# eye.Io

by **LivingObjects**
Network Performance Management

Designed to simplify network performance management

# Ultimate interactive platform for Application-aware IWAN Management

## Trade connectivity for productivity

Today, digital challenges are becoming critical challenges for enterprise business. Companies are now relying on the performance of clouds and networks. While the frontier between business and leisure applications have never been so blurred, both of them have to be managed by the end-user. Bad performance may impact enterprises that have to be productive, agile and cost-effective while providing the best experience for their employees anytime, anywhere. Consequently, service providers have to adapt and meet their customers' growing needs. The telecom market is becoming increasingly more competitive; therefore, Service Providers have to differentiate by providing value-added services in a cost-effective manner.

So, here we are, facing a crucial digital transformation. Can I trust my network? How can I control it and take the right decisions? The first step of Network performance management is to optimize the WAN without compromise. Fortunately, there is a solution. The Cisco IWAN solution allows the WAN to become an ally. So, this is means:

- Augment your network with lower-cost connectivity options, like Internet
- Realize the cost benefits of provider flexibility and higher WAN utilization
- Offload the corporate WAN with application optimization, intelligent caching, and highly secure direct internet access

Cisco IWAN is a comprehensive set of traffic control and security features for the WAN allowing your MPLS network to grow using internet and other lower-cost links while improving performance, security and reliability.

## Keep an eye on your WAN

Optimizing your WAN is great. Monitoring it and taking decisions is even better.

**eye.lo** is a multi-tenant platform optimized for Cisco IWAN that delivers a powerful application-aware management tool to service providers and enterprises. Designed to be simple, **eye.lo** makes technology complexities more intelligible and so increases the value perception of IWAN services.

Easy to install, easy to deploy, there is no need to install an additional box. **eye.lo** is optimized for Cisco IWAN features embedded in Cisco routers:

> **AVC: Application and URL recognition (Nbar2, http extract)**
>
> **PfR: Hybrid network**
>
> **WAAS: Compression management**

# So, how does it work ?

## It's quite simple.

**eye.lo** is able to collect metrics from Cisco IWAN features and display it through an intuitive web interface. **eye.lo** is a multi-tenant, multi-vendor collection platform. It can gather data from both the legacy Network Elements, and the newly installed appliances. It supports various transaction protocols such as snmpV1/2/3, Telnet, SSH, TL1, NetFlow/IPFix.

**eye.lo** synchs with Service Provider provisioning workflow every night. New customers are added and metrics from new CPEs are collected automatically. Data is available for customers the next morning.

Service provider administrators, operations team and end-customers access **eye.lo** through supported web browsers using https as the default transport protocol. **eye.lo** enables direct authentication (internal or external user account management) or redirection to an external identity server (Single Sign On workflow).

### 1 Deploy Cisco IWAN

Advanced metrics without any additional probe

- Nbar2: App. recognition
- ART: Response time
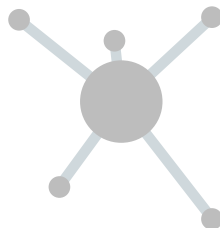- Media metrics application optimization
- WAAS: acceleration
- PfR Hybrid network

### 2 Collect data

- Application recognition (Nbar2): ☑
- URL recognition: ☑
- TCP Performance metrics: ☑
- Media performance metrics: ☑
- PfR event: ☑
- PfR measurement: ☑
- WaaS compression ratio: ☑

### 3 Make the data relevant with eye.lo

Access through a web portal from anywhere & any terminal

- Network metrics visualization
- Alerting
- Path visualization
- End-user customization

# Service Providers: Bring value to your customers

Easy to deploy, easy to customize and easy to manage, **eye.lo** is the ultimate Cisco IWAN monitoring tool for multi-tenant large networks.

**1 customer deployment is 1000 customer deployments:** Easily integrate **eye.lo** into your work-flow and simply admin a massive deployment of application aware features in a single instance.

**Standardize your managed services:** Use default templates from **eye.lo** or ask experts from your team to build Home, Dashboard and Report templates. Improve easily knowledge transfer from experts to newcomers.

**User rights policy based on customer profiles:** Securely manage specific set ups for each end-users. Define customers' profiles, grant rights and resources. Let end-users access data they need regarding their marketing profile.

**Made for large Networks.**
- High scalability, high availability
- Massive, cost-effective & roll-out
- Multi-tenant right management
- Easy extranet integration
- Proprietary fast access database

## 25 % attachment rate
Sales team can easily understand and master the **eye.lo** solution and increase the value perception of Cisco IWAN fea-tures. Service Providers get an in-depth knowledge of their business customers and propose the level of service they need for their end-to-end IT infrastructure. They can make their unified and simplified network management a competitive advantage.

