

streamcore

**STREAMACCESS - STREAMDASHBOARD -
STREAMMAP GUIDE**



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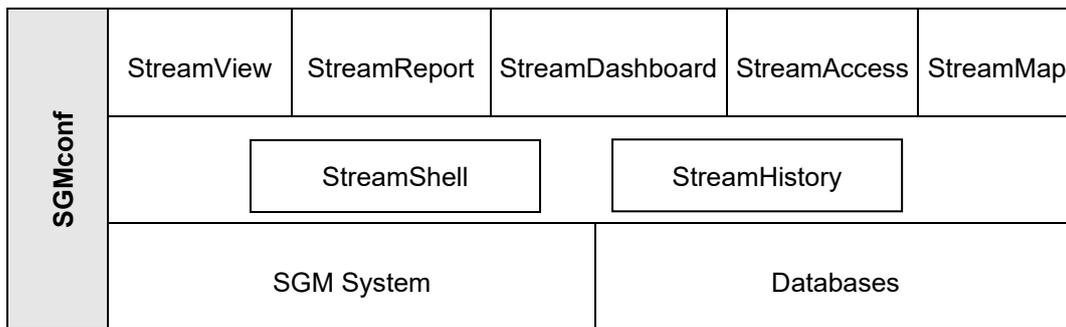
1 Introduction

1.1 STREAMGROOMER MANAGER (SGM)

The StreamGroomer Manager (SGM), which is available as a specific hardware platform hosts the following software applications:

- “**SGMconf**”: SGM management application
- “**SGM System**”: SGM operating system
- “**Databases**”: coherent sets of data associated with one or several StreamGroomers
- “**StreamShell**”: command mode (cli) on which all the applications are interfaced
- “**StreamHistory**”: access module to long-term data and graph generation
- “**StreamView**”: configuration and supervision application in graphic mode
- “**StreamReport**”: application for editing PDF reports
- “**StreamDashboard**”: application for managing personalized web dashboards
- “**StreamAccess**”: application for managing flexible access rights to the web applications
- “**StreamMap**”: application for alarms and performance summary display in a geographic map

This software suite can be represented as follows:



1. Figure 1 – List of software in the SGM

The SGM databases group the parameters and statistics associated with one or more StreamGroomers into a coherent whole. Management of these databases (i.e., creation, deletion, back-up, and restoration) is handled through the SGMconf application. See the document entitled “SGMconf guide” for more details.

A database is used through the middleware (StreamShell, StreamHistory) by the applications (StreamView, StreamReport, StreamDashboard, StreamAccess, StreamMap) in order to configure and manage all Streamcore solution features.

