lytn

AIOps observability Platform for SD-WAN

Lytn.io

Solution Brief

the context

Enterprises use more and more complex Infrastructures using the concept of so-called virtual components, that includes SDN (Software-Defined Networking) latest technologies such as SD-WAN.

The digital infrastructure became lately an even more important asset of the Enterprise, so employees, partners, contractors could do more and faster. IT managers are then more and more required to provide both the executive team and Line of Business (LoBs) managers with a concrete visibility regarding the gains and pains users feel from the infrastructure which by the way is required to evolve almost on a permanent basis.

This visibility is today mostly extracted from traditional monitoring tools, requiring complex setup with probes and other systems that could also potentially introduce cybersecurity issues. Monitoring tools deliver technical KPIs (Key Performance Indicators) that require a strong technical background to convert them into meaning full information for non-expert people. Last the latest SDN infrastructures introduce some new issues in the use of those tools as they may not see/capture some parts of the traffic. Today many companies create indicators with spreadsheets re-using some of the KPIs in order to track their own indicators.

Conclusion ?

Enterprises need new solutions, delivering indicators that are meaningful for both IT and LoBs staff and help to anticipate changes therefore budget adjustments and associated actions for an agile digital infrastructure.

Solves two problems simultaneously :

- Deliver context-rich & end-to-end view that allows IT and LoB management to rapidly get visibility on the existing adaptability

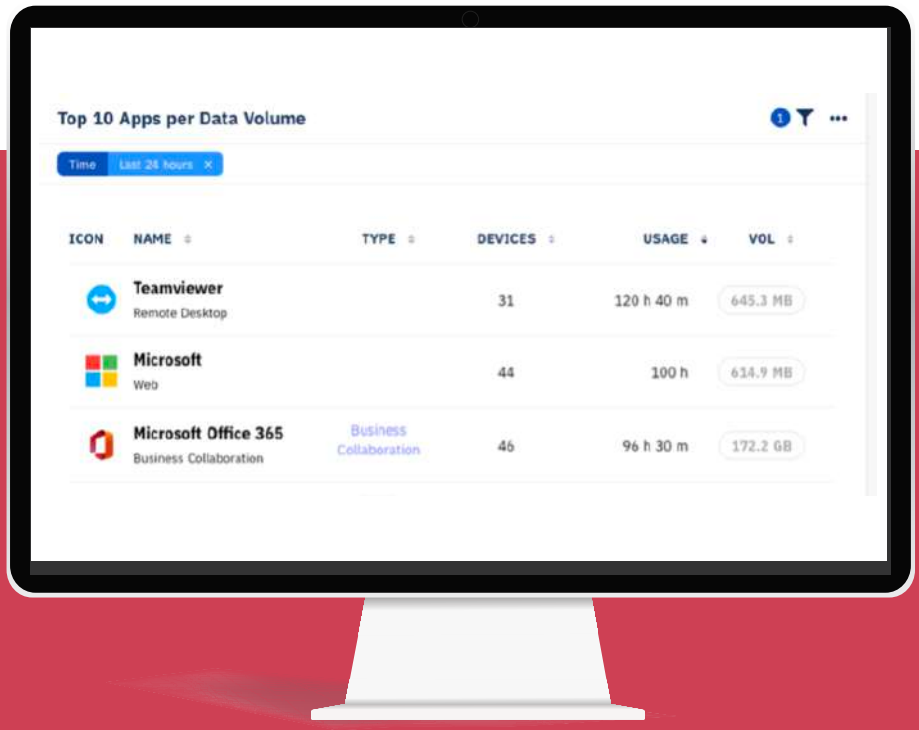
- Agility of the networking infrastructure to support the business.

Observability

lytn

Lytn has been designed to address all those challenges, provide meaningful information, on usage of the digital infrastructure, that can be inserted into reports, used for IT/LoB review meetings.

We call our Lytn product an *Observability platform*, and as it is using the very detailed information hidden inside an SD-WAN infrastructure, it has the capacity to deliver a new generation of indicators resulting from complex calculation & correlation of raw data about:



Sites

Users

Dispositifs

Applications

Service links providers

Users of the Lytn SD-WAN Observability Platform

They can then see much elaborated indicators (included in what are called *Components*) fine-tuned to their needs and that can ne assembled into groups called *Tabs*. *Tabs* are being grouped in a *Custom-Templates* that can be :

Shared among Users to improve experience. Each component can be exported (through a *channel*) for reporting inside any tool, and **tabs** can be shared across users of the Lytn SD-WAN Observability Platform, thus facilitating the task of people who only want to see results.