## 10x more used than legacy NMS
**eye.lo** provides default workspaces based on service profiles and lets end-users customize their own environment. By implementing their own workspace, customers are fully involved they add their own value to the tool to shape it to their own requirements. More data available and more customization capacities make **eye.lo** more usable than other NMS.

## 15% additional revenue
Moving connectivity services from a bandwidth-centric to an application-performance-centric model, allows Service Pro-viders to be closer to their business customers' daily concerns. It dramatically enhances the value perception of VPN and connectivity services.

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# End-users: Get a unified view of your network and master it.

From high-level, executive overview to expert visualization, you can browse their Network to quickly assess end-user experience and end-to-end issues.

**Home Page is your starting point.** A simple and synthetic way to display your key performance indicators in near real-time. Optimal top executive view.

**Drill down your end-to-end infrastructure.** Browse your network with use case centric dashboards. Gain an in-depth understanding of where your problems started.

**Leverage your hybrid Network.** Visualize how Cisco Pfr works with synthetic dashboards and end-to-end visualization. Challenge primary and secondary link performance.

**Publish visually attractive Reports.** Create and automate in few clicks clear reports. Schedule daily, weekly health-check or monthly synthetic visualization of your network.

**Detect problems.** Get an alert when your network elements and applications are out-of-policy. Drill down to network health-checks to understand why.

**Customize eye.lo to your infrastructure.** Define your own business applications In addition to the NBar2 library. Create sites groups. Specify thresholds.

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**No more questions. Get answers.**
- What is my network used for? Who is using my network? And how?
- What is the QoS for my business-critical applications?
- Why is my application running slowly? Where is the delay?
- How do I know if my business application is on the right network?

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## Your WAN will have no secrets for you

**eye.lo** gives you the capability to build use case centric dashboards based on rich data coming from Cisco IWAN features. You build your own KPIs based on raw counters. You mix these performance metrics in a same dashboards to cross information and get a comprehensive view of what you are looking for. For example, you need a generic dashboard to check business critical applications. Mix network level KPIs coming from snmp polling and PfR (load, TCA event, route changes) with Application KPIs coming from AVC (Application & Network delays, sessions, compression ratio) and you get in one view the root-causes of quality issues. **eye.lo** embedds default dashboards which already leverage years of experience in IWAN features and networks management.

## Go faster & deeper in your hybrid network troubleshooting

Cisco PfR features helps you optimize the network cost while improving security, quality and end-user experience. Also you need to understand how it works when you have an issue or need to improve the policy embedded in Master Controller. **eye.lo** provides synthetic dashboards to visualize top bad performers (Site, Networks) and an end-to-end visualization to help you understand in details where your traffic goes, using which DSCP and why.

## Automate your network management & Improve productivity

IT managers can shape each and every **eye.lo** features as their convenience to automate daily management tasks. Using powerful performance metrics provided by IWAN in daily health-check, they detect slow deterioration of their Network before end-users' complain. By reducing the complexity of managing the WAN, IT managers will gain precious time and they will be able to put more energy into optimizing their network.

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# How to install eye.lo ?

## Requirements
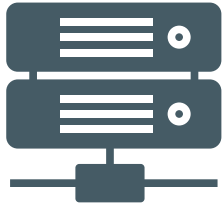


### Hardware

**eye.lo** can be deployed on a single server or a distributed infrastructure. **eye.lo** I/O is optimized for random data access. Data storage need to be implemented on physical machine with SSD. The other components can be virtualized.

### OS

Any Linux distribution (Debian, Red-hat, Ubuntu, Suse, CentOS) with Kernel version greater than 3.10. 3.16 Kernel is recommended for data access higher performance.

### Browser

Service providers administrators, operations team and end-customers access **eye.lo** through supported web browsers: IE 11, Mozilla firefox (latest), Google Chrome (latest), Safari (latest).

## Experts by your sides

Cisco customers purchasing the **eye.lo** solutions also need to purchase the respective support SKUs to be entitled to get support. The support or maintenance will be provided directly by LivingObjects.

- User and Administrator manuals
- Dedicated Web Portal for incidents, issues and queries on **eye.lo**
- Email communications with LivingObjects' single support contact
- Default FIFO management of the issues

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For more information, please visit:
**http://livingobjects.com**

Request a demo:
**demo@livingobjects.com**

General information:
**contact@livingobjects.com**

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