



proximus NXT

## Explore Performance Reporting

# User Guide

**Date**

17/06/2024



# Contents

Contents.....	1
<b>Scope / Introduction.....</b>	<b>3</b>
<b>1 Access to the reporting application via the MyEnterprise portal.....</b>	<b>5</b>
1.1 The process step by step .....	5
1.1.1 Log on to the MyEnterprise portal .....	5
1.1.2 Select "Products" and then "Explore Performance Reporting" .....	6
<b>2 Presentation of the reporting tool.....</b>	<b>7</b>
2.1 The Home page .....	9
2.2 Dashboards.....	11
2.2.1 Dashlet and network selection .....	11
2.2.2 Granularity .....	13
2.2.3 selection of reporting period .....	14
2.2.4 Viewing and exporting graph data.....	16
2.3 SDWAN Flow .....	17
2.4 Report.....	17
2.5 Settings.....	19
2.5.1 Applications .....	19
2.5.2 Cluster .....	21
<b>3 The different types of graphs (dashlets) available.....</b>	<b>23</b>
3.1 Basic reporting.....	24
3.1.1 Volume (bytes) per site/CPE/Access in/out .....	24
3.1.2 Throughput (bit per second or packet per second) per site/CPE/Access in/out .....	24
3.1.3 WAN Link bandwidth usage (load) .....	24
3.1.4 Average packet size in/out .....	25
3.1.5 Packet discarding .....	25
3.1.6 Site availability (ping) and reachability (SNMP).....	26
3.1.7 Technical inventory .....	26
3.2 Advanced Reporting .....	27

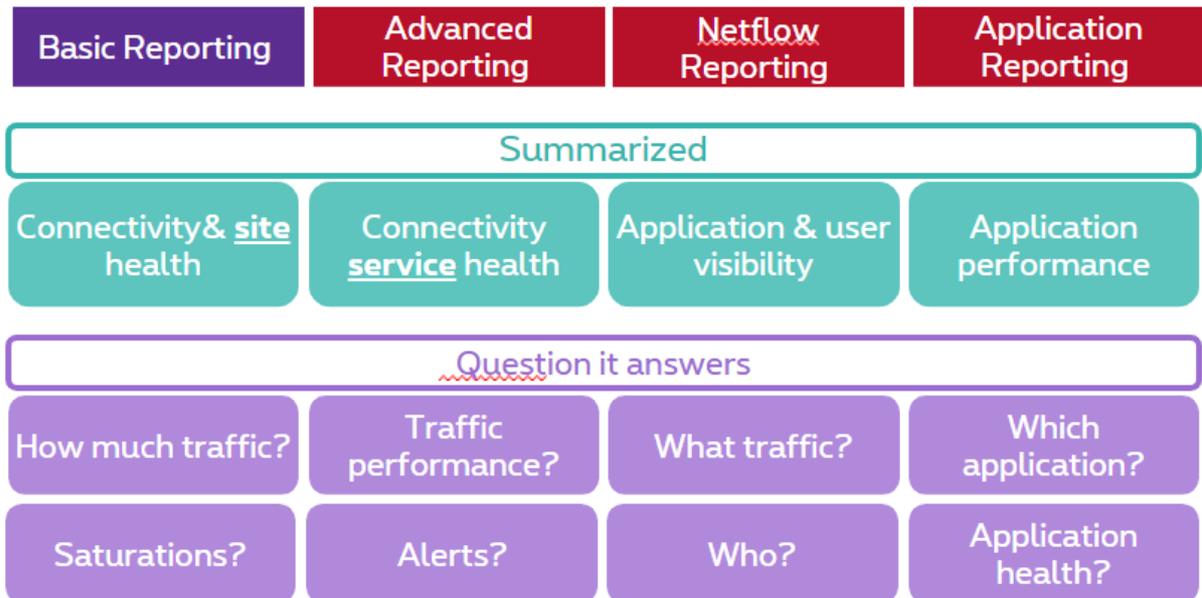


3.2.1 IP SLA reporting (delay, packet loss, jitter) per class of service	27
3.2.2 Volume and throughput per class of service	27
3.2.3 CPE Reporting (CPU / memory usage)	28
3.2.4 Capacity alerts (> 60% and > 80% load on access)	28
3.2.5 CPU / Memory alerts (> 80% usage)	29
3.2.6 Signal Strength RSSI for mobile access	29
3.3 Netflow reporting	30
3.3.1 Application recognition based on layer 4 ports	30
3.3.2 Volume & bandwidth usage per application	30
3.3.3 Top IP address per application	30
3.3.4 Class of service used per application	31
3.4 Application reporting	31
3.4.1 Application performance (end to end response times)	31
3.5 Cloud Traffic access	32
3.6 Secure Internet Traffic access	32
<b>4 Annex: Glossary</b>	<b>34</b>
<b>5 Annex: How is the data collected?</b>	<b>37</b>
<b>6 Annex: Table of alert thresholds by severity</b>	<b>38</b>
<b>7 Annex: Interpretation of error messages</b>	<b>39</b>
<b>8 Annex: List of reports according to reporting options.</b>	<b>40</b>



## Scope / Introduction

The Explore network reporting service is an online tool that gives customers an overview of the use and performance of their network.

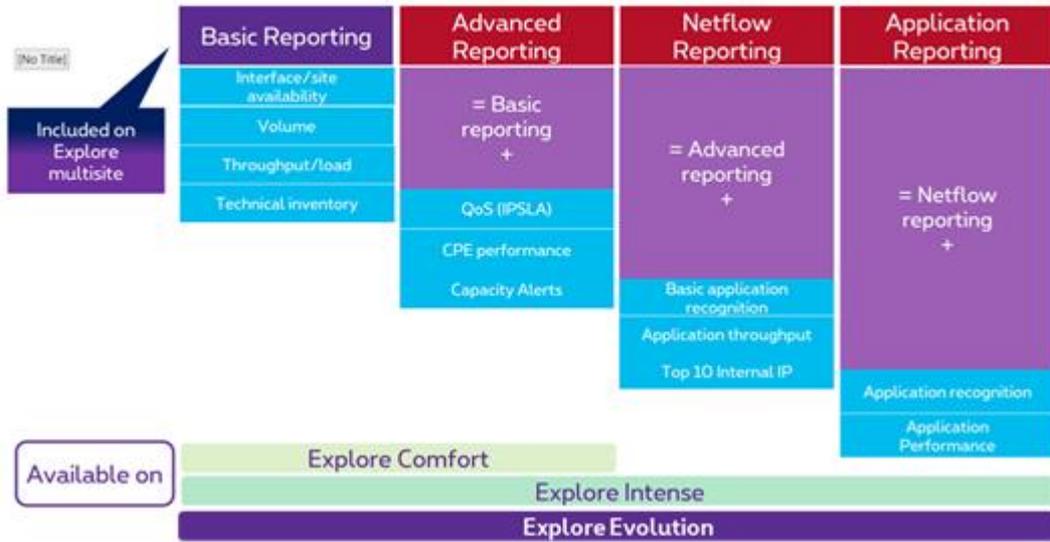


Customers can choose between 4 report versions, depending on the options ordered in their contract:

- **Basic report:** Network usage such as bandwidth consumed at site level and volume of data exchanged over the network.
- **Advanced report:** Network performance indicators such as delays, packet loss, jitter and router performance (CPU and memory usage).
- **Netflow Report:** Identify applications and their respective traffic.
- **Application reports:** Application performance on the Explore network,

If the network has internal or external Cloud Connect connectivity services (such as the Express Route service), reports on the use of this gateway and on the volumes of data exchanged are available from the basic report.

## Detailed features



The types of report available depend on the type of Explore solution chosen. All visualization functions are available on the Explore Intense and Evolution versions. However, they are limited for the Explore Comfort version.

# 1 Access to the reporting application via the MyEnterprise portal

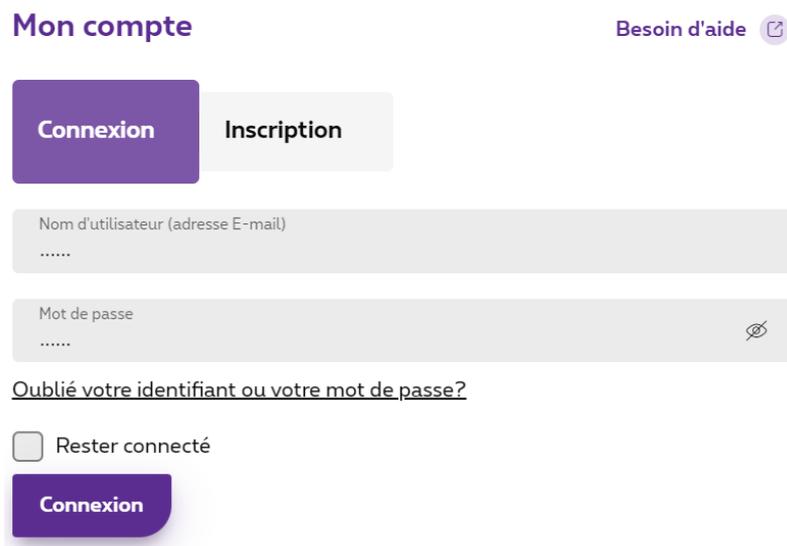
Explore network performance reports can be accessed via the MyEnterprise portal. After logging in to their account, customers select 'Integrated Reporting Portal'.

A list of available reports is displayed and the customer selects "Explore Performance Reporting".

## 1.1 The process step by step

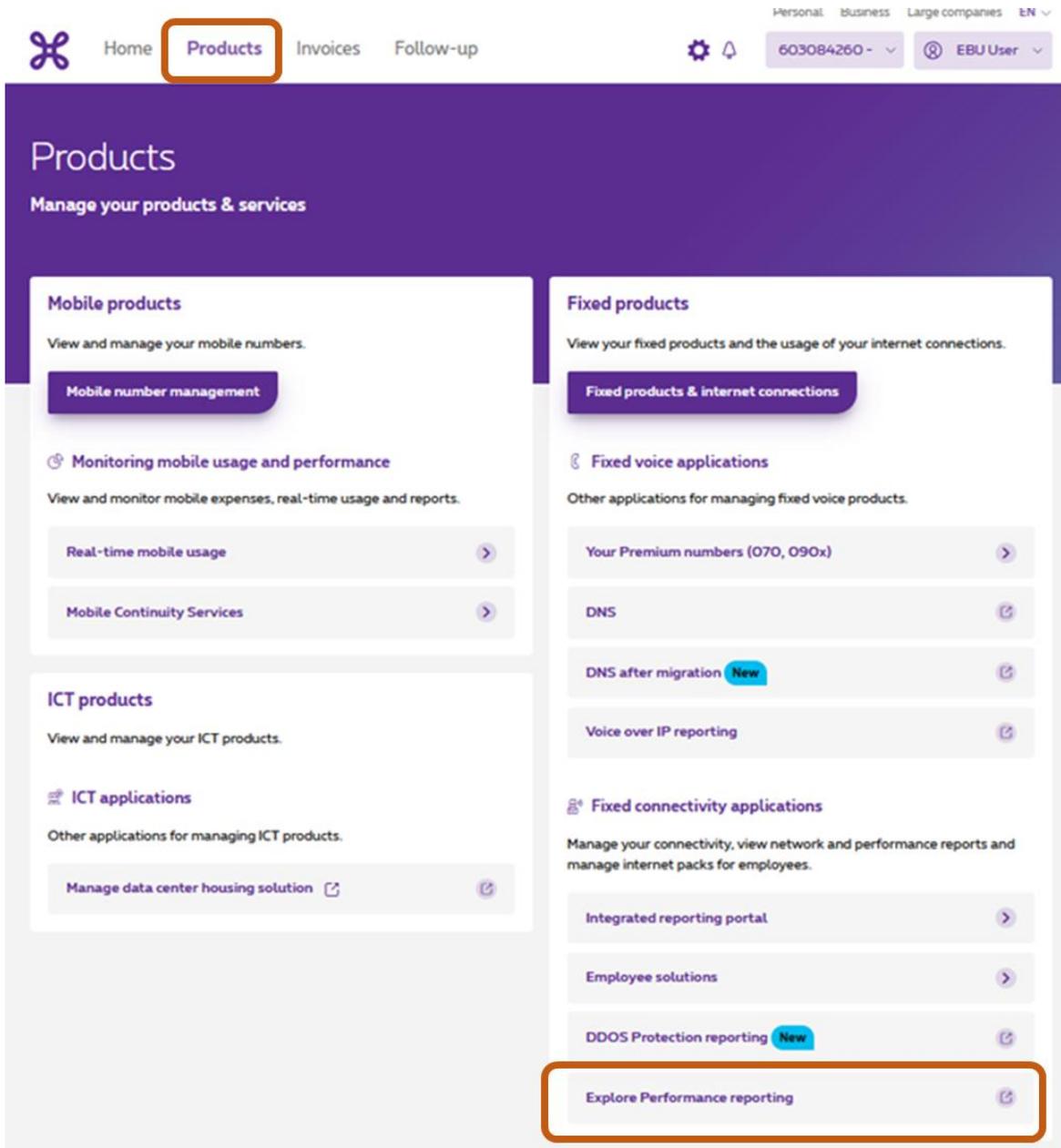
Note: for the best user experience when viewing the various reports, we recommend that you use a browser other than Microsoft Internet Explorer (Google Chrome, Mozilla Firefox, Microsoft Edge).

### 1.1.1 Log on to the MyEnterprise portal



The screenshot shows the login interface of the MyEnterprise portal. At the top left, it says "Mon compte" and at the top right, "Besoin d'aide" with a help icon. Below this are two tabs: "Connexion" (active) and "Inscription". The login form consists of two input fields: "Nom d'utilisateur (adresse E-mail)" and "Mot de passe". Below the password field is a link: "Oublié votre identifiant ou votre mot de passe?". There is a checkbox labeled "Rester connecté". At the bottom of the form is a purple "Connexion" button.

## 1.1.2 Select "Products" and then "Explore Performance Reporting"



The screenshot shows the Proximus NXT user interface. At the top, there is a navigation bar with 'Home', 'Products', 'Invoices', and 'Follow-up'. The 'Products' menu item is highlighted with an orange box. To the right of the navigation bar, there are user and account information: 'Personal Business Large companies EN', '603084260 -', and 'EBU User'. Below the navigation bar is a purple header with the text 'Products' and 'Manage your products & services'. The main content area is divided into three columns. The left column is titled 'Mobile products' and contains 'Mobile number management' and 'Monitoring mobile usage and performance'. The middle column is titled 'ICT products' and contains 'ICT applications'. The right column is titled 'Fixed products' and contains 'Fixed products & internet connections', 'Fixed voice applications', and 'Fixed connectivity applications'. In the 'Fixed connectivity applications' section, the 'Explore Performance reporting' option is highlighted with an orange box.