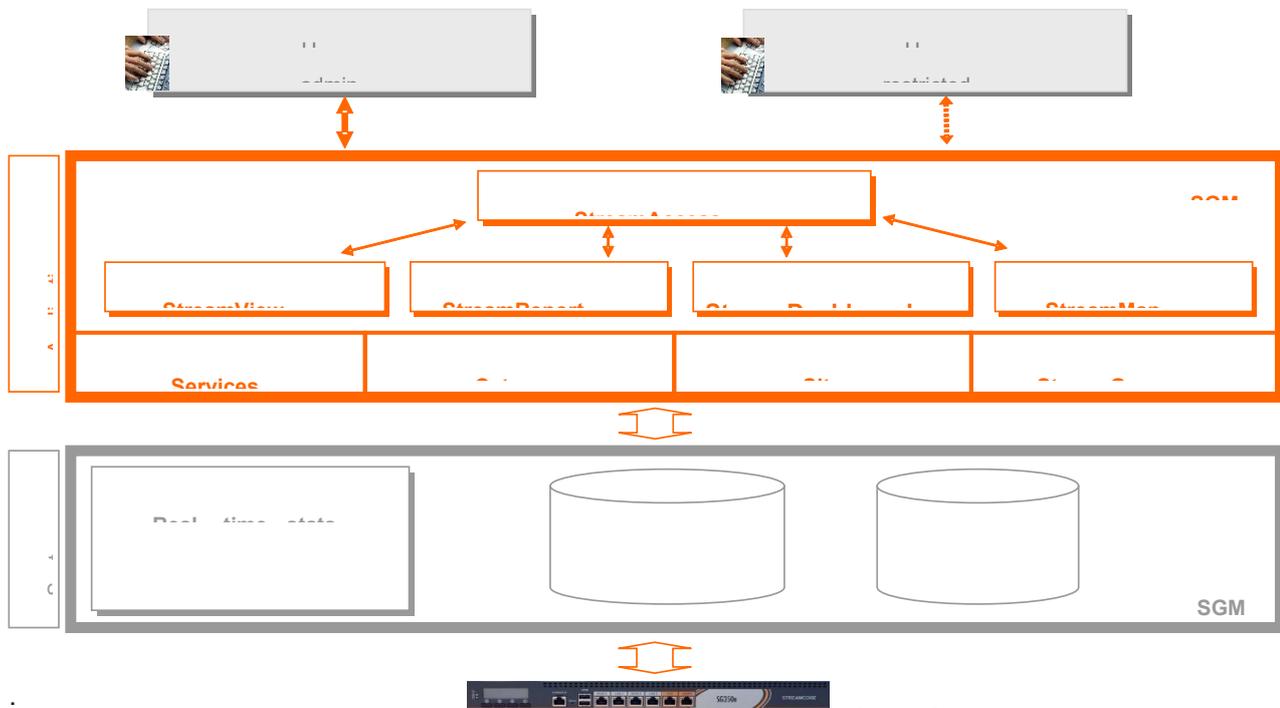
1.2 THE STREAMACCESS APPLICATION

StreamAccess is a web application to manage flexible access rights.

The authentication process for any user can be performed locally on the SGM or through a RADIUS or a LDAP server.

The authorization process is performed locally on the SGM, and depends on the type of user:

- **Admin users:**
 - Unrestricted Read/Write rights for the 4 main applications: StreamView, StreamReport, StreamDashboard, StreamMap.
 - Unrestricted access to the Service Tree or StreamGroomers Tree in the StreamView/StreamReport applications.
 - StreamAccess administration to manage restricted users' accounts and rights.
- **Restricted users:**
 - Access is authorized according to the rights defined in StreamAccess by Admin users.
 - Restricted rights can be customized (no access, read-only, read/write...) for the 4 main applications: StreamView, StreamReport, StreamDashboard and StreamMap.
 - As an option, the access level on the Unified Mapping Tree (UMT) or StreamGroomers Tree in the StreamView/StreamReport applications can also be customized (for instance restricted to a single category, a site, or just to Service or StreamGroomers).



1.3 THE STREAMDASHBOARD APPLICATION

StreamDashboard is a web application to create customized web portals with a single or a set of dashboards, displaying a selection of long-term graphs. Admin or restricted users can have access to these dashboards.

These dashboards are provisioned through the StreamAccess application by Admin users.

Dashboard is filled by graphs directly picked from StreamView.

1.4 THE STREAMMAP APPLICATION

StreamMap is a web application to display network / application / VoIP / Video usage and performance in a geographical map based on Google Maps technology. Information is updated every 10 minutes, synchronized with statistics polling.

Sites (equipped or not) are automatically located on the map based on their mailing address.

2 Launching StreamAccess, StreamDashboard or StreamMap

A database can be logged into using the following methods:

- After the desired browser has been started, different URLs allow direct or indirect access.
 - **Direct access:** `http://<@IP-SGM>/streamview/<database_name>/`
with `<@IP-SGM>`: the SGM IP address (the name assigned by DNS can also be used)
`<database_name>`: the name of the database, as defined when it was created with the SGMconf application
 - **Indirect access:** `http://<@IP-SGM>/`
with `<@IP-SGM>`: the SGM IP address (the name assigned by DNS can also be used).
The SGM welcome page then offers links for launching the various applications. Click on the desired database.