Sharing, Export/Import of those templates via Email to enable Lytn partners creating new *Templates* for their clients.

2 profiles are being proposed in version 1.0:

- IT user: has access to all parameters and *components*.
- Executive: has access to application and devices *components*

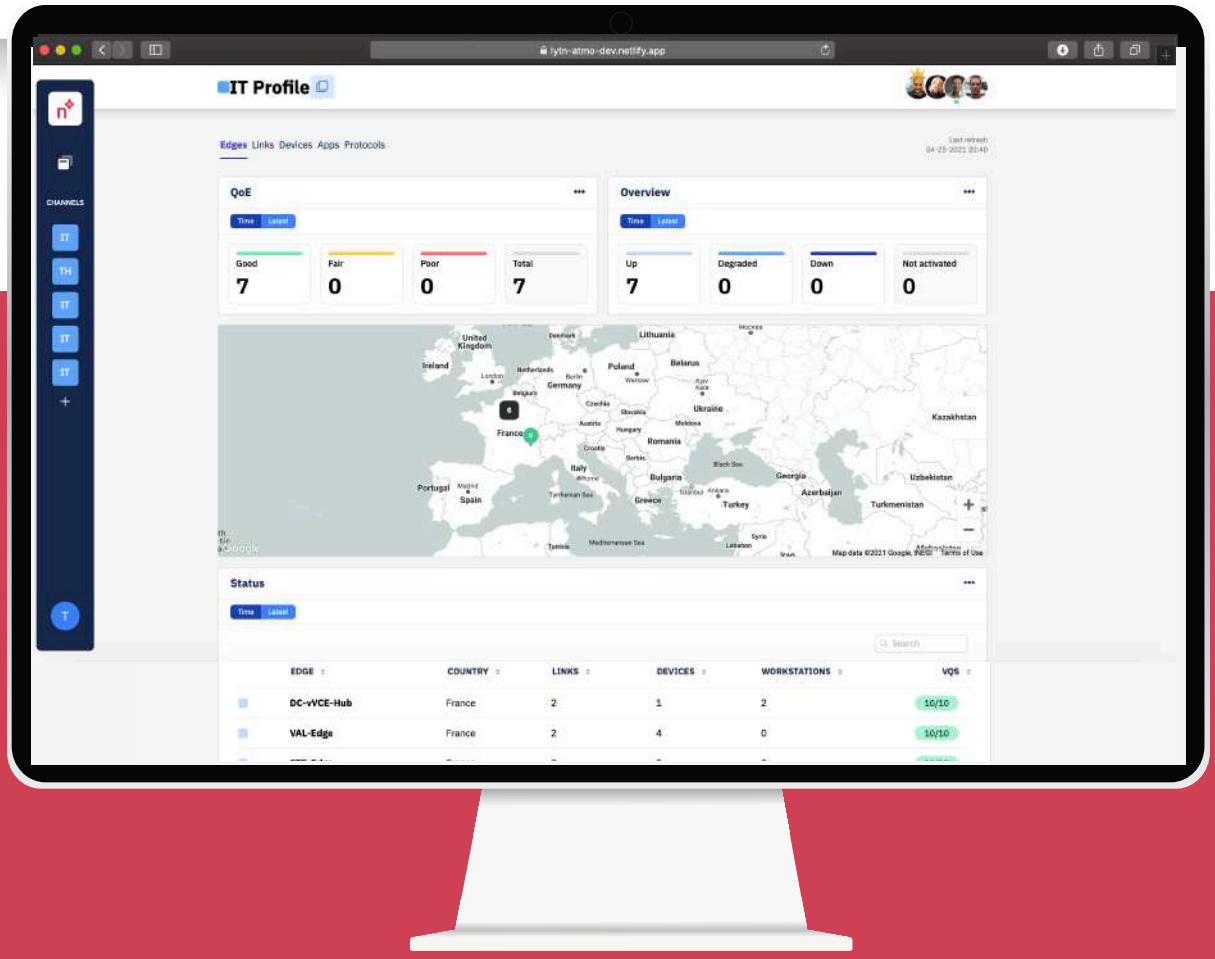
Supported versions for Release 1.0:

