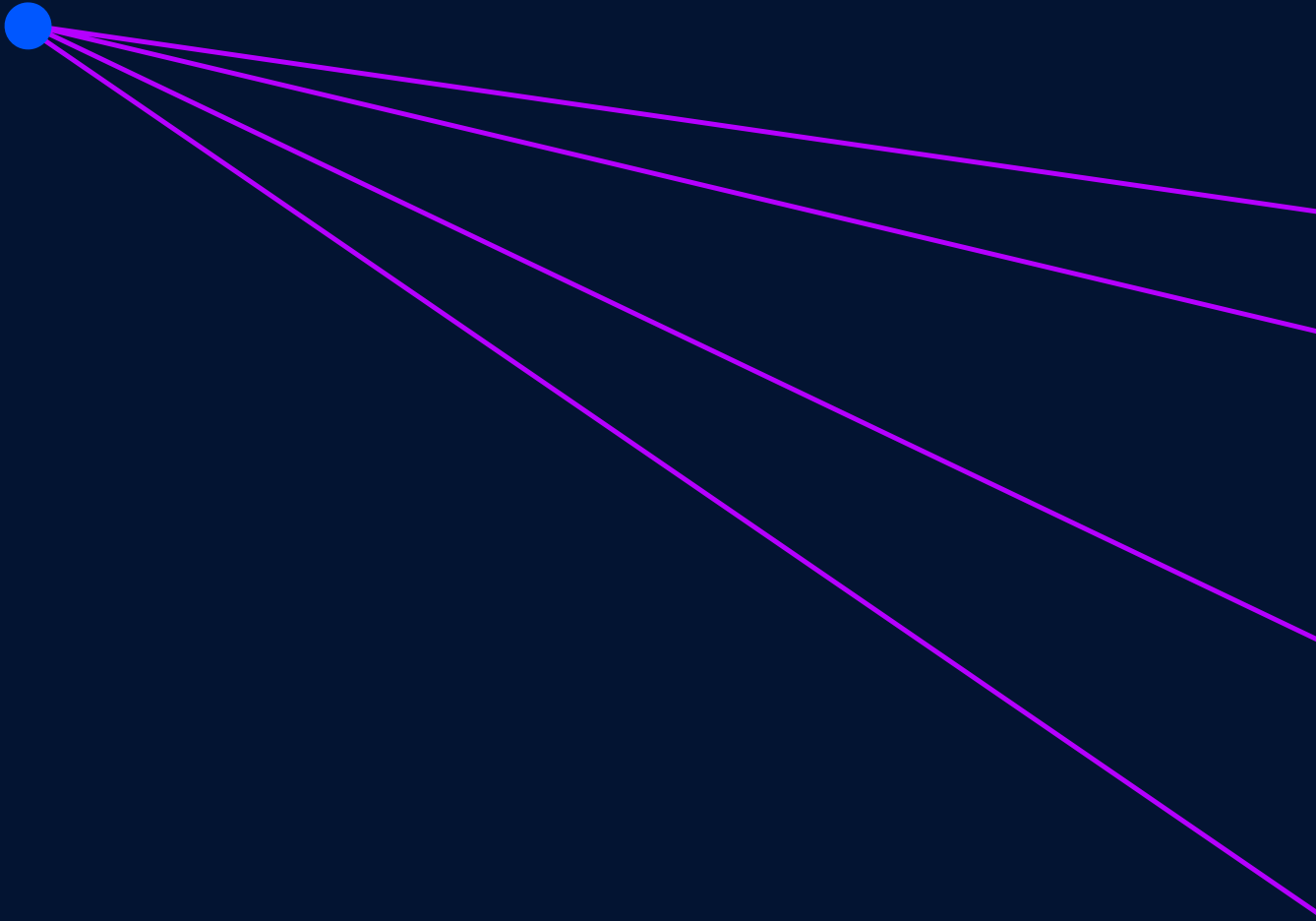
ECI maintains a notable reputation as a leader in the network market, partnering with hundreds of leading communication service providers in 70 countries across the globe. All will attest to the excellent performance of our products and our experience in network planning, optimization and operations. Today hundreds of millions of people around the world rely on ECI for their daily communication needs.



1961 Established as a pioneer in the field of advanced electronic equipment

- 1961 Established as a pioneer in the field of advanced electronic equipment
- 1977 Telephone line doubler enabling two conversations over one phone line
- 1988 First to market DCME equipment
- 1993 First to market SDH
- 2000 First to market optical rings
- 2001 First to market MSPP
- 2003 First to market CWDM
- 2006 First to market 3rd generation WSS ROADM
- 2007 First commercial P-OTS shipments
- 2009 Pioneer DSM/ vectoring solution
- 2011 Introduced Apollo
- 2012 First to introduce 100G coherent links with SD-FEC
- 2012 Introduced Native Packet Transport with MPLS-TP
- 2014 Successful One Terabit optics trials
- 2015 Introduced LightAPPS and LightSEC
- 2016 Launch of Mercury and a variety of VNFs





[www.ecitele.com](http://www.ecitele.com)

## ABOUT ECI

ECI is a global provider of ELASTIC network solutions to CSPs, critical infrastructures as well as data center operators. Along with its long-standing, industry-proven packet-optical transport, ECI offers a variety of SDN/NFV applications, end-to-end network management, a comprehensive cyber security solution, and a range of professional services. ECI's ELASTIC solutions ensure open, future-proof, and secure communications. With ECI, customers have the luxury of choosing a network that can be tailor-made to their needs today – while being flexible enough to evolve with the changing needs of tomorrow.

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