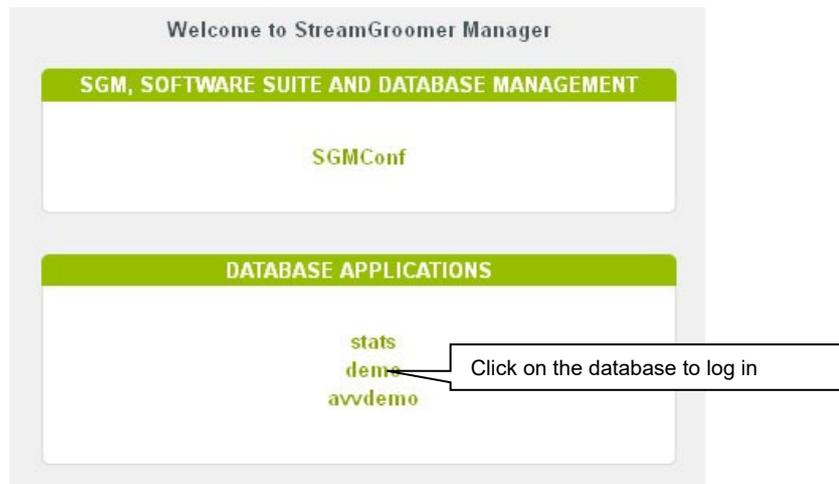


Figure 2 – Indirect access via the SGM welcome screen



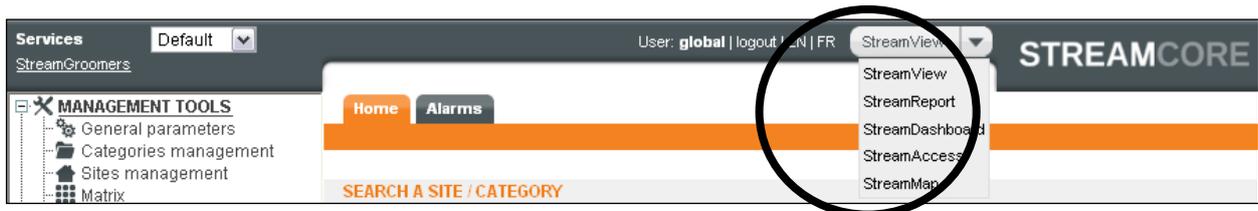
When “http” is replaced by “https” in the preceding URLs, the connection between the browser and SGM becomes secure.

- In the welcome screen, type your user name and password.
Note: when a new database is accessed for the first time, use **global** for the user name and no password.
- By default, the StreamView application will be launched. In order to switch to StreamAccess, StreamDashboard or StreamMap, select it in the Application selection menu in the “Upper frame” :

User:

Password:

EN | FR



3 StreamAccess

3.1 UNDERSTANDING THE WEB INTERFACE

The various frames in the StreamAccess application appear in the following form:

The screenshot shows the StreamAccess application interface. At the top, there is a header with 'User: global | logout | EN | FR' and a dropdown menu for 'StreamAccess'. The 'STREAMCORE' logo is on the right. Below the header, there are four tabs: 'Users', 'Dashboard admin', 'StreamView profiles', and 'Logs'. A callout 'Tab selection' points to these tabs. The main content area is a table with columns: 'Users', 'StreamView access rights', 'StreamReport access rights', 'StreamDashboard access rights', 'StreamMap access rights', and 'Actions'. A callout 'Upper frame' points to the top navigation area. A callout 'Data frame' points to the table. A 'New User' button is located below the table.

Users	StreamView access rights	StreamReport access rights	StreamDashboard access rights	StreamMap access rights	Actions
global	Read/Write Services+StreamGroomers	Read/Write Services+StreamGroomers	All dashboards	Services+StreamGroomers	[Edit] [Delete]
Application	Read-Only with profile Profile : All the graphs Single site : internet	Read only Single site : internet		No access	[Edit] [Delete]
Citrix_Manager	No access	No access	[Icon] Citrix_view	No access	[Edit] [Delete]
bertrand.vincens	Read only Single site : PC_Portable	Read/Write Single site : PC_Portable	[Icon] Default view	Single site	[Edit] [Delete]

Four tabs are available:

TAB	DEFINITION
Users	Add or edit user accounts and define their access rights for StreamView, StreamReport, StreamDashboard and StreamMap
Dashboard admin	Define the dashboards displayed in StreamDashboard and associated with user accounts.
StreamView profiles	Define subset of graphs or tabs available in StreamView and associated with user accounts.
Logs	Follow users' access and operations

3.2 USERS MANAGEMENT

3.2.1 Users Summary

The **Users** tab displays a page with the user accounts created and the associated rights for each application.