This takes you to the Explore reporting home page.

When you log in for the first time, the page presented is that of the user guide.

## 2 Presentation of the reporting tool

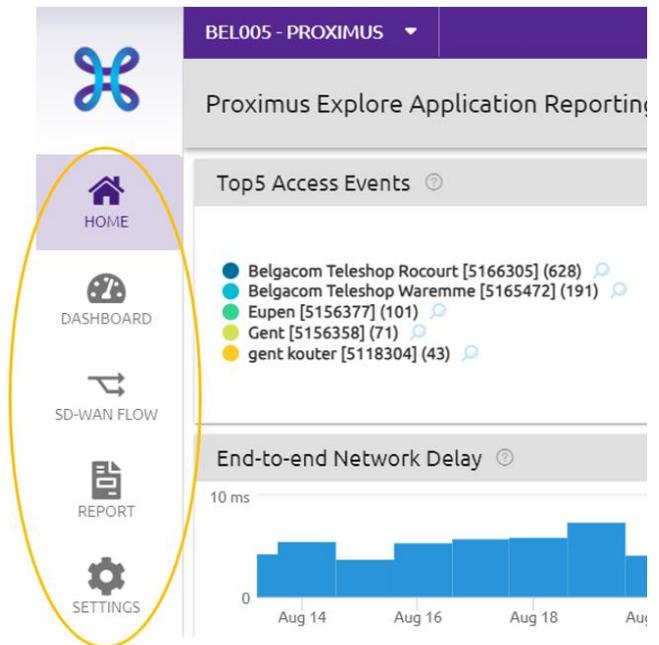
The Explore network reporting tool provides customers with a powerful and flexible system for monitoring the performance of accesses and/or applications on their WAN network.

For all traffic and applications passing over the WAN, and for thousands of Proximus corporate customers, this tool exploits the functionalities of several suppliers to deliver a flexible and scalable view in a centralized dashboard.

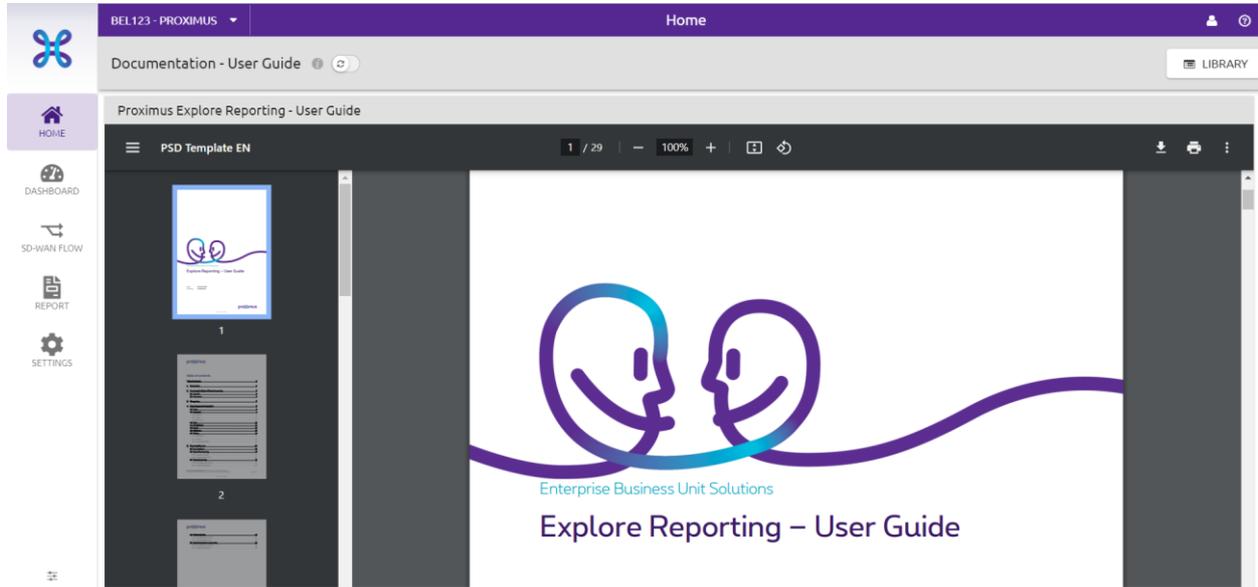
The tool enables IT managers to view, browse, investigate and document the performance level of their WAN Explore network and the problems encountered by their users.

Introduction to the reporting system. The reporting system is made up of several modules:

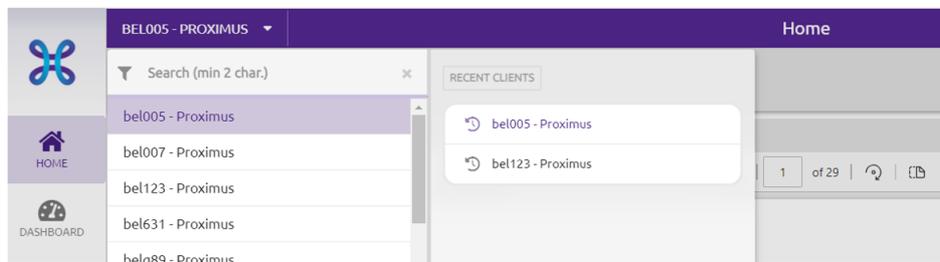
- The **"Home"** module provides a single-page view of the network, updated in summary form, for specialists and non-specialists alike;
- The **"Dashboard"** module lets you investigate the network from different perspectives: from the network to the interface, via the application and the CoS;
- The **"Report"** module is a static view of the network that periodically summarizes service levels for daily analysis, or for internal presentation within your company.
- The **"Settings"** module lets you choose and adapt the applications listed in a dictionary, or create "Clusters" to group different sites or routers together in a report. This feature is particularly useful for networks containing a large number of sites.



On a given user's first visit, the default page is the user guide.



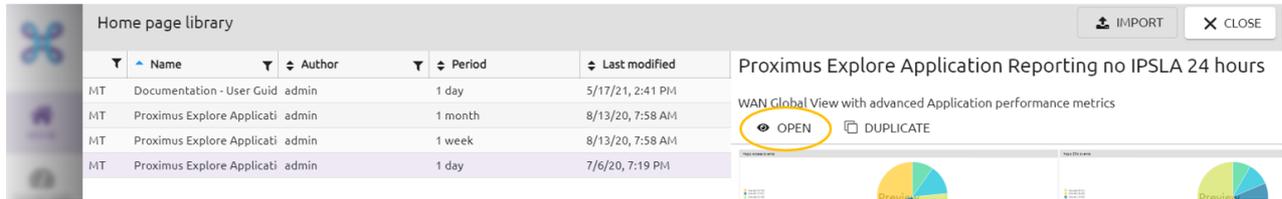
In the top left-hand corner, you can select the Explore contract(s) linked to a customer, and the drop-down menu allows you to select the contract for which you wish to view the report. A search function can be used for a large number of contracts.



In the top right-hand corner, the "Library" button brings up a list of available reports to be assigned in the form of a home page.



When the Library area is selected, the list of available reports appears. To select a report, select it in the report column and click on "Open" on the right-hand half-page. To return to the previous page, select the "Close" button in the top right-hand corner.



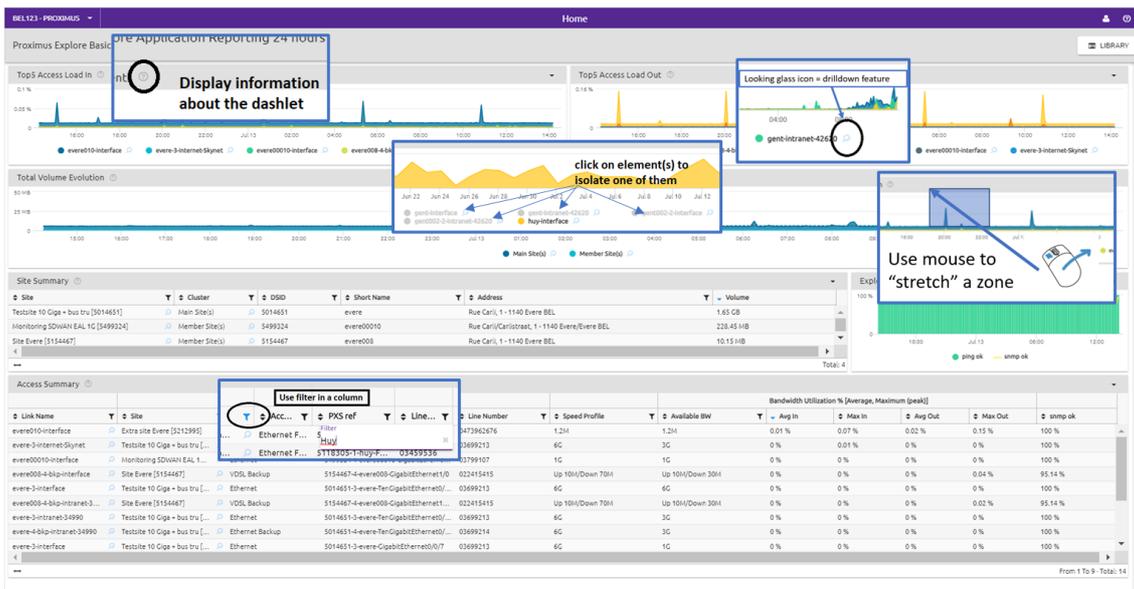
Once the report has been selected, the selected report will appear at each new connection. You can change the "home" page by selecting another report from the list of available reports.

## 2.1 The Home page

The home page provides an overview of the network for non-experts and IT managers. It displays the main network metrics, so you can see at a glance the points of attention concerning the status of connectivity services to be monitored and the performance of applications. Depending on the user's profile, one or more home pages are available in the "Library".

From the home page, users can:

1. Access the button to select another home page.
2. Access the various dashboard modules to access more information.



The table below explains the various functions that simplify the consultation of reports and the search for events relating to the Explore network.

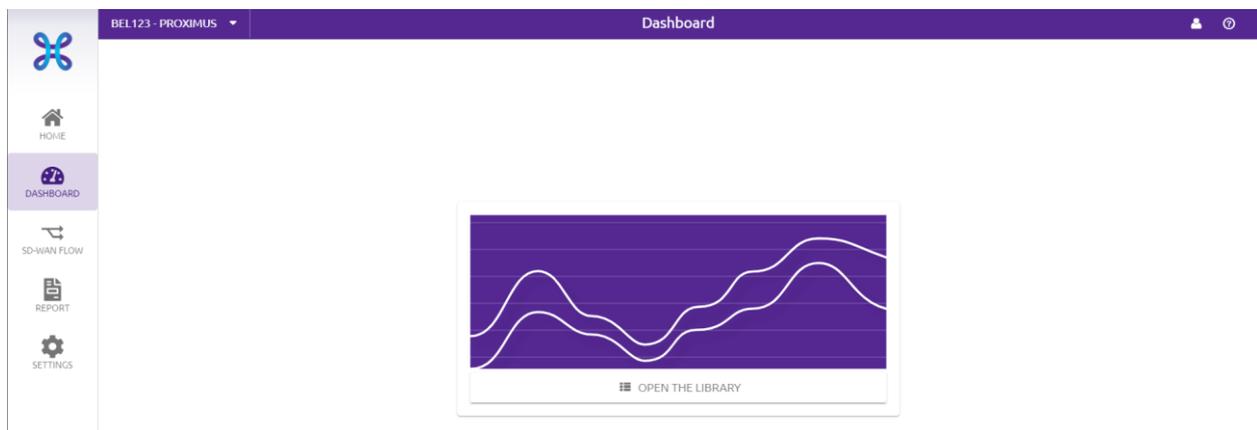


<p>Looking glass icon = drilldown feature</p>	<p><b>Drilldown</b></p> <p>When you detect unusual traffic peaks or high end-to-end latency for a specific application, you may need more details to understand the problem. The Drilldown function will help you investigate the issue step by step, displaying the relevant dashboards. When you need more details on a site, DSCP, device or application, click on the magnifying glass next to the legend. You will automatically be presented with a list of relevant dashboards, which you can open by clicking on the links provided.</p>
<p>Use mouse to "stretch" a zone</p>	<p><b>Zoom function</b></p> <p>In a dashlet, right-click to select a smaller time zone on a chart. This gives you a better view of the graph for a shorter time sample. When in "zoom" mode, it is possible to return to the initial presentation using the "Reset Zoom" button that appeared in the dashlet when this ZOOM function was activated.</p>
<p>Display information about the dashlet</p>	<p><b>Description of information presented in the dashlet</b></p> <p>By clicking on the magnifying glass next to the title of each dashlet, you can view a summary description of the information presented in the dashlet.</p>
<p>click on element(s) to isolate one of them</p>	<p><b>Highlight an element on the graph</b></p> <p>By selecting the name in the dashlet legend, this element is the only one displayed on the graph. This makes it possible to isolate information relating only to this element in the graph presented. You can switch interactively from one name to another to obtain the graph for each element.</p>
<p>Use filter in a column</p>	<p><b>Filter</b></p> <p>In a table, it is possible to perform a search on a name in order to visualize the table elements that correspond to the search criteria. This is particularly useful when there are many rows in the table.</p>

## 2.2 Dashboards

### 2.2.1 Dashlet and network selection

The dashboard module allows you to visualize and investigate the network from a number of angles: network load, application status monitoring, DSCP consistency and many other possibilities. The dashboard provides a view of the entire network or of a specific site, depending on what has been selected.