VeloCloud SD-WAN network	Version 3.4, 4.0
Browser for SaaS access	Chrome, Safari

Tabs & Components

can contain the following indicators related to an infrastructure:

Company Site	Global view of all Edge information including country, SP link names, number of links, devices connected & associated Quality of Service (LQS)

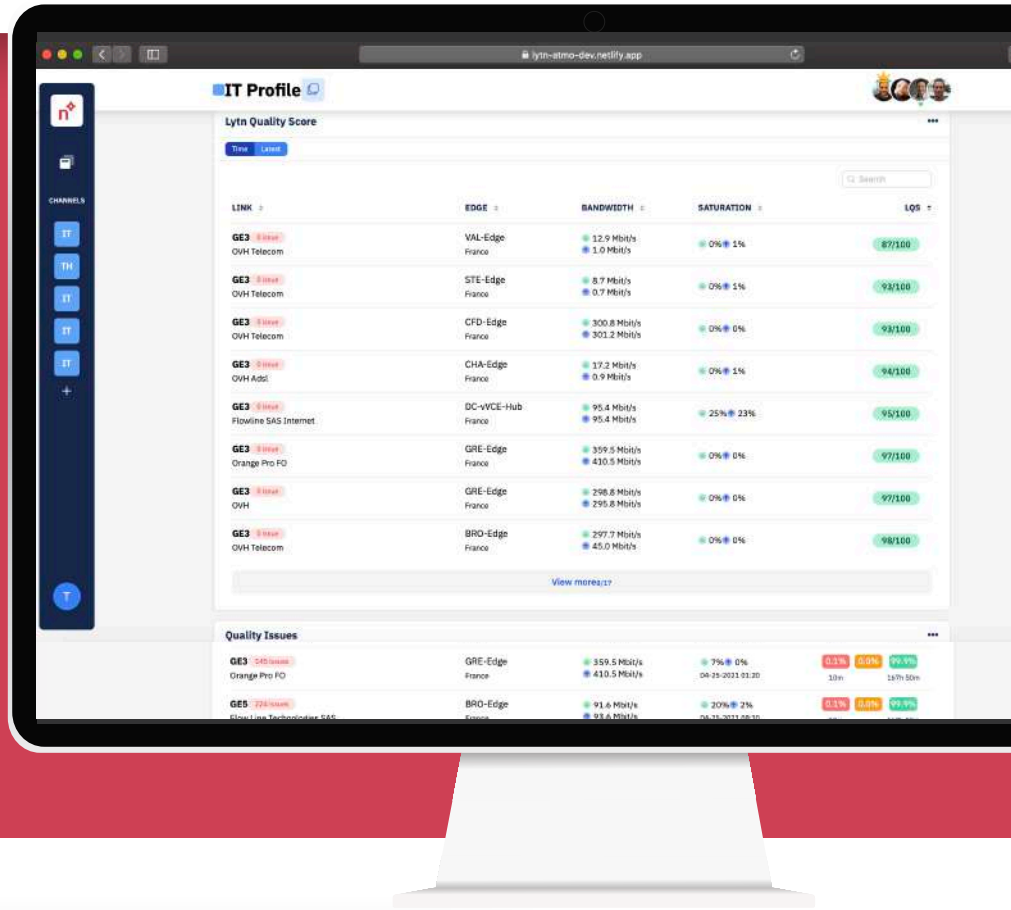


Note: *LQS* stands for “Lytn Quality Score” and is calculated for each SP link, it was designed to represent within a range from 10 to 100 the quality level of each individual link, with no average calculation.

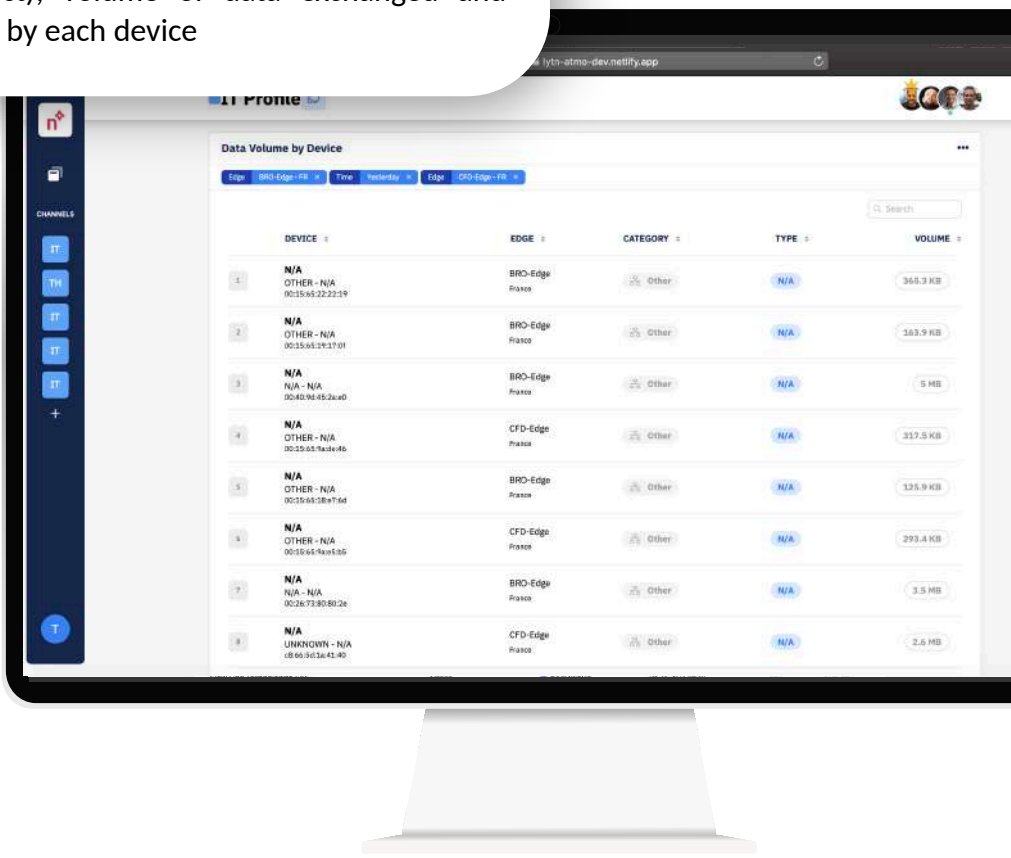
LQS is a score out of 100 which represents the most reliable evaluation of the quality of a link ; taking into account the following key link- performance parameters: Saturation, Jitter, Latency and Packet Loss.A new LQS score is calculated every 10 minutes, 100 is the most perfect score, 10 the worst score, 0 means Link is Down.

LQS is a non-parametric score, there is no average calculation inside its core formula. It was designed so that there could be visibility on the « smallest » quality-impact event on a link, even several days, weeks after it occurred.

Links	Name of the attached Edge, peak value of saturation in % to/ from, bandwidth, LQS & detailed split of LQS over last 30 days