Users	StreamView access rights	StreamReport access rights	StreamDashboard access rights	StreamMap access rights	Actions
global	Read/Write Services+StreamGroomers	Read/Write Services+StreamGroomers	All dashboards	Services+StreamGroomers	
Application	Read-Only with profile Profile : All the graphs Single site : internet	Read only Single site : internet		No access	
Citrix_Manager	No access	No access	Citrix_view	No access	
bertrand.vincens	Read only Single site : PC_Portable	Read only Single site : PC_Portable	Default view	Single site	

[New User](#)

When the database is created, only one account is created by default: **Global**. You cannot edit this account (as long as there are no other Admin users): it has the full access rights to all the applications.

3.2.2 Creating an "Admin" Account

To create an "Admin" user account:

2. Click **New User** and select User type **Admin**
3. Fill in the user form (ID, authentication parameters, timezone, StreamMap access)
4. Click **Create**
- 1.

User Form

ID : global

User type : Admin

External authentication before : LDAP

Local authentication : no

Local password : LDAP

Confirm :

Time zone : Europe/Paris

Activated : yes : no :

StreamMap access : yes : no :

[Create](#) [Back to summary page](#)

3.2.3 Creating a "Restricted" Account

To create a “Restricted” user account:

1. Click **New User** and select User type **Restricted**,
2. Fill in the user form (ID, authentication parameters, timezone),
3. Select the access level of the user,
4. Fill in the user access rights per application (restricted to the level defined before):
 - a. *StreamView*: select the access mode (Read-Only, Read/Write¹, Read-Only with Profile²)
 - b. *StreamReport*: select the access mode (Read-Only, Read/Write)
 - c. *StreamDashboard*: select the dashboards available for the user
 - d. *StreamMap*: select the access rights
5. Click **Create**

- 2.
- 3.

The screenshot shows a web form for creating a user. At the top, there are tabs for 'Users', 'Dashboard admin', 'StreamView profiles', and 'Logs'. The form is divided into sections: 'User Form' and 'Access level'. The 'User Form' section includes fields for ID (App_User), User type (Restricted), Authentication (local, RADIUS, LDAP), Local password (twice), Time zone (Europe/Paris), and Activated status. The 'Access level' section includes a dropdown for Level (Services+StreamGroomers) and several rows for application access rights (StreamView, StreamReport, StreamDashboard, StreamMap) with 'yes' and 'no' radio buttons. At the bottom, there are 'Create' and 'Back to summary page' buttons. Numbered callouts 1-8 provide instructions for each step of the process.

¹ Not available if the Tree level is restricted to a category or a single site
² Available only if the Tree level is restricted to Service, a category or a single site.

3.2.4 Editing or Deleting an Account

You can edit existing accounts from the summary window:

Users	StreamView access rights	StreamReport access rights	StreamDashboard access rights	StreamMap access rights	Actions
global	Read/Write Services+StreamGroomers	Read/Write Services+StreamGroomers	All dashboards	Services+StreamGroomers	
Application	Read-Only with profile : Profile : All the graphs Single site : internet	Read only Single site : internet		No access	
Citrix_Manager	No access	No access	Citrix_view	No access	
bertrand.vincens	Read only Single site : PC_Portable	Read/Write Single site : PC_Portable	Default view	Single site	