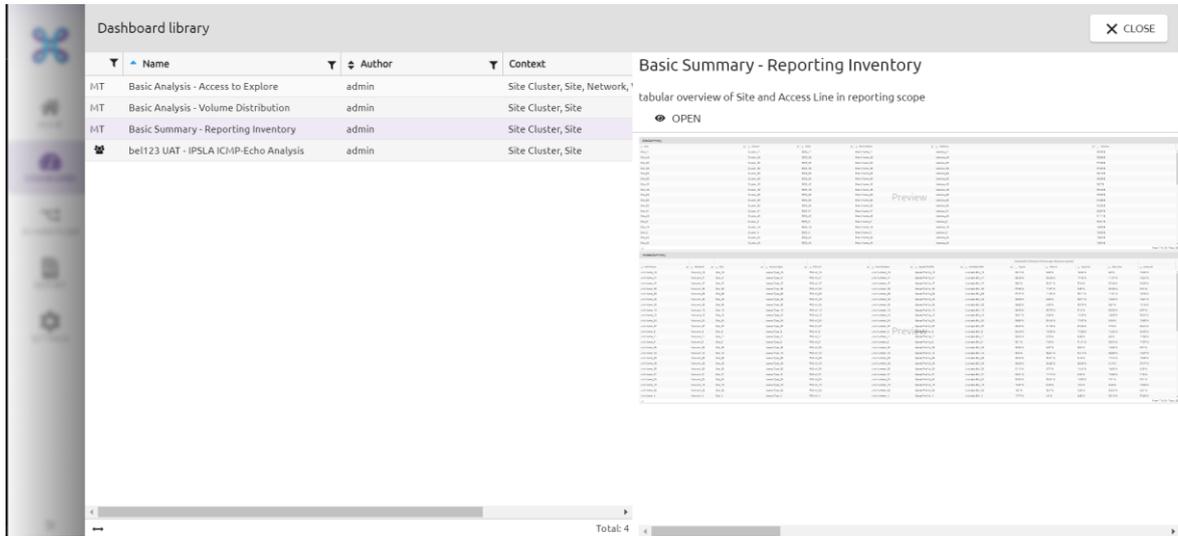
When the dashboard is first consulted, the user is invited to open the library of available reports. Click on "Open Library" to access the list of predefined reports.

Report names are preceded by the name of the report profile.

- "Summary" means that the report will mainly use tables
- "Analysis" means that the report will mainly use graphs.
- When the ..... period is set, it is indicated in brackets.

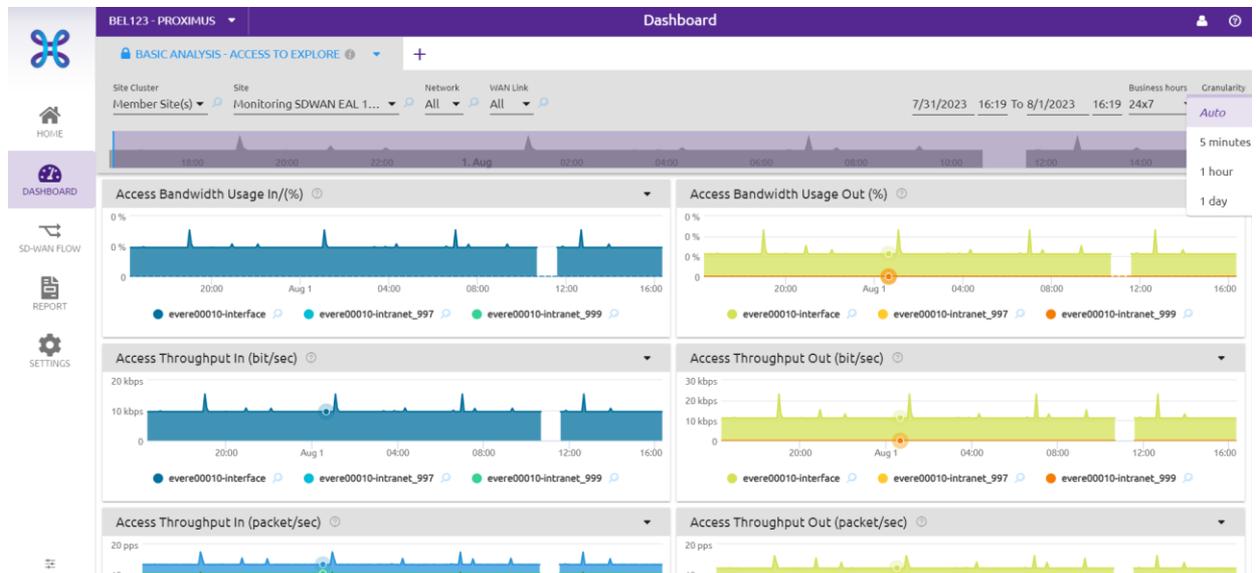
Home pages, dashboards and reports use the same component ("**dashlet**") for different purposes.

- o The "**Summary**" dashboards provide information on trends and evolutions of various parameters.
- o The "**Analysis**" dashboards enable more detailed investigations to be carried out in order to identify an incident and possibly its source.



The user positions the mouse on the desired report and can open the report in the right-hand window by selecting the "Open" button.

The management bar at the top of the dashboard lets you select the site (in the cluster), the application or the equipment, filter over a chosen period and update all dashboards according to the selected parameters.



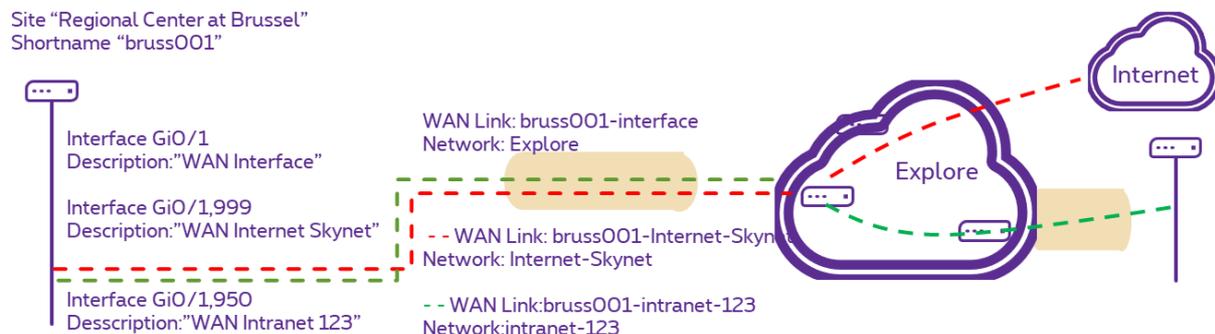
Users can add new dashboards to the multi-tab environment by adding a new report using the "+" sign to the right of the first report's name. Individual reports can be deleted from the multi-tab layout.

On the top left-hand side, you'll find the various selection parameters for defining the network components and elements included in the report. The menu is adaptive in the sense that the first selections will determine, in this example, the possible choices in subsequent fields. Selecting the various parameters provides a dashboard for the elements selected in the various selection fields.



Site cluster	This field is used to select a list of clusters (groupings of sites, see point 2.6.2) for which you wish to view performance data. <b>You can select several clusters at once by pressing the "ctrl" key when selecting an additional cluster from the drop-down menu.</b> Cluster names are defined at the time of creation.
Site	Once the cluster(s) have been selected from the first list, it is possible to select one or more specific sites. Sites are identified by their name followed by their Data Service identification (DSid).
Network	This information is available for a site or group of sites as selected in the "Site Cluster" and "Site" fields. The list for the Network field can contain different values for selection, depending on the type of network available for selection: <ul style="list-style-type: none"><li>• Explore, Explore-Bkp, Mobile, Mobile Bkp; all traffic transiting on the main or backup access line (Bkp)</li><li>• Intranet-xxxxx, Internet, Extranet: the portion of traffic defined for connection between sites, Internet access or to another client for Extranet.</li></ul> Selecting the network type allows you to isolate data relating to backup, intranet or internet traffic.
WAN link	"router name - version -(Bkp) - physical interface or sub-interface".  The name always begins with the router name assigned by Proximus for a given site. Selecting from the Wan Link menu allows you to count the different types of traffic (interface, intranet, Internet, backup) passing through this router.

Here's a simplified diagram of a site's structure, interfaces and connections:



## 2.2.2 Granularity

On the upper right, you will find the selection elements for the time period displayed on the report. This period can be changed by selecting the start day and time, the end day and time, the period format (24hx7D, Monday to Friday or Monday to Saturday) and the "granularity".

This notion of **granularity** is important, and is linked to the data retention period when browsing over different periods. Data is collected every 5 minutes. Data with this 5' granularity is retained for 31 days.



- Every hour, a 1-hour aggregation is performed;
- "1-hour" data is stored for 3 months.
- Every day, a "1-day" aggregation is performed;
- "1-day" data is stored for 1 year.

It is therefore **impossible**, for example, to display 5-minute details beyond 1 month, or you will receive the error message "**No data matching this time period**".

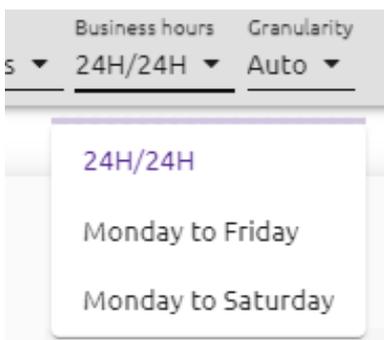
To compensate for this, the reporting solution proposes the use of the "Granularity" parameter in "Auto" mode. This option is available in dashboards and reports, but not in the home window, as granularity is set in the report choice (via selection in the library).

- In "Auto" mode, the display will be as close as possible to the selected time window.
- For the last 31 days and under 48 hours, 5' granularity will be used.
- Beyond 48 hours, the granularity used will be
  - "1 hour" (within 3 months of retention) for periods of up to 3 weeks
  - and "2 days" for longer periods.

It is possible to force the granularity by using 5', 1 hour or 1 day sampling. Values of 5 minutes over a long period of time may result in the error message "**Too much data for this widget, please refine your request**" or "**Your widget cannot be processed. Check its configuration**".

Another effect to take into account is an "overwriting" of averages, maximums and minimums when changing granularity and/or aggregated values. When 1 hour is selected, the tool will calculate an average of the 12 samples (1 per 5 minutes) and save it. The maximums and minimums in 1 day will then be selected from these "crushed" values. The reasoning is the same for a one-day granularity. Peak periods can be found using the event counters in the "Advanced" reports.

### 2.2.3 selection of reporting period

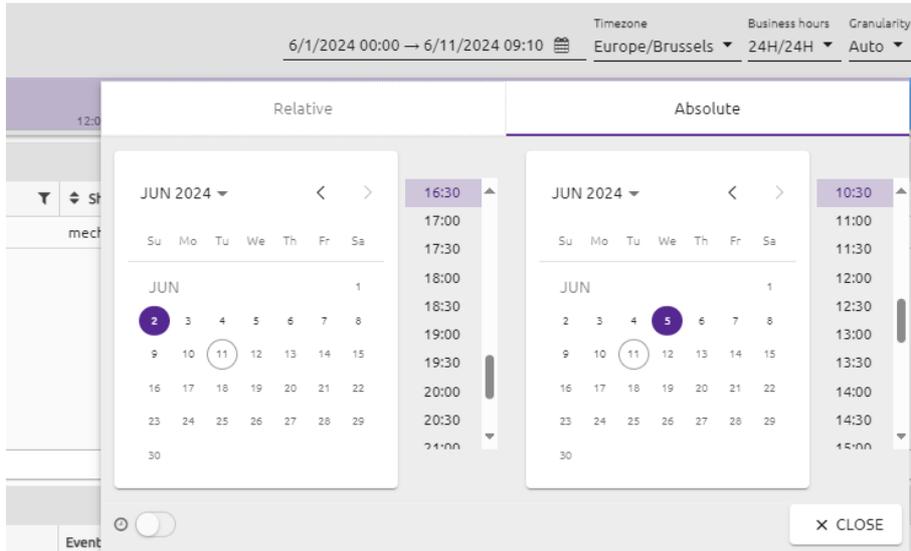


The notion of "Business hours" has a direct influence on the presentation of graphs and table values.

24H/24H	Data presented for the week without interruption
Monday to Friday	Data presented from Monday to Friday, 8am to 6pm. Other time periods are not taken into account.
Monday to Saturday	Data presented from Monday to Saturday, 7am to 10pm. Other time periods are not taken into account.

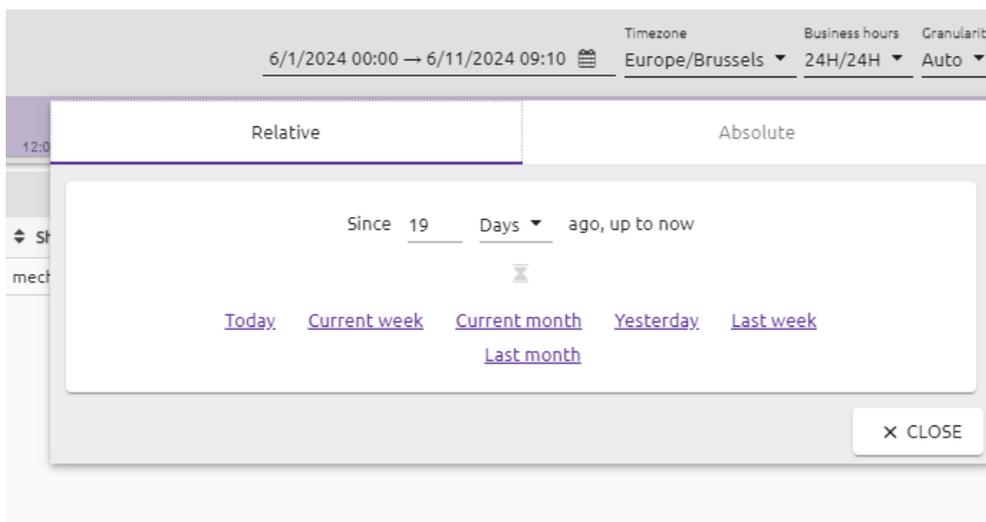
You can select the reporting period in 2 different ways:

**By selecting the start and end day and time of the reporting period:**



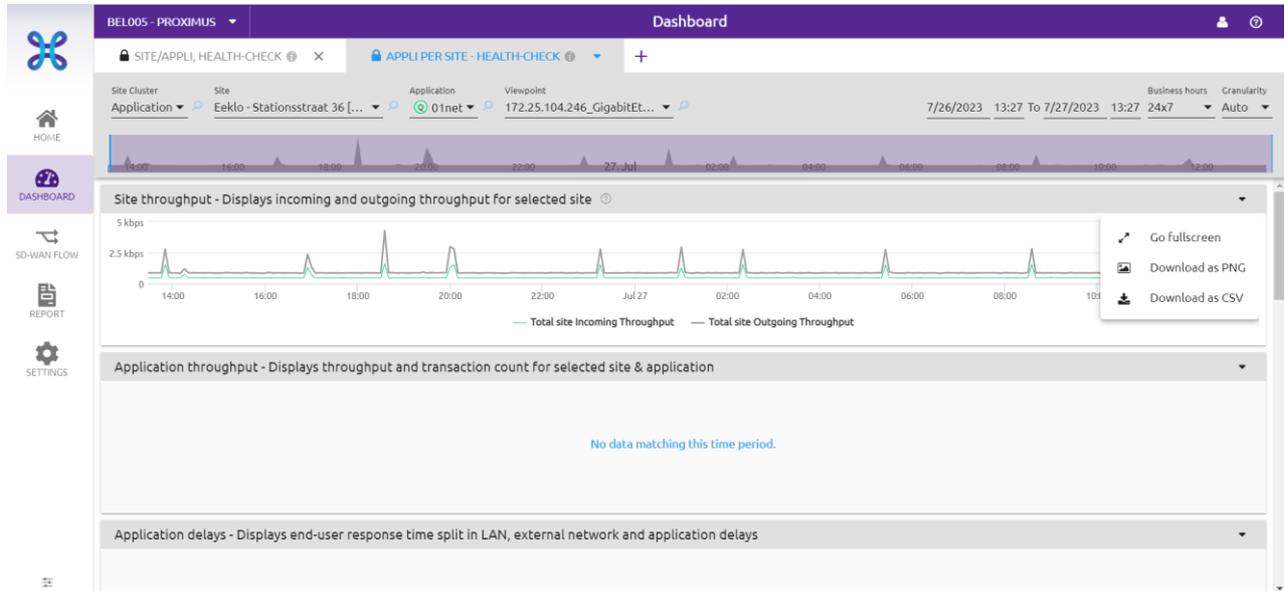
For the screen displaying absolute time values, you can activate granularity by 5' time intervals by clicking on the button at the bottom left of the window. Once this option has been activated, the selection can be made by 5' period on the scroll bar to the right of the calendar.

**By selecting a period relative to the time of the report request:**



In this case, you can select a period corresponding to the last day, the last week, the last month, the current week and the current month, with the end reference being the time of the report request. You can also request to go back in time for a period of your choice.

## 2.2.4 Viewing and exporting graph data



### 2.2.4.1 "Go fullscreen" graph presentation mode

Selecting the "Go fullscreen" function allows you to view the graph on screen in full-screen mode. Press the "Escape" key on the keyboard to return to normal mode.

### 2.2.4.2 Download an image file from a graphic "Download as PNG"

The "Download as PNG" function saves the image of the graphic, not the data itself. The user will refer to this information to show the problem he is facing.

### 2.2.4.3 Export data "Download as CSV"

To export data for use in another application, such as an Excel spreadsheet, use the "Download as CSV" option available in the dashboard.

## 2.3 SDWAN Flow

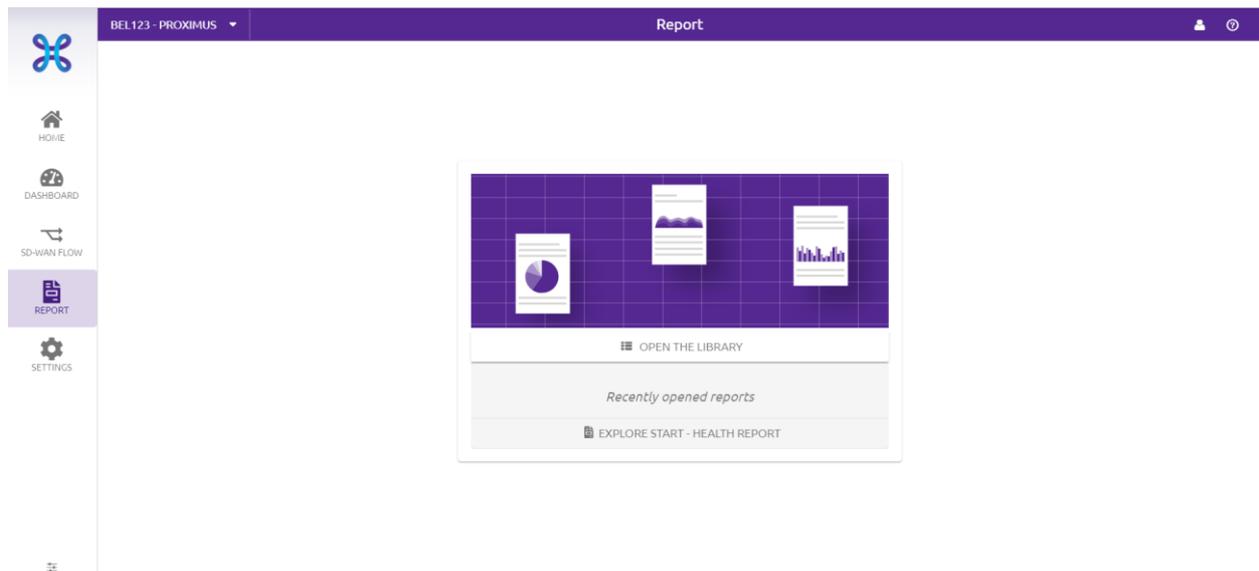
This view is not available for customers with an Explore contract.

## 2.4 Report

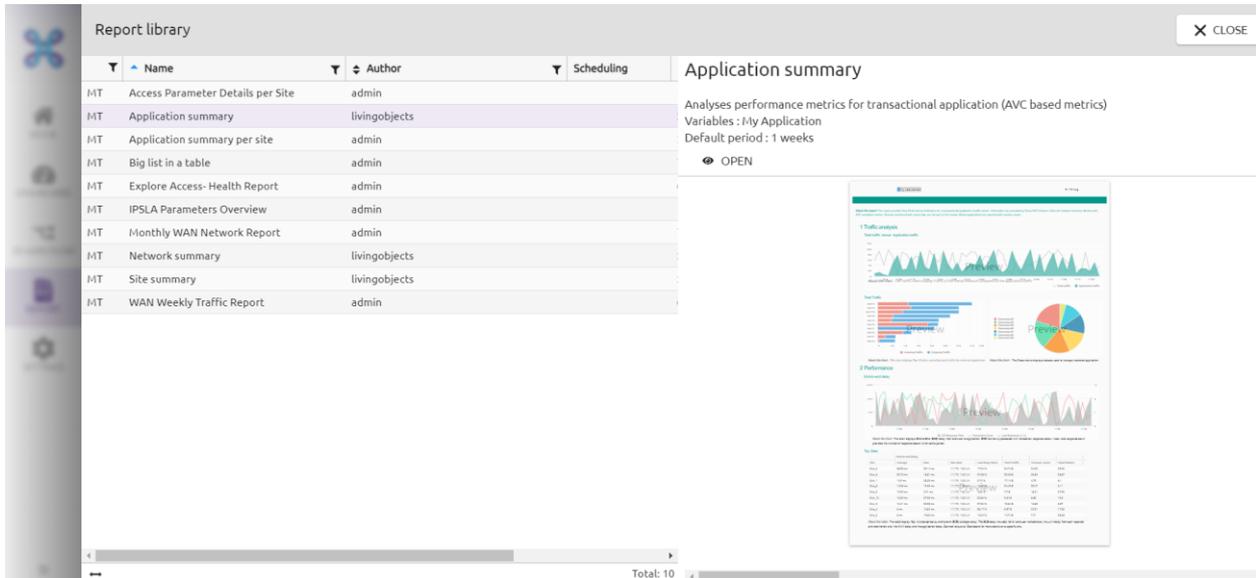
Proximus offers a list of standard reports. This list is not exhaustive and may evolve in the future. The principle is that each report is a .csv or pdf file that can be saved locally or sent by email.

The report contains graphs and explanations of these graphs. These reports contain the same information as that presented on the home page or in the dashboards, but this module enables this information to be summarized in a more formal report for communication to people other than those with direct access to the reporting system.

Each time a report is consulted, the module's welcome window prompts the user to choose from a list of predefined reports. To access the list of reports, click on the "Open The Library" link.

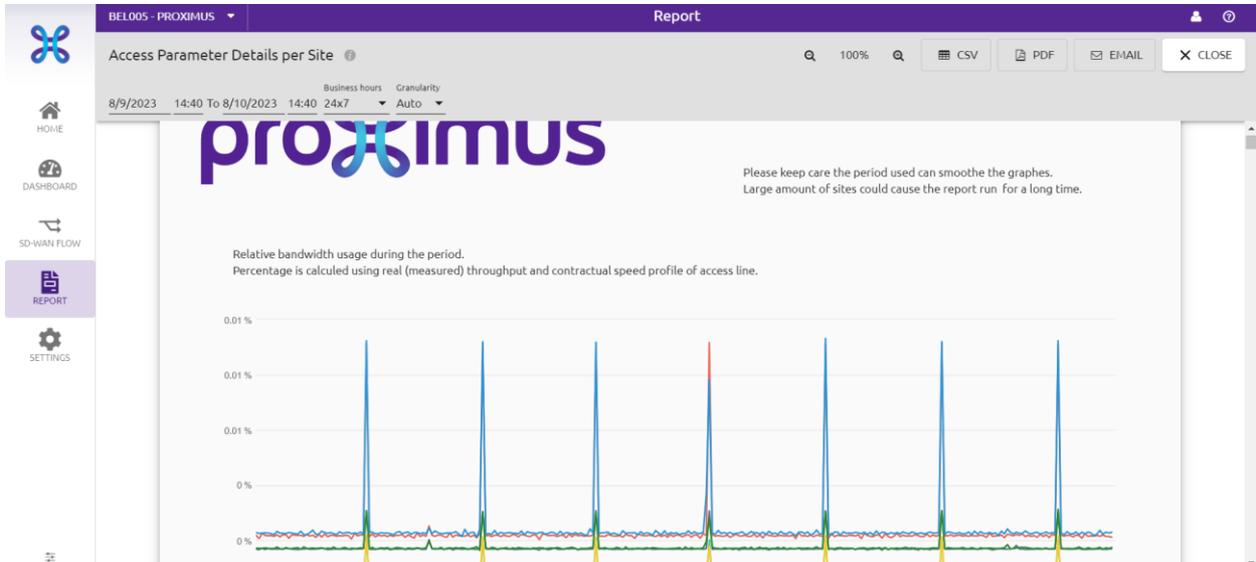


You will be taken to a table listing all available reports. This list of predefined reports may evolve with new developments, which may propose other predefined reports.



To access the selected report, select it from the list and click on the "Open" button in the right-hand window. A preview appears on the screen.

A list of all available reports can be found in the appendix of this document.



This takes you to the report available in the reporting tool.

It is also possible to export report information from the interface, thanks to 3 other functions in the top right-hand corner of the report window.

CSV	This function allows you to send the data contained in the selected report in CSV format.
PDF	This function generates a pdf document that can be downloaded and then saved on the user's computer.
Email	This function lets you define an email address to which the report in .pdf format will be sent.

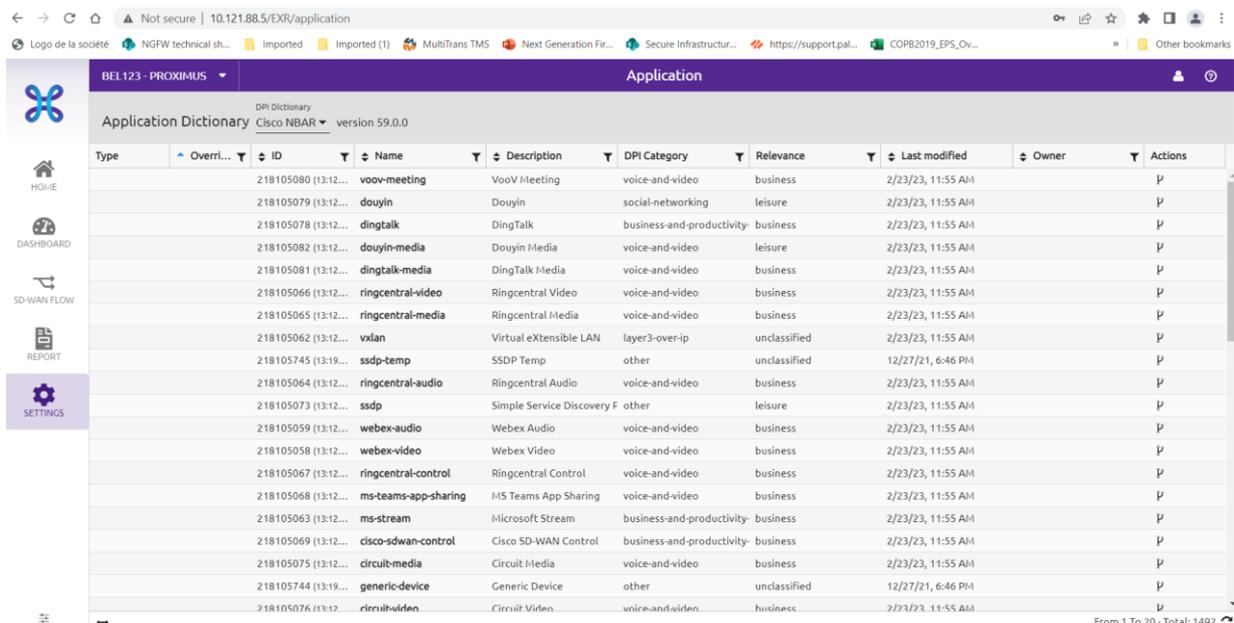
Note: With the "Report" module, a PDF generator is available on the Proximus server. Please note that calling up this service may take some time. If possible, use your own local PDF generator by using the "Ctrl+Shift+P" command in your browser.

## 2.5 Settings

### 2.5.1 Applications

#### 2.5.1.1 Dictionary

The Explore reporting tool integrates several dictionaries for well-known applications, as well as for custom applications developed by customers. Applications are described by name and can be grouped by category (browsing, network administrator, etc.) and group (business, leisure, unclassified, etc.).



Type	Overri...	ID	Name	Description	DPI Category	Relevance	Last modified	Owner	Actions
		218105080 (13:12...	voov-meeting	VooV Meeting	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105079 (13:12...	douyin	Douyin	social-networking	leisure	2/23/23, 11:55 AM		⌵
		218105078 (13:12...	dingtalk	DingTalk	business-and-productivity	business	2/23/23, 11:55 AM		⌵
		218105082 (13:12...	douyin-media	Douyin Media	voice-and-video	leisure	2/23/23, 11:55 AM		⌵
		218105081 (13:12...	dingtalk-media	DingTalk Media	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105066 (13:12...	ringcentral-video	Ringcentral Video	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105065 (13:12...	ringcentral-media	Ringcentral Media	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105062 (13:12...	vxlan	Virtual eXtensible LAN	layer3-over-ip	unclassified	2/23/23, 11:55 AM		⌵
		218105745 (13:19...	ssdp-temp	SSDP Temp	other	unclassified	12/27/21, 6:46 PM		⌵
		218105064 (13:12...	ringcentral-audio	Ringcentral Audio	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105073 (13:12...	ssdp	Simple Service Discovery F	other	leisure	2/23/23, 11:55 AM		⌵
		218105059 (13:12...	webex-audio	Webex Audio	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105058 (13:12...	webex-video	Webex Video	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105067 (13:12...	ringcentral-control	Ringcentral Control	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105068 (13:12...	ms-teams-app-sharing	MS Teams App Sharing	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105063 (13:12...	ms-stream	Microsoft Stream	business-and-productivity	business	2/23/23, 11:55 AM		⌵
		218105069 (13:12...	cisco-sdwan-control	Cisco SD-WAN Control	business-and-productivity	business	2/23/23, 11:55 AM		⌵
		218105075 (13:12...	circuit-media	Circuit Media	voice-and-video	business	2/23/23, 11:55 AM		⌵
		218105744 (13:19...	generic-device	Generic Device	other	unclassified	12/27/21, 6:46 PM		⌵
		218105076 (13:12...	circuit-video	Circuit Video	voice-and-video	business	2/23/23, 11:55 AM		⌵

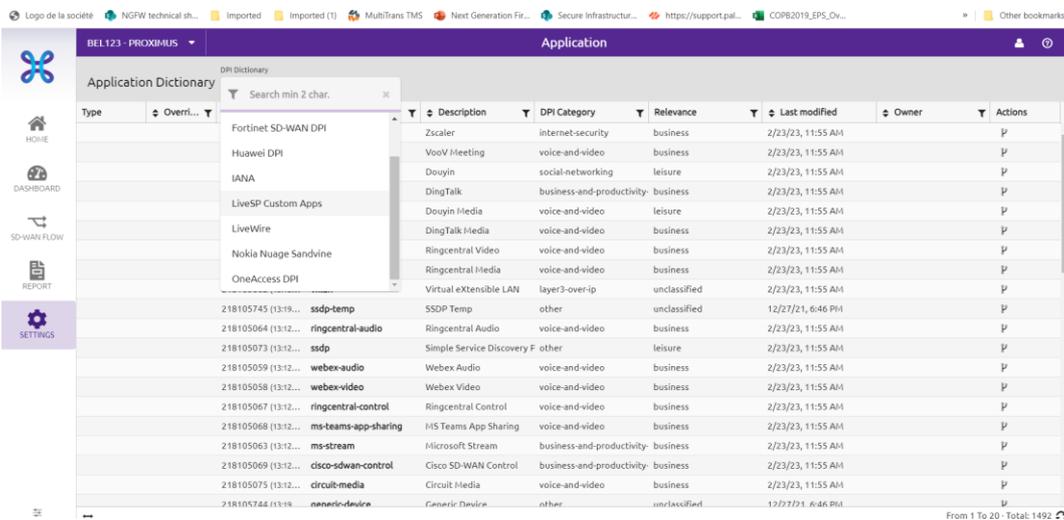
An application's category and group are shown for information only.

## 2.5.1.2 Creation

Users can define custom applications based on IP address, port, URL, and other parameters using several unique criteria.

Custom applications always override dictionary applications: for example, if a flow reports a NBAR2 ID "http" protocol packet that also matches the criteria of the "Cisco website" custom application, the latter will be retained.

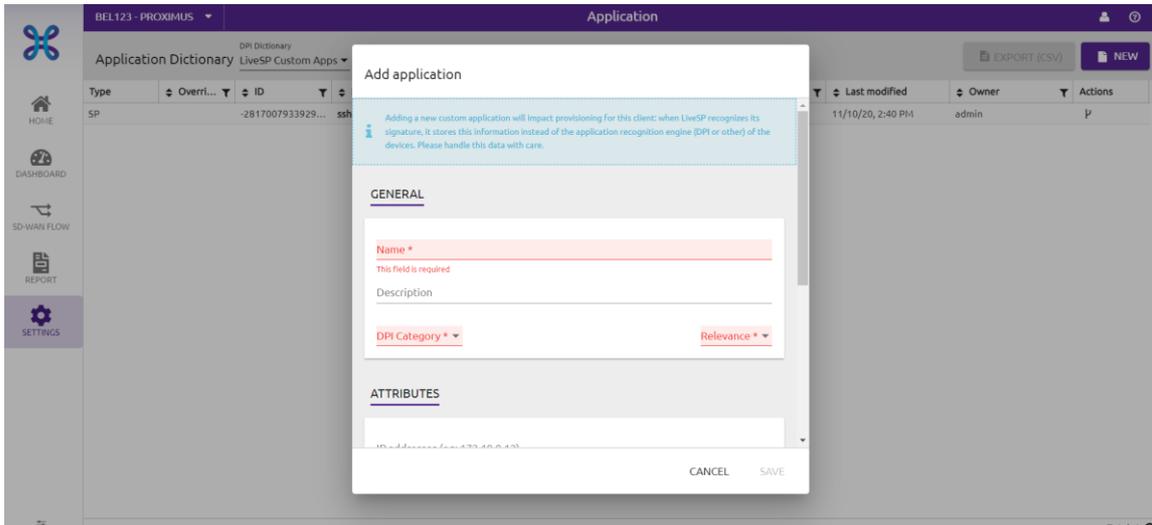
To isolate traffic to certain servers for certain applications, we recommend creating a new application in the "LiveSP Custom App" catalog. The application created will be presented in the various "dashlets."



Type	Overri...	Description	DPI Category	Relevance	Last modified	Owner	Actions
Fortinet SD-WAN DPI		Zscaler	internet-security	business	2/23/23, 11:55 AM		
Huawei DPI		VooV Meeting	voice-and-video	business	2/23/23, 11:55 AM		
IANA		Douyin	social-networking	leisure	2/23/23, 11:55 AM		
LiveSP Custom Apps		DingTalk	business-and-productivity	business	2/23/23, 11:55 AM		
LiveWire		Douyin Media	voice-and-video	leisure	2/23/23, 11:55 AM		
Nokia Nuage Sandvine		DingTalk Media	voice-and-video	business	2/23/23, 11:55 AM		
OneAccess DPI		Ringcentral Video	voice-and-video	business	2/23/23, 11:55 AM		
218105745 (13:12...)	ssdp-temp	Ringcentral Media	voice-and-video	business	2/23/23, 11:55 AM		
218105064 (13:12...)	ringcentral-audio	Virtual eXtensible LAN	layer3-over-ip	unclassified	2/23/23, 11:55 AM		
218105073 (13:12...)	ssdp	SSDP Temp	other	unclassified	12/27/21, 6:46 PM		
218105059 (13:12...)	webex-audio	Ringcentral Audio	voice-and-video	business	2/23/23, 11:55 AM		
218105058 (13:12...)	webex-video	Simple Service Discovery F	other	leisure	2/23/23, 11:55 AM		
218105067 (13:12...)	ringcentral-control	Webex Audio	voice-and-video	business	2/23/23, 11:55 AM		
218105068 (13:12...)	ms-teams-app-sharing	Webex Video	voice-and-video	business	2/23/23, 11:55 AM		
218105069 (13:12...)	cisco-sdwan-control	Ringcentral Control	voice-and-video	business	2/23/23, 11:55 AM		
218105075 (13:12...)	circuit-media	HIS Teams App Sharing	voice-and-video	business	2/23/23, 11:55 AM		
218105744 (13:12...)	generic-device	Microsoft Stream	business-and-productivity	business	2/23/23, 11:55 AM		
		Cisco SD-WAN Control	business-and-productivity	business	2/23/23, 11:55 AM		
		Circuit Media	voice-and-video	business	2/23/23, 11:55 AM		
		Generic Device	other	unclassified	12/27/21, 6:46 PM		

Create a new application by selecting the LiveSP dictionary and clicking on "NEW" in the application dictionary title bar.

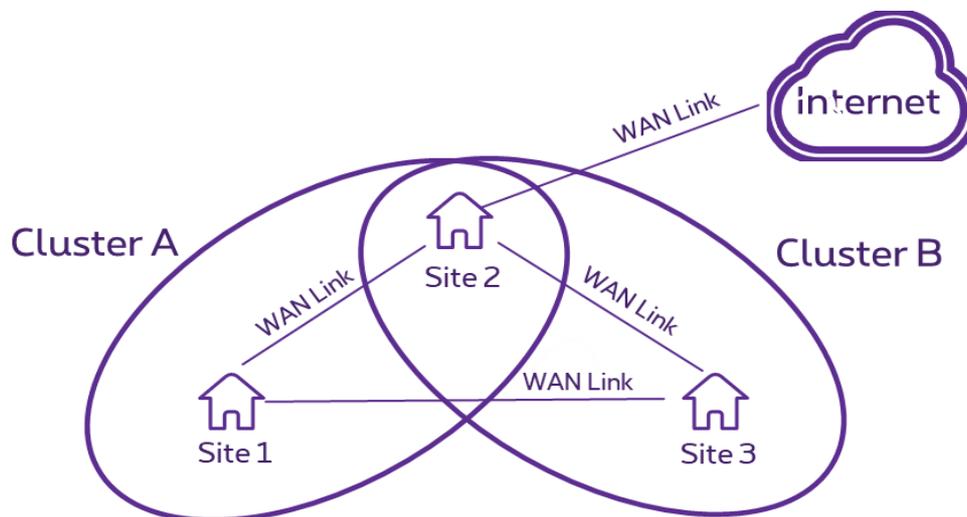
1. Select the LiveSP Custom Apps dictionary.
2. Name and describe your application.
3. Classify your new application among the existing categories and groups.
4. Specify at least one of the following application criteria: IP address, transport port, server name and custom application identifier embedded in routers. You can employ a combination of criteria, such as the union of criteria of the same type (OR) and the intersection of criteria of different types (AND). For example, IP address = 1.2.3.4 OR 12.3.4.5 AND port = 443



## 2.5.2 Cluster

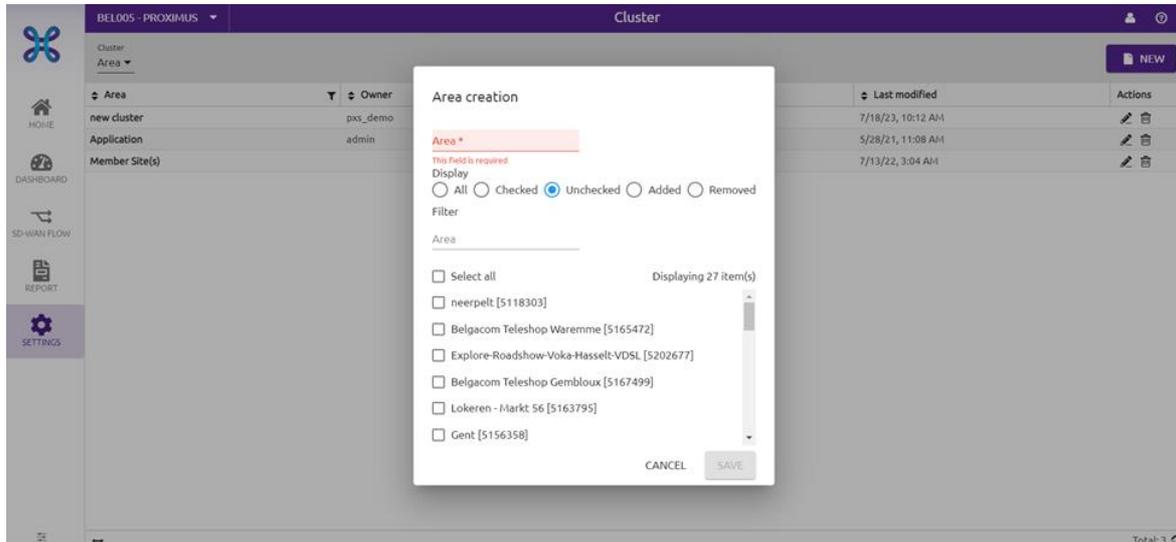
When a customer network comprises a large number of sites, it can be useful to group the sites into clusters. These groups are used as filters to easily find specific sites when displaying a dashboard. They can also be used to create reports based on geographical areas or business units.

For example, it is possible to create a cluster A that includes sites 1 and 2, and another cluster that includes sites 2 and 3. Selecting a cluster in a report will make it easier to select traffic from the sites included in a given cluster.



Open the site cluster library by clicking on and in the client's main menu. Group sites into clusters by clicking on "New" in the cluster menu.

1. Name your cluster.
2. Add or remove new sites or applications.



Area creation

Area \*

This field is required

Display

All  Checked  Unchecked  Added  Removed

Filter

Area

Select all Displaying 27 item(s)

- neerpelt [5118303]
- Belgacom Teleshop Waremmé [5165472]
- Explore-Roadshow-Voka-Hasselt-VDSL [5202677]
- Belgacom Teleshop Gembloux [5167499]
- Lokeren - Markt 56 [5163795]
- Gent [5156358]

CANCEL SAVE



### 3 The different types of graphs (dashlets) available..

As indicated in the introduction, there are 4 levels of reporting, giving access to the information shown in the table below:

	Basic Reporting	Advanced Reporting	Netflow Reporting	Application Reporting
Volume (bytes) per site/CPE/Access in/out	✓	✓	✓	✓
Throughput (bit per second or packet per second) per site/CPE/Access in/out	✓	✓	✓	✓
Access bandwidth usage (load)	✓	✓	✓	✓
Average packet size in/out	✓	✓	✓	✓
Packet discarding	✓	✓	✓	✓
Site availability (ping)	✓	✓	✓	✓
Technical inventory	✓	✓	✓	✓
IP SLA reporting (delay, packet loss, jitter) per class of service		✓	✓	✓
Volume and throughput per class of service		✓	✓	✓
CPE Reporting (CPU / memory usage)		✓	✓	✓
Capacity alerts (> 60% and > 80% load on access)		✓	✓	✓
CPU / Memory alerts (> 80% usage)		✓	✓	✓
Signal Strength RSSI for mobile access		✓	✓	✓
Application recognition based on layer 4 ports			✓	✓
Volume & Throughput per application			✓	✓
Top IP address per application			✓	✓
Class of service used per application			✓	✓
Application performance (end to end response times)				✓
Cloud Traffic access	✓	✓	✓	✓
Next Generation FW Internet Traffic access	✓	✓	✓	✓



Information is available in the form of "dashlets" on the home page, in dashboards or in reports. Reports are available according to the Explore services subscribed to, and data is available for active connectivity services. If the basic service is not ordered or activated, the dashlet data will not be visible and will be replaced by an error message.

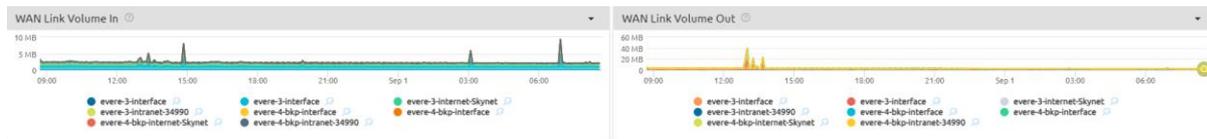
## 3.1 Basic reporting

### 3.1.1 Volume (bytes) per site/CPE/Access in/out

Examples of use:

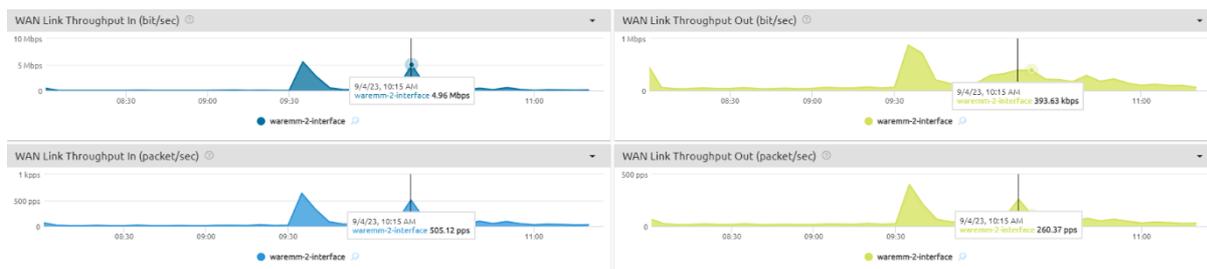
- Have any sites consumed abnormal volumes of data?
- Have my Mobile accesses been used, and with what volume of data transfer?
- When did we notice a peak in consumption during a given period?

Dashboard analysis examples ~ "Access to Explore"



### 3.1.2 Throughput (bit per second or packet per second) per site/CPE/Access in/out

Dashboard analysis examples ~ "Access to Explore"



### 3.1.3 WAN Link bandwidth usage (load)

Example of use:

- 1 - Is my interface responding well?
- 2 - Are there periods of saturation?
- 3 - Is my site's connectivity always available?

### Dashboard analysis examples ~ "Access to Explore"



Based on volumes collected every 5' and by interface, this dashlet visualizes performance by taking the following parameters into account:

- Utilization in % of available bandwidth
- Actual throughput in bit/sec
- Packet/sec view

The "Status Down Events" interface lets you measure the availability of selected interfaces.

### 3.1.4 Average packet size in/out

#### Dashboard analysis examples ~ "Access to Explore"



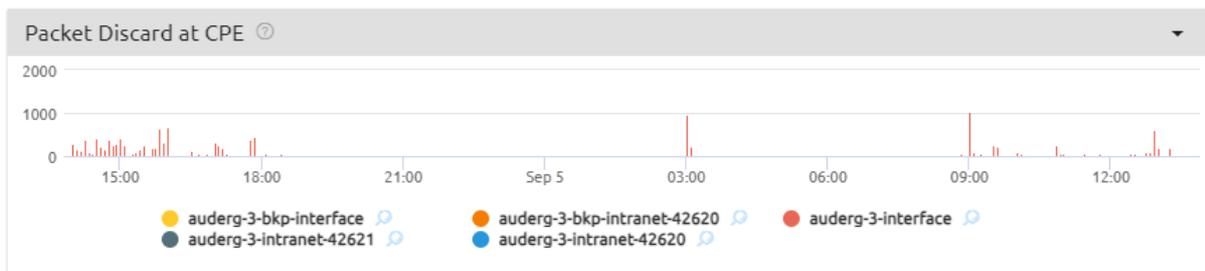
Based on volumes collected every 5 minutes and by interface, this dashlet visualizes performance by taking into account the distribution of average packet size.

### 3.1.5 Packet discarding

This refers to packet discarding in the router on the selected WAN link and in the outgoing direction (Upload). Packets may be discarded for one of the following reasons

- The data rate exceeds the transfer capacity of the network equipment
- There is no destination IP route in the routing table (routing error).
- Packet matches existing null routes in routing tables
- Packet size exceeds MTU value
- TTL (Time To Live) becomes zero

#### Dashboard analysis examples ~ "Access to Explore"



### 3.1.6 Site availability (ping) and reachability (SNMP)

Dashboard analysis examples ~ "Site"



Reachability is the average % of successful attempts (via ping OK) measured by the reporting system for all known routers.

Availability is the average % of positive responses (via snmp) measured by the reporting system for all accesses (Explore, Mobile, Intranet, Internet, Extranet).

The absence of information is interpreted as an unavailable status, which may however be erroneous if, for example, the SNMP information collection system is out of service during a maintenance period, or if the router is being rebooted (router software upgrade).

Proximus regularly performs security updates on its systems, which leads to interruptions in the reporting service. These actions are carried out during Explore intervention windows and may have an impact on the data presented.

### 3.1.7 Technical inventory

Examples of use:

- Are all my sites included in the reporting?
- What accesses do I have on Explore?
- What is the actual bandwidth per access?

Examples of Summary in a dashboard ~ "Reporting Inventory"

Site	Cluster	DSID	Short Name	Address	Volume	Availability	Reachability
Belgacom Teleshop Rocourt [5166305]	Application Perf	5166305	liege003	Chaussée de Tongres, 269 - 4000 Rocourt BEL	33.21 GB	0%	100%
Belgacom Teleshop Rocourt [5166305]	Neflow PNF	5166305	liege003	Chaussée de Tongres, 269 - 4000 Rocourt BEL	33.21 GB	0%	100%
Belgacom Teleshop Rocourt [5166305]	Member Site(s)	5166305	liege003	Chaussée de Tongres, 269 - 4000 Rocourt BEL	33.21 GB	0%	100%
Gent [5156358]	Member Site(s)	5156358	gent002	Veldstraat, 9 - 9000 Gent BEL	20.75 GB	100%	100%
gent kouter [5118304]	Application Perf	5118304	gent	Kouter, 1 - 9000 Gent BEL	19.1 GB	100%	100%
gent kouter [5118304]	test	5118304	gent	Kouter, 1 - 9000 Gent BEL	19.1 GB	100%	100%
gent kouter [5118304]	Member Site(s)	5118304	gent	Kouter, 1 - 9000 Gent BEL	19.1 GB	100%	100%

Link Name	Net...	Site	Access Type	PKS ref	Line Number	Speed Profile	Available BW	Bandwidth Utilization % [Average, Maximum (peak)]				snmp ok
								Avg In	Max In	Avg Out	Max Out	
gent002-2-interface	Explore	Gent [5156358]	VDSL	5156358-2-gent002-GigabitEthe...	093803810	Up 30M/Down 70M	Up 6M/Down 20M	3.6%	58.37%	3.97%	45.85%	100%
gent002-2-intranet-4...	Intran...	Gent [5156358]	VDSL	5156358-2-gent002-GigabitEthe...	093803810	Up 30M/Down 70M	Up 5.26M/Down 20M	3.53%	58.19%	4.08%	51.49%	100%
gent-interface	Explore	gent kouter [5118304]	Ethernet First Mile	5118304-1-gent-GigabitEthernet8	03459537	20M	20M	3.12%	25.82%	1.3%	22.43%	100%
gent-intranet-42620	Intran...	gent kouter [5118304]	Ethernet First Mile	5118304-1-gent-GigabitEthernet...	03459537	20M	20M	3.06%	25.8%	1.19%	22.33%	100%
gent-intranet-42621	Intran...	gent kouter [5118304]	Ethernet First Mile	5118304-1-gent-GigabitEthernet...	03459537	20M	500K	2.46%	97.8%	4.59%	24.71%	100%
huy-interface	Explore	Huy grand place [511...	Ethernet First Mile	5118305-1-huy-FastEthernet4	03459536	20M	20M	2.28%	58.66%	0.72%	9.7%	100%
huy-intranet-42620	Intran...	Huy grand place [511...	Ethernet First Mile	5118305-1-huy-FastEthernet4.999	03459536	20M	20M	2.26%	56.14%	0.67%	10.15%	100%
liege003-2-interface	Explore	Belgacom Teleshop ...	VDSL	5166305-2-liege003-GigabitEthe...	043836639	Up 10M/Down 70M	Up 10M/Down 64.91M	1.99%	49.48%	2.43%	42.04%	100%
liege003-2-intranet-4...	Intran...	Belgacom Teleshop ...	VDSL	5166305-2-liege003-GigabitEthe...	043836639	Up 10M/Down 70M	Up 9.1M/Down 64.91M	1.99%	49.53%	2.51%	46.02%	100%
waremm-2-interface	Explore	Belgacom Teleshop ...	VDSL	5165472-2-waremm-GigabitEthe...	019331903	Up 30M/Down 70M	Up 10M/Down 30M	1.14%	40.41%	1.21%	19.88%	100%

In table form, this dashboard presents information known to the reporting tool, such as:

- Site name and address
- Line number (WAN Link)

- Actual access bandwidth.
- Explore references to identify a site or contract.

A "download as CSV" function allows you to save this data locally and process each table with a spreadsheet program. Performance parameters can be used to sort the order in which sites and/or accesses are displayed.

## 3.2 Advanced Reporting

### 3.2.1 IP SLA reporting (delay, packet loss, jitter) per class of service

Quality of Service (QoS) KPIs are measured using IPSLA probes in the routers.

The following KPIs are measured for the class of service used by the customer:

- Jitter: delay variation
- One-way transit delay (msec) between member site(s) and main site
- Packet loss (%)

Dashboard analysis examples – "IPSLA Performance"



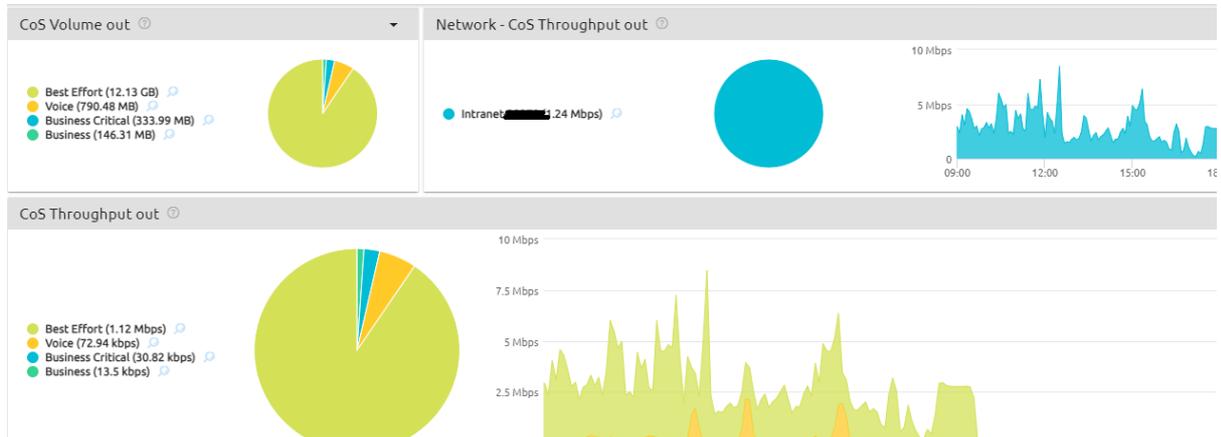
IP SLA functionality is only available when the report is available on a network of at least 2 sites, so Explore Single-site solutions are excluded.

### 3.2.2 Volume and throughput per class of service

Proximus configures Classes of Service (CoS) in fonts attached to WAN Links intranet/internet/extranet.

Furthermore, classes of service (CoS) are configured as standard for outgoing traffic (Out, Upstream) and not for incoming traffic (In, Downstream).

Dashboard analysis examples – "CoS Throughput"



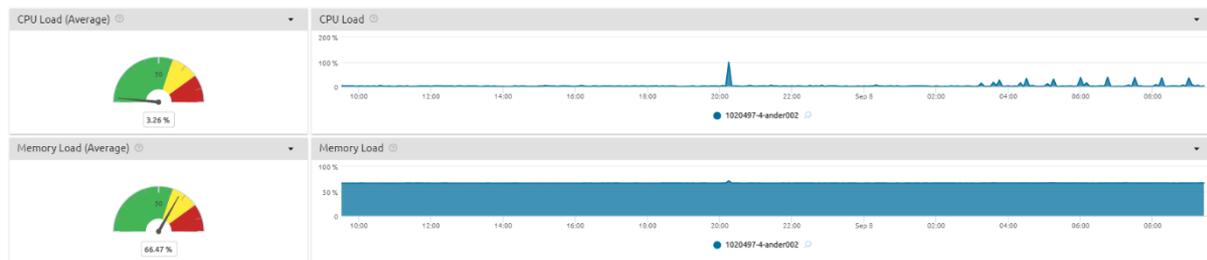
### 3.2.3 CPE Reporting (CPU / memory usage)

CPU load and memory load are measured in % for the router (CPE).

CPE events are generated when CPU load or memory usage exceeds 80% (critical event) or 60% (warning) during a 5-minute sample.

An overview of the number of events for the first 5 sites will be displayed on the home page: "CPU load and memory load".

Dashboard analysis examples ~ "Router"



### 3.2.4 Capacity alerts (> 60% and > 80% load on access)

Dashboard analysis examples ~ "Access to Explore"





Each time the load (or bandwidth usage) of a WAN access circuit exceeds 80% (critical event) or 60% (warning) within a one-hour period, an event is created.

The number of events for the first 5 sites is displayed on the home screen.

An "Advanced/Netflow/Application Monthly WAN Link Event" report gives an account of alerts for 1 month (configurable).

This report is not available in the "Basic" profile.

### 3.2.5 CPU / Memory alerts (> 80% usage)

This dashlet shows the occurrence of critical router events.

Dashboard analysis examples ~ "Router"



### 3.2.6 Signal Strength RSSI for mobile access

RSSI is an indicator of mobile network signal quality.

The RSSI "Response Signal Strength Indicator" can only be used if the router is connected to the mobile network (4G/5G). If not, 0 (zero) or "no data" is displayed instead of the graph.

For the moment, this indicator is only collected for Cisco routers

The equivalent for OneAccess routers is currently under development.

Dashboard analysis examples ~ "Router"





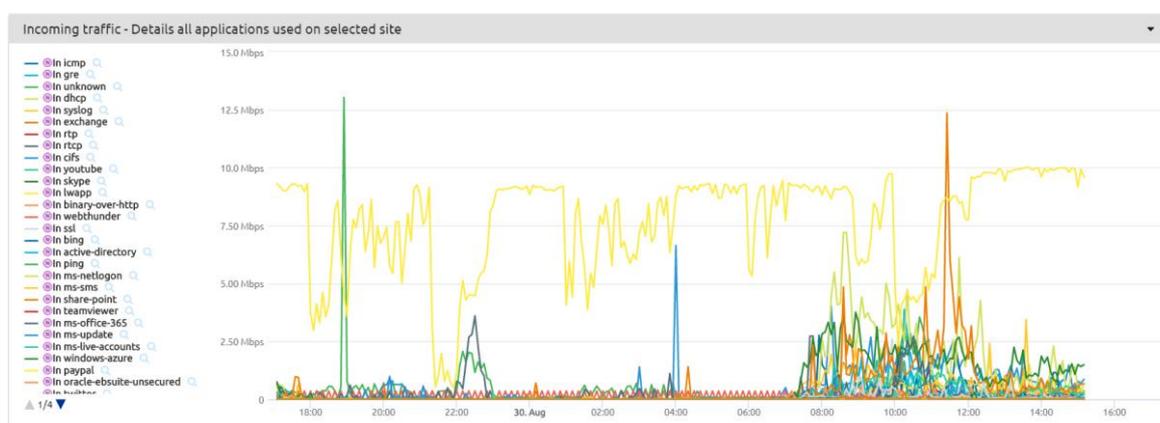
## 3.3 Netflow reporting

### 3.3.1 Application recognition based on layer 4 ports

The volume and throughput of all applications detected on the access line are provided by the router using the **IPFIX** functionality.

Unknown applications can be added to the database via the parameters of the reporting tool (see the paragraph on the application dictionary and the possibility of creating new profiles for unrecognized applications).

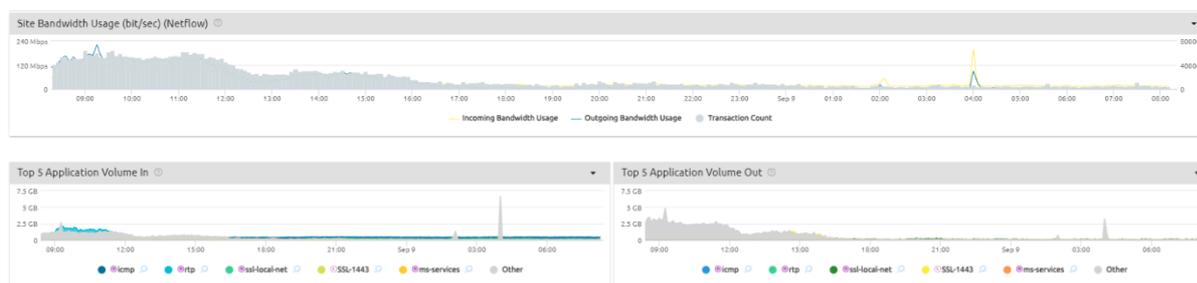
Dashboard analysis examples ~ "All Applications"



### 3.3.2 Volume & bandwidth usage per application

The throughput measured for an application is compared with the total throughput on a site.

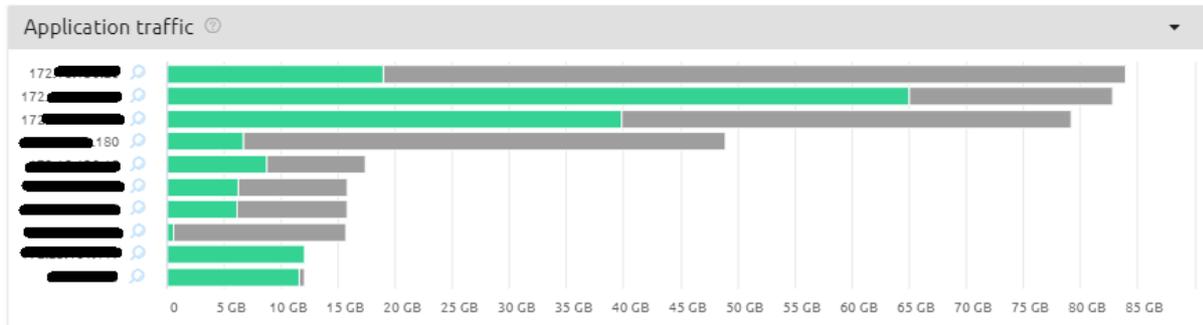
Dashboard analysis examples ~ "Application"



### 3.3.3 Top IP address per application

These are the top 10 IP addresses sending the most traffic for the selected application.

Dashboard analysis examples ~ "Application"



To save and control storage space, the reporting tool processes Netflow flows to keep only inbound/outbound URLs, internal IPs and external IPs by “Viewpoint”, VPN and application group.

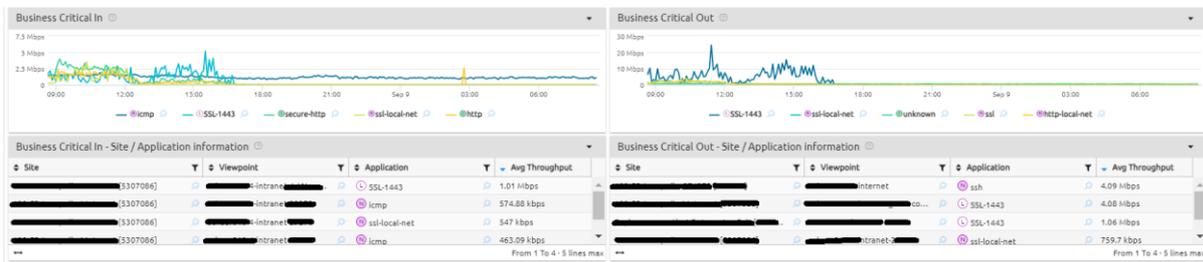
This means that, for example, every five minutes, the reporting tool will:

- List all data groups (viewpoint, VPN, application, URL),
- Classify them by incoming (or outgoing) traffic,
- Select only the first 10 to be stored.

### 3.3.4 Class of service used per application

The Class of Service for an application is displayed.

Dashboard analysis examples – "Application Throughput per CoS"



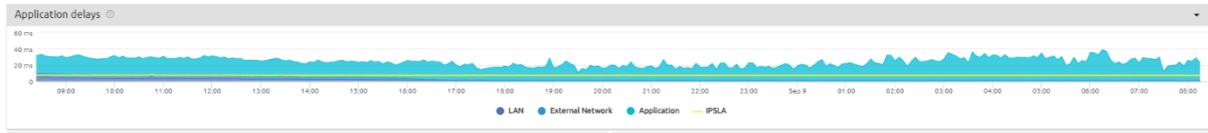
The Class of Service (CoS) is that relative to the application itself, collected via Netflow. An application visualized as "slow" could be the consequence of choosing a non-priority CoS for this application.

## 3.4 Application reporting

### 3.4.1 Application performance (end to end response times)

Response times are measured in the router by monitoring TCP protocol messages. As such, response times are only available for applications supported by the TCP protocol.

Dashboard analysis examples – "Application"



## 3.5 Cloud Traffic access

For Cloud “External Cloud connectivity” and/or “Proximus internal Cloud connectivity” contracts, Explore Performance Reporting offers different views of these services:

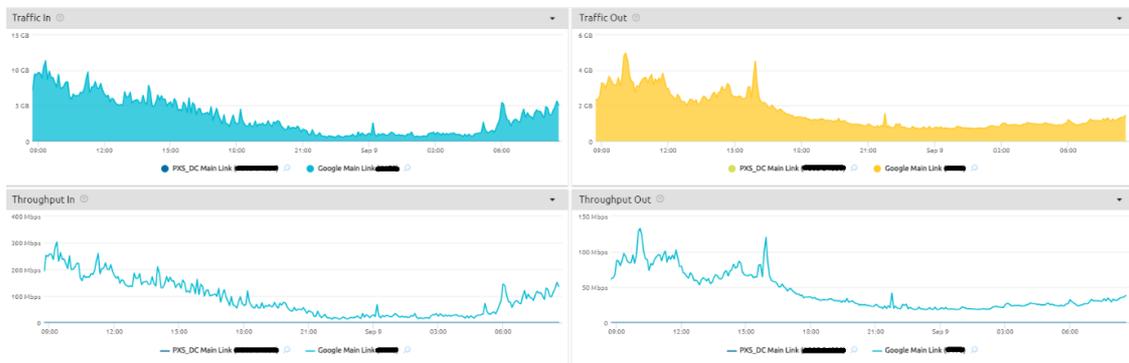
- Dashboards
  - o Cloud Analysis - Traffic In/Out Overview
  - o Cloud Summary - Traffic In/Out Overview
- Reports
  - o Cloud Traffic Overview

These reports are available for all versions of the reporting solution (Basic, Advanced, Netflow and Application), but require you to open a Cloud-specific dashboard in the library.

The data displayed are the existing Cloud links (primary and/or backup) with their exchanged traffic. If the Cloud service is not active, the report will contain no information.

Parameters include volume (In/Out), throughput in bits/second and percentage of subscribed bandwidth.

Dashboard analysis examples ~ “Cloud - Traffic In/Out Overview”



## 3.6 Secure Internet Traffic access

For Secured Internet contracts (Next Generation firewall), the Explore Performance Reporting solution also offers a view of this service:

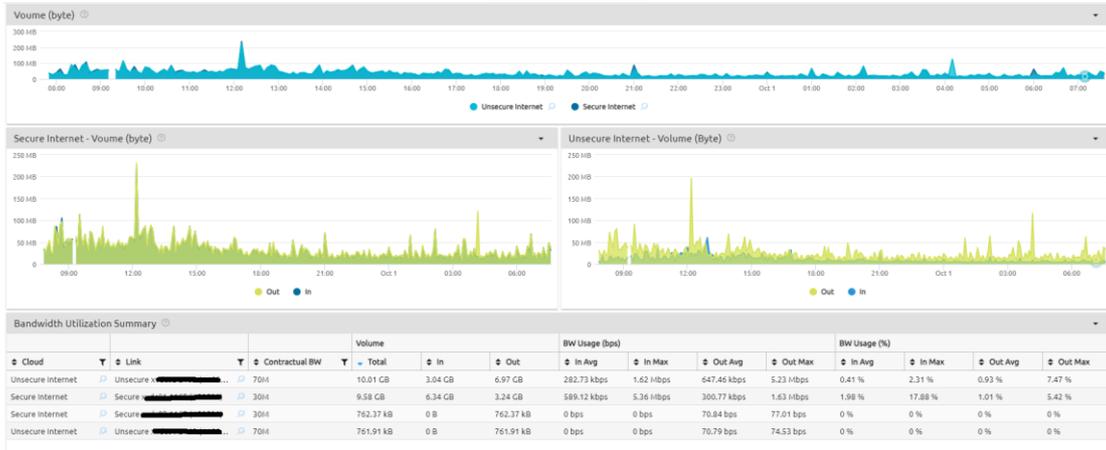
- Dashboards
  - o Secure Internet Analysis - Traffic In/Out Overview
  - o Secure Internet Summary - Traffic In/Out Overview
- Reports
  - o Secure Internet Traffic Overview

These reports are available for all versions of the reporting solution (Basic, Advanced, Netflow and Application), but require you to open a specific NGFW Internet Secured dashboard in the library.

The data displayed are the existing NGFW Internet Secured links (primary and/or backup) with their exchanged traffic. If the NGFW Internet Secured service is not active, the report will contain no information.

Parameters include volume (In/Out), throughput in bits/second and percentage of subscribed bandwidth.

Dashboard analysis examples ~ “Secure Internet Analysis - Traffic In/Out Overview”





## 4 Annex: Glossary

Terminology	Definition
Home page	LiveSP's default landing page, specific to the customer or user profile, and providing the most important general statistics, with the option of navigating to dashboards for more detail.
Dashboard	The LiveSP module enables users to navigate between predefined and organized dashboards, to offer different perspectives on the statistics collected.
Report	The LiveSP module enables statistical data to be presented in an attractive, executive-level format. These presentations can be assigned to specific customer profiles and can be converted into PDF documents on demand.
SDWAN	A network overlay on WAN transport networks (Internet, MPLS, etc.), managed by an orchestrator and capable of dynamically adapting routes to heavy traffic depending on network performance (example of SD-WAN providers: Cisco SDWAN, Nokia Nuage, Fortinet Secure SDWAN).
Local Internet Breakout	Often also referred to as DIA (Direct Internet Access), in the context of SD-WAN networks: characterizes traffic flowing directly to the Internet at an ancillary site (the alternative being that this traffic is first transferred to a proxy at a central site via the SD-WAN layer for centralized filtering purposes, for example).
WAN	Network interconnecting remote sites, either via the Internet or using a central service provider network.
WAN Link	Connection point between a customer's site and the WAN provided by the service provider.
Virtual routing & Forwarding (VRF)	Allows multiple routing instances to be configured on a single Layer 3 router or switch: the aim is to separate customer traffic and routing while using the same hardware.
Viewpoint	Notion specific to LiveSP: aggregation of interfaces on the CPE, configured as IPFIX observation points. An observation point can be located either on the LAN side, or on the WAN side.  In practice, under Explore, the Viewpoint corresponds to the WAN Link
Network	A network is a parameter used to identify the network being reported on: <ul style="list-style-type: none"><li>o Explore: full interface</li><li>o Intranet xxx: sub-interface (linked to VRF xxx)</li><li>o Internet: sub-interface (linked to VRF Internet), this is your Internet access.</li></ul>
Edge Device	An edge device is a type of networking device that generally connects an internal local area network (LAN) to an external wide area network (WAN) or the Internet.  It provides interconnectivity and traffic translation between the different networks at their edges or network boundaries.