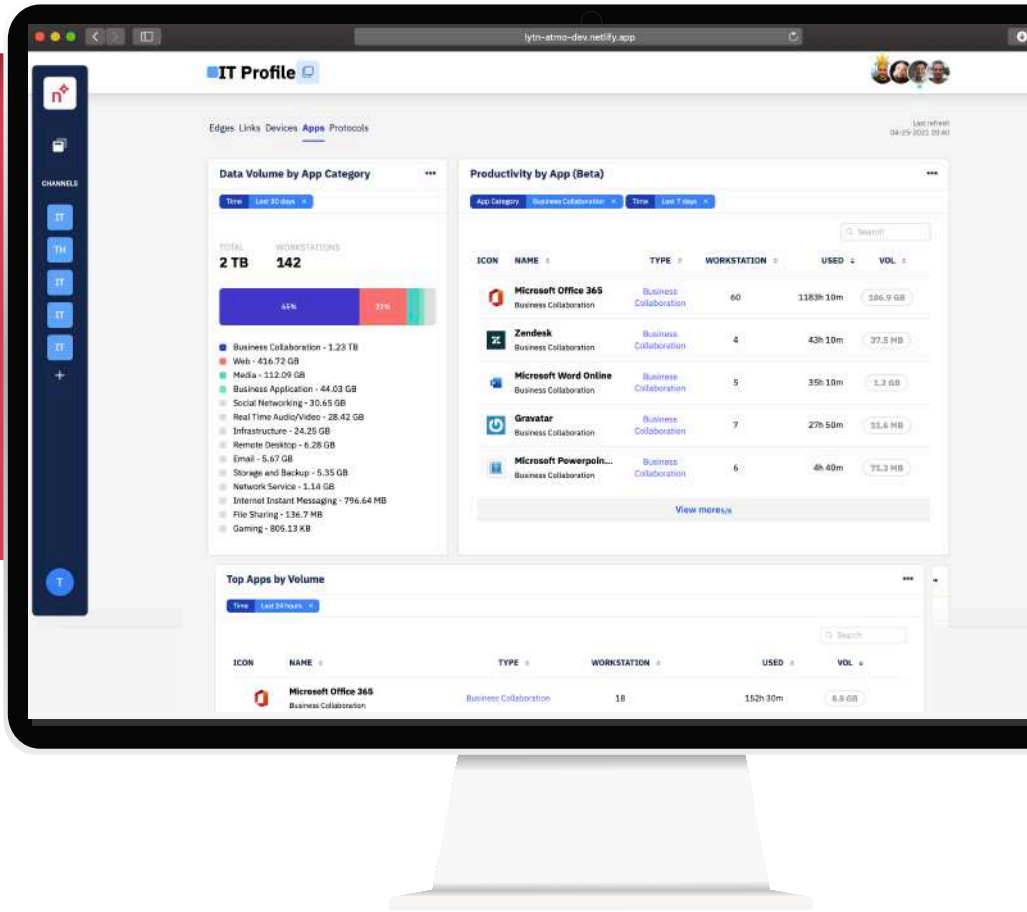


Devices	List of devices for an Edge, group of Edges, per category (human vs. object), volume of data exchanged and Applications used by each device



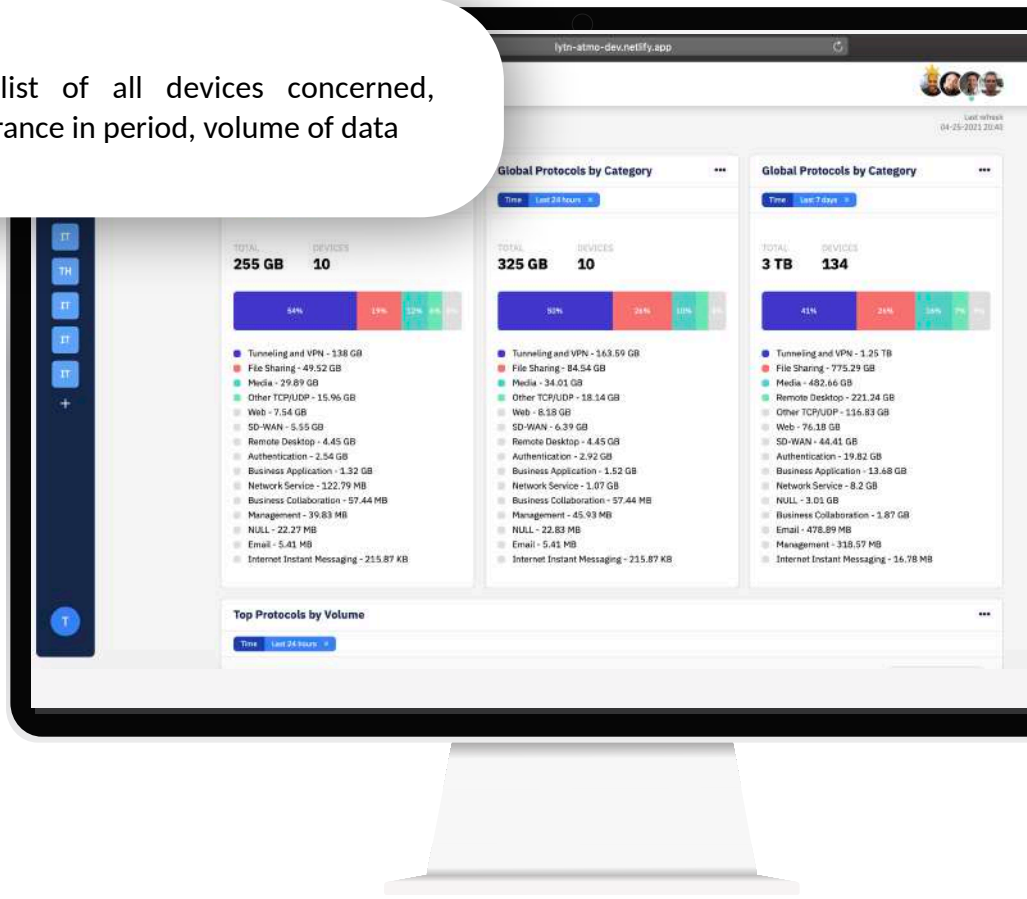
Applications

Volume & hours of data exchanged by name, category, all devices concerned



Protocols

Protocol, type, list of all devices concerned, number of appearance in period, volume of data