New User



Users	Dashboard admin	StreamView profiles	Logs
User Form			
ID : <input type="text" value="bertrand.vincens"/>			
User type : <input type="text" value="Restricted"/>			
Authentication : local : <input checked="" type="radio"/> RADIUS : <input type="radio"/> LDAP : <input type="radio"/>			
Local password : <input type="password" value="••••••"/> leave empty to keep existing password			
Confirm : <input type="password" value="••••••"/>			
Time zone : <input type="text" value="Europe/Paris"/> for long-term stats			
Activated : yes : <input checked="" type="radio"/> no : <input type="radio"/>			
Access level			
Level : <input type="text" value="Single site"/>			
Site : <input type="text" value="PC_Portable"/>			
StreamView access rights yes : <input checked="" type="radio"/> no : <input type="radio"/>			
StreamView mode : <input type="text" value="Read only"/>			
StreamReport access rights yes : <input checked="" type="radio"/> no : <input type="radio"/>			
StreamReport mode : <input type="text" value="Read/Write"/>			
StreamDashboard access yes : <input checked="" type="radio"/> no : <input type="radio"/>			
Available dashboards :		Selected dashboards :	
<input type="text" value="Citrix_view"/>	<input type="button" value="Add ->"/>	<input type="text" value="Default view"/>	<input type="button" value="-> Remove"/>
StreamMap access yes : <input checked="" type="radio"/> no : <input type="radio"/>			
<input type="button" value="Create"/> <input type="button" value="Back to summary page"/>			



If you do not want to change the password, leave the corresponding fields empty.

3.3 DASHBOARD ADMINISTRATION

3.3.1 Dashboard Summary

If you click on the **Dashboard admin** tab, StreamAccess displays a page with the Dashboards created and the associated users.

Dashboards	Description	Users	Actions
Citrix_view		Citrix_Manager	
Default view		bertrand.vincens	

When creating the database, StreamAccess creates a **Default view** containing two empty pages ([page 1](#) and [page 2](#)).

3.3.2 Creating a Dashboard and its Pages

To create a Dashboard:

1. Click New dashboard
 2. Fill in the "New Dashboard" form and click **Create**
- 4.

5.

Create the Dashboard

3. A form completes the record, so you can define the pages in the dashboard: click **New Page** to create a new page
- 6.

7.

...

4. Enter the page name and a description (optional)

8.

The screenshot shows a web interface with a navigation bar at the top containing 'Users', 'Dashboard admin', 'StreamView profiles', and 'Logs'. Below the navigation bar is a header section with a document icon and the word 'Page'. The main content area contains two text input fields: 'Page's name :' and 'Description :'. At the bottom of the form are two buttons: 'Create' and 'Cancel'.

10.

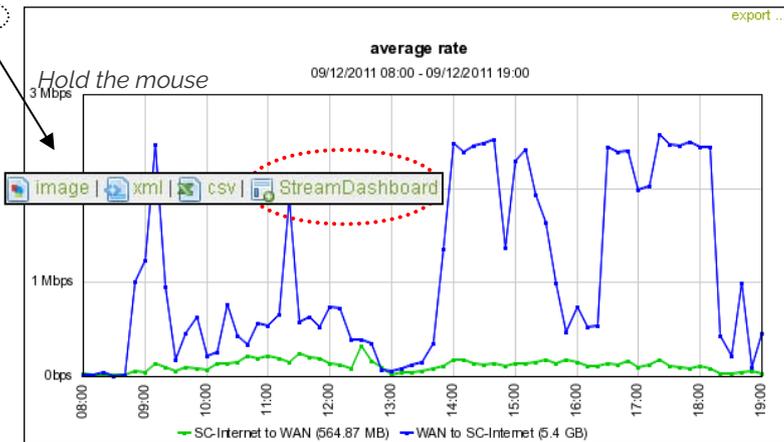
5. Click **Create** to confirm

The screenshot shows the 'Page' creation form after submission. The 'dashboard:' dropdown is set to 'Example'. The 'Name' field contains 'Example' and the 'Description' field contains 'Performance Summary'. Below the form are two buttons: 'Submit' and 'Back to summary page'. Below the form is a list of pages. The first entry is 'Page Example (This page is an example)' with a document icon, a right-pointing arrow, an edit icon, and a delete icon. Below the list are two buttons: 'New Page' and 'Back to summary page'. An arrow points from the 'Page Example' entry to the 'New Page' button.