<b>Provider Edge (PE)</b>	Router located at the edge of the service provider's core data network, to which CPE WAN links generally connect.
<b>CPE</b>	Typically a router located at the edge of a customer's site, with at least one WAN link, which connects the customer's local network to the service provider's WAN.
<b>LAN</b>	Generally, the network area is limited to one branch of a company.
<b>VLAN</b>	Isolated, partitioned broadcast domain in a computer network at the data link layer (OSI Layer 2).
<b>NBAR2</b>	NBAR2 is Cisco's latest generation of NBAR, offering a higher level of traffic classification based on its Deep Packet Inspection (DPI) engine. With over 1000 application signatures and constantly updated protocol packs, NBAR2 has the added advantage of identifying and matching multiple applications on a group basis. For example, POP3, SMTP, MS Exchange, IMAP and Gmail are all part of the "email" group.
<b>Dashlet</b>	A basic element of reports, homepages and dashboards: for example, a timeline, table, pie chart or bar chart.
<b>DSCP</b>	DSCP (Differentiated Services Code Point) is a means of classifying and managing network traffic and providing quality of service (QoS) in modern Layer 3 IP networks. It uses the 6-bit DS (Differentiated Services) field in the IP header to classify packets. Differentiated Services (DiffServ) is a computer network architecture that specifies a simple, scalable mechanism for classifying and managing network traffic and providing Quality of Service (QoS) on modern IP networks.
<b>Percentile</b>	A percentile value is processed on the basis of two inputs: a collection of numerical values and a number between 0 and 1 called rank. The 95th percentile (rank 0.95) of a list of numbers, for example, is the value below which 95% of the elements in the input collection can still be found. It is very useful and efficient for statistical analysis, and can be applied in particular to network capacity reports, in order to ignore the extreme values/peaks sometimes encountered in measurements.
<b>IPSLA</b>	IP SLA (Internet Protocol Service Level Agreement) is a feature that enables IT professionals to collect information on network performance in real time. This feature continuously collects data on items such as response times, latency, jitter and packet loss. This not only provides the network administrator with basic information on network performance, but also enables him or her to check Quality of Service (QoS) levels and quickly identify the source of a problem in the event of a drop in performance levels.
<b>Key Performance Indicator (KPI)</b>	Used to evaluate the success of an organization or of a particular activity (projects, programs, products and other initiatives) in which it is engaged.
<b>Class of Service (CoS)</b>	A way of managing traffic in a network by grouping similar types of traffic (e.g. email, streaming video, voice, large file transfer) and treating each type as a class with its own level of service priority.
<b>Alert / event</b>	State of an alarm trigger on a specific element, with a lifetime: from a specific timestamp ("alert raise event") to another timestamp ("alert stop event").



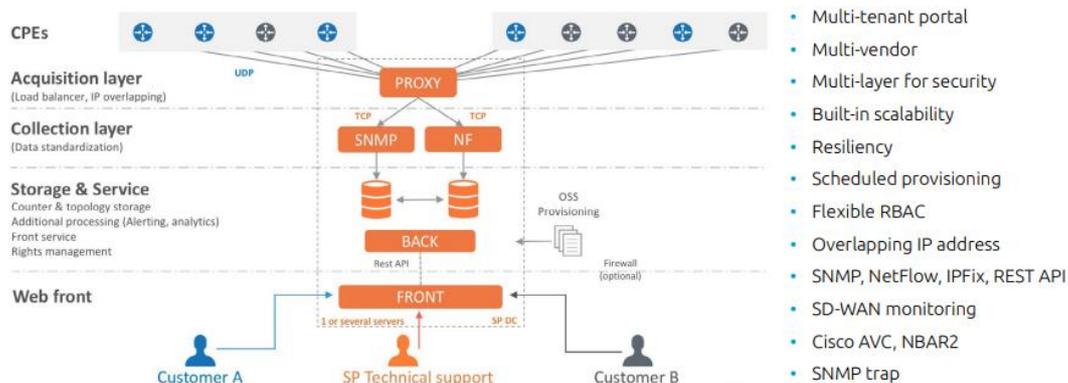
Application	Networked IP traffic (packets) sharing common characteristics that unite them for a common purpose, such as the web, peer-to-peer, file transfer, email, etc. Applications can be further refined using a combination of criteria: transport server port, payload content, traffic behavior, specific domain for web applications, specific codecs for video applications, etc.
Application category	Cluster type for applications in LiveSP. First-level categorization for each application, provided in the Cisco NBAR Protocol Pack dictionary.  Examples: browsing, email, file sharing, games, instant messaging, voice and video, etc.
Application group (Relevance)	Cluster type for applications in LiveSP. Categorization of business relevance (can be business, leisure or uncategorized).
Area / cluster	Notion specific to LiveSP. A grouping of free customer site criteria. Usually geographic (e.g. East Asia, North Vancouver) or organizational (e.g. data centers, regional headquarters).
DPI/AVC Deep Packet Inspection	Generic name for application recognition engines installed in routers: Performance routing and QoS policies can be defined by application, category or business relevance, and Netflow information can be exported by application for reporting purposes.
Flexible NetFlow (FNF)	Netflow based on configurable templates (available with Netflow protocol versions 9 and 10).
Internet Protocol Flow Information Export (IPFIX)	Industry standard for Netflow (equivalent to Netflow v10)
Multi-Tenant (MT)	A service can be described as multi-client when, while being deployed only once in a specific location, it can provide dedicated environments and a guarantee of data isolation (or confidentiality) to several organizations.
Simple Network Management Protocol (SNMP)	Network protocol used to collect information on a piece of equipment (router).
User Datagram Protocol (UDP)	Layer 4 transport mechanism. Connectionless transport layer protocol.
Transmission Control Protocol (TCP)	Reliable layer 4 transport mechanism.
Object Identifier (OID)	Universal object identifier corresponding to a node in the OID tree or hierarchy. It is formally defined using the ITU OID standard, X.660.  Applications: LDAP schemas, SNMP MIB databases, Enterprise PEN numbers in IANA databases (under node 1.3.6.1.4.1), etc.

## 5 Annex: How is the data collected?

The reporting solution collects data from a variety of sources:

- SNMP
  - Reading OIDs (aka "MIBs") directly from routers/switches
- IPFIX (also known as "Netflow")
  - The router sends Call Data Records (CDR) to the reporting solution
- API (Application Programming Interface)
  - LiveSP is connected to systems management and performs a DB-query in the proprietary DB
  - There is an API for each type of system (SD-WAN Nokia Nuage, SD-WAN Cisco VSD, SD-WAN Fortinet).
- Hybrid
  - Reporting uses several of the above mechanisms to consolidate data

### Architecture



**Data is collected** every 5 minutes. All data collection must be completed within this period, otherwise it may be considered as missing (missing information in reports). 5' time slots are integrated into the reporting tool.

**Application-level information** is provided by the IPFIX functionality activated in the router on the sub-interface(s) connected to a specific intranet/internet/extranet network. To bring different technologies together, the product links applications to its "Viewpoint" generator element. In the case of **Netflow Reporting** on Explore, this element is in fact a WAN Link. For technical reasons, the difference is maintained in the reports.

Formulas are applied. For example, the volume in 5' comes from the following calculation:

Volume = Volume at Tx - Volume at T "5 minutes before".

These values are stored in the reporting solution. An aggregation is made in hours and days after a certain time. The retention and granularity periods are as follows:

- 5-minute granularity over a 32-day retention period
- 60-minute granularity over a 92-day retention period
- 24-hour granularity over a retention period of 365 days

## 6 Annex: Table of alert thresholds by severity

Metric	Topology Context	Severity	Threshold	Period	Occurrence
Interface is Down	WAN Link	WARNING	> 99 %	1 hour	6
Bandwidth Usage In	WAN Link	CRITICAL	> 80 %	1 hour	12
Bandwidth Usage In	WAN Link	WARNING	> 60 %	1 hour	6
Bandwidth Usage Out	WAN Link	CRITICAL	> 80 %	1 hour	12
Bandwidth Usage Out	WAN Link	WARNING	> 60 %	1 hour	6
CPU Usage	CPE	CRITICAL	> 80 %	1 hour	12
CPU Usage	CPE	WARNING	> 50 %	1 hour	6
CPU Data Plane	CPE	CRITICAL	> 80	1 hour	12
CPU Data Plane	CPE	WARNING	> 50	1 hour	6
Memory Usage	CPE	CRITICAL	> 90 %	1 hour	12
Jitter	CPE, Classname	WARNING	> Some Classname	1 hour	6
Loss Rate	CPE, Classname	WARNING	> Some Classname	1 hour	6
Transit Delay	CPE, Classname	WARNING	> Some Classname	1 hour	6

For example, for the "Load IN / OUT" parameter, an event will be considered critical after 12 successive samples reaching 80% of bandwidth usage in the past hour.

## 7 Annex: Interpretation of error messages

"No data matching this time period. "	This means that there is no data available for the selected time period.
"Your widget cannot be processed. Check its configuration. "	<p>This usually occurs when the request takes too long.</p> <p>Try refreshing your browser and/or reducing the number of items selected.</p>
"Too much data for this widget, please refine your request".	For example, a granularity of 5' is used for too long a period or when the number of samples to be processed is too large for the system's capacity. You need to reduce the number of items selected.
"Loop infinitely"	<p>An infinitely rotating wheel on the screen may indicate an internal error or loss of contact with the tool.</p> <p>Wait a while and try again.</p>
"Unexpected logout"	When you reach the tool and are unexpectedly logged out, contact the Proximus Service Desk.
"This page isn't working right now Error XXX"	Try again after a few minutes. Report the error to the Proximus Service Desk if the problem persists.
"You don't have access to this service"	Contact MyProximus support or your Service Level Manager
Add User Cxxxxxxxx configuration error!	The customer number used has not subscribed to Explore Performance Reporting.

## 8 Annex: List of reports according to reporting options.

BASIC		
Home	Dashboards	Reports
Proximus Explore Basic Reporting 1 month	Proximus Explore Basic Reporting 1 week	Basic Network Summary (5 min)
Proximus Explore Basic Reporting 1 week	Proximus Explore Basic Reporting 24 hours	Basic Network Summary (auto)
Proximus Explore Basic Reporting 24 hours	Cloud Analysis - Traffic In/Out Overview	Basic Site Summary (5 min)
	Cloud Summary - Traffic In/Out Overview	Basic Site Summary (auto)
	Secure Internet Analysis - Traffic In/Out Overview	Basic Site Summary (daily)
	Secure Internet Summary - Traffic In/Out Overview	Cloud Traffic Overview
		Secure Internet – Traffic Report

ADVANCED		
Home	Dashboards	Reports
Documentation - User Guide	Advanced Analysis - Access to Explore	Advanced Network Summary (5 min)
Proximus Explore Advanced Reporting 1 month	Advanced Analysis - CoS Throughput	Advanced Network Summary (auto)
Proximus Explore Advanced Reporting 1 week	Advanced Analysis - IPSLA Performance *	Advanced Site IPSLA Summary (5 min) *
Proximus Explore Advanced Reporting 24 hours	Advanced Analysis - Router	Advanced Site IPSLA Summary (auto) *
	Advanced Analysis - Site	Advanced Site Summary (5 min)
	Advanced Analysis - Volume Distribution	Advanced Site Summary (auto)
	Advanced Summary - Access to Explore	Advanced Site Summary (daily)
	Advanced Summary - IPSLA Performance *	Cloud Traffic Overview
	Advanced Summary - Percentile	Advanced Monthly WAN Link Events
	Advanced Summary - Reporting Inventory	Advanced Site, WAN Link Overview
	Cloud Analysis - Traffic In/Out Overview	Secure Internet – Traffic Report
	Cloud Summary - Traffic In/Out Overview	
	Secure Internet Analysis - Traffic In/Out Overview	
	Secure Internet Summary - Traffic In/Out Overview	

## NETFLOW

NETFLOW		
Home	Dashboards	Reports
Documentation - User Guide	Cloud Analysis - Traffic In/Out Overview	Application Summary
Proximus Explore Netflow Reporting 1 month	Cloud Summary - Traffic In/Out Overview	Cloud Traffic Overview
Proximus Explore Netflow Reporting 1 week	Netflow Analysis - Access to Explore	Netflow Network Summary (5 min)
Proximus Explore Netflow Reporting 24 hours	Netflow Analysis - All Applications	Netflow Network Summary (auto)
	Netflow Analysis - Application	Netflow Site Summary (5 min)
	Netflow Analysis - Application Throughput per Co...	Netflow Site Summary (5 min) (with CoS analysis)
	Netflow Analysis - Application Traffic over Cla...	Netflow Site Summary (auto)
	Netflow Analysis - Application Volume	Netflow Site Summary (daily)
	Netflow Analysis - CoS Throughput (Netflow)	Netflow Monthly WAN Link Events
	Netflow Analysis - CoS Throughput (snmp)	Netflow Site, WAN Link Overview
	Netflow Analysis - IPSLA Performance *	Secure Internet – Traffic Report
	Netflow Analysis - Router	
	Netflow Analysis - Site	
	Netflow Analysis - Site, Application Volume per ...	
	Netflow Analysis - Volume Distribution	
	Netflow Summary - Access to Explore	
	Netflow Summary - Application Throughput per CoS	
	Netflow Summary - IPSLA Performance *	
	Netflow Summary - Reporting Inventory	
	Netflow Summary - Site, Application Volume per E...	
	Cloud Analysis - Traffic In/Out Overview	
	Cloud Summary - Traffic In/Out Overview	
	Secure Internet Analysis - Traffic In/Out Overview	
	Secure Internet Summary - Traffic In/Out Overview	

<b>APPLICATION</b>		
Home	Dashboards	Reports
Documentation - User Guide	Application Analysis - Access to Explore	Application Network Summary
Proximus Explore Application Reporting 1 month	Application Analysis - All Applications	Application Performance Summary
Proximus Explore Application Reporting 1 week	Application Analysis - Application	Application Site Summary (5 min)
Proximus Explore Application Reporting 24 hours	Application Analysis - Application Throughput pe...	Application Site Summary (auto)
	Application Analysis - Application Traffic over...	Application Site Summary (daily)
	Application Analysis - CoS Throughput (Netflow)	Cloud Traffic Overview
	Application Analysis - CoS Throughput (snmp)	Application Monthly WAN Link Events
	Application Analysis - IPSLA Performanc *	Application Site, WAN Link Overview
	Application Analysis - Router	Secure Internet – Traffic Report
	Application Analysis - Site	
	Application Analysis - Site, Application Volume ...	
	Application Analysis - Site/Appli, Health-Check	
	Application Analysis - Volume Distribution	
	Application Summary - Access to Explore	
	Application Summary - Application Throughput per...	
	Application Summary - IPSLA Performance *	
	Application Summary - Reporting Inventory	
	Application Summary - Site, Application Volume p...	
	Cloud Analysis - Traffic In/Out Overview	
	Cloud Summary - Traffic In/Out Overview	
	Secure Internet Analysis - Traffic In/Out Overview	
	Secure Internet Summary - Traffic In/Out Overview	

\* (the IPSLA (QOS) dashlet is only available for multi-site configurations).