Most of those indicators can be filtered by

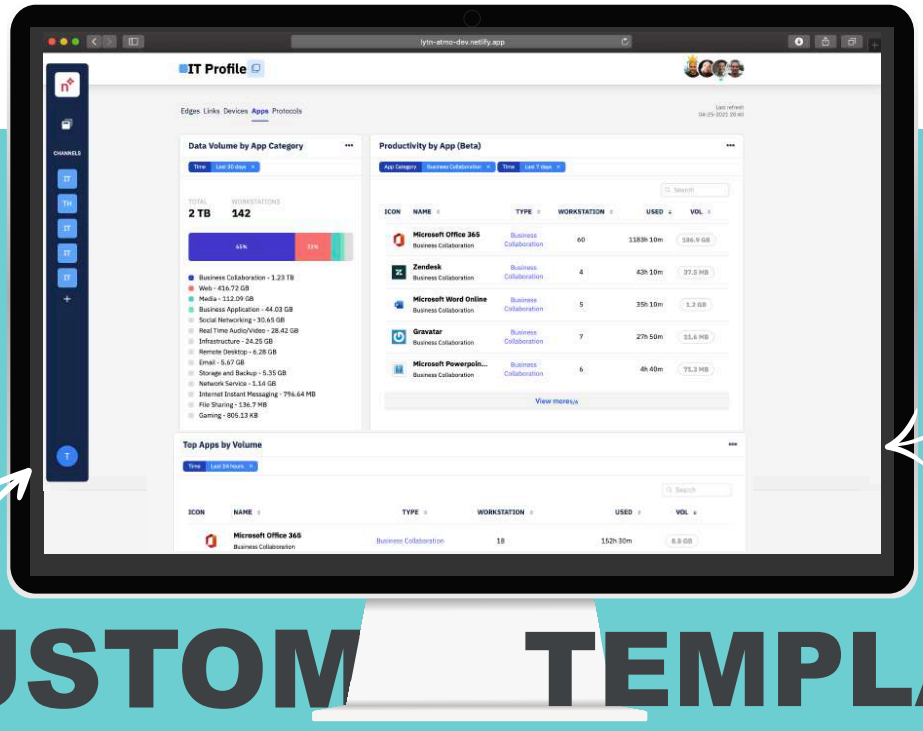
Time
Day, week...

Location
Country, region, world

be aggregated in order to provide a global or more focused view

USERS

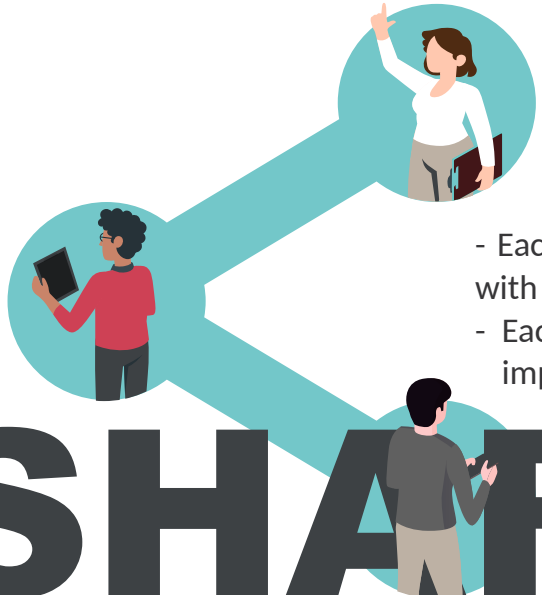
Each User has Credentials and a profile.
Profil could be IT or Business
When logging in the first time, each user accesses a Base Template
One modified, User has one or more Custom-Templates to use



Components

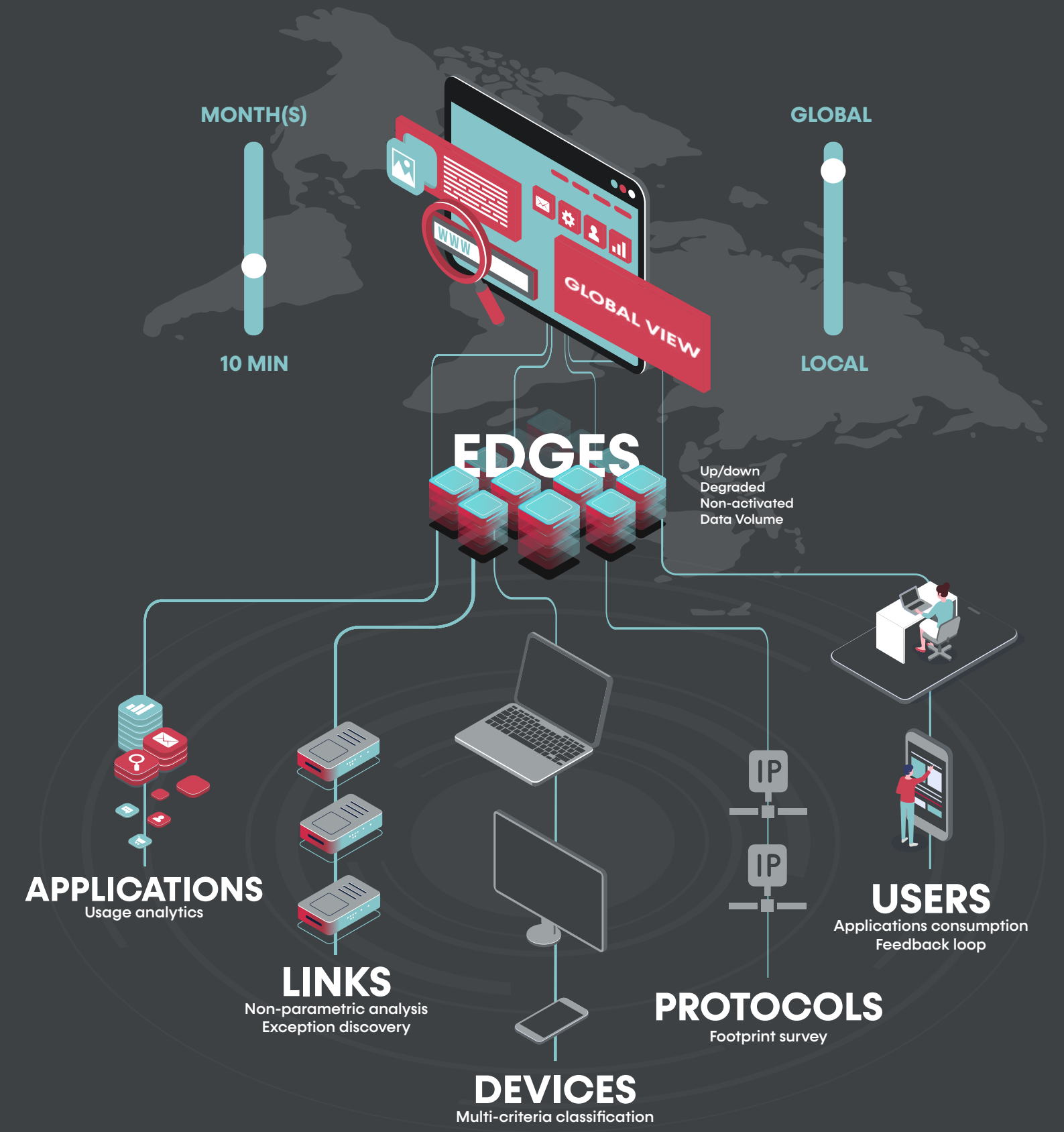
Channel

CUSTOM TEMPLATE



- Each Custom-template can then be shared with other users inside the same company
- Each Custom Template can be exported or imported between companies

SHARING


MONTH(S)
10 MIN
GLOBAL
LOCAL
GLOBAL VIEW
EDGES
Up/down
Degraded
Non-activated
Data Volume
APPLICATIONS
Usage analytics
LINKS
Non-parametric analysis
Exception discovery
DEVICES
Multi-criteria classification
PROTOCOLS
Footprint survey
USERS
Applications consumption
Feedback loop

Preliminary version, please contact us for any question on

info@lytn.io