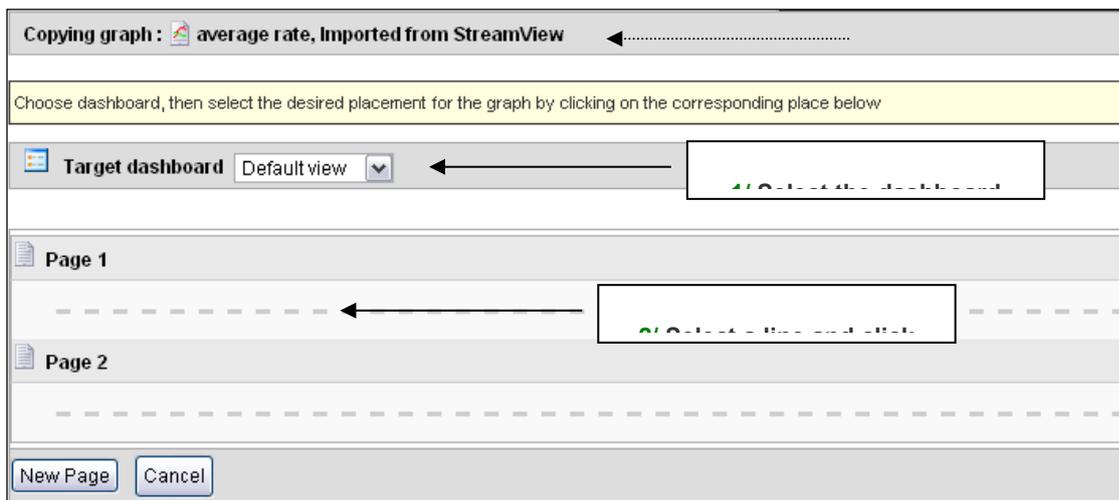
11.

3.3.3 Adding Graphs to Pages

1. In StreamView, display the graph (**Long-term stats** tab for a rule, a site or a category)
2. Click **export > StreamDashboard**:



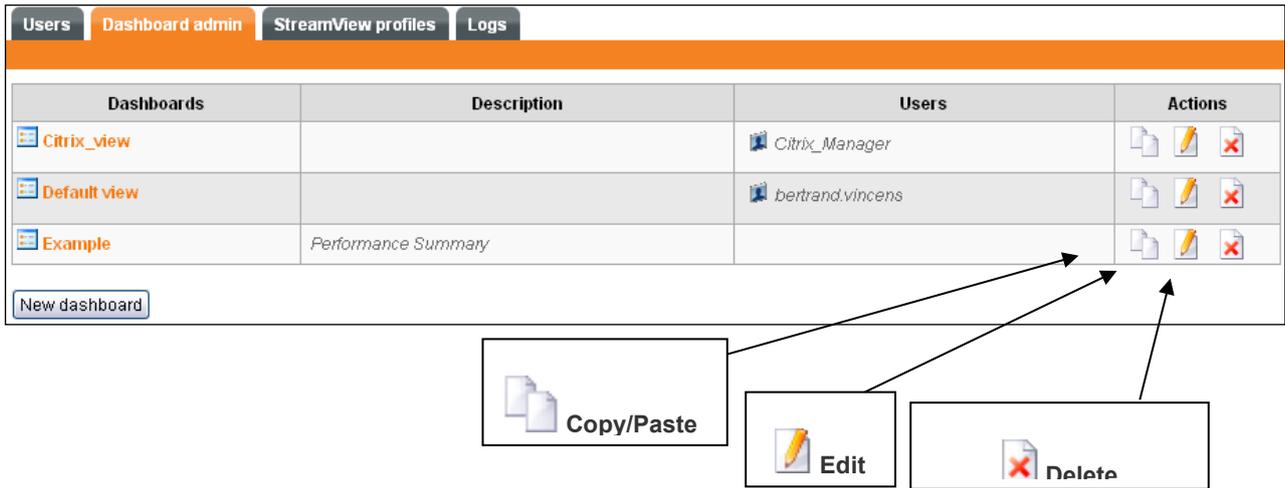
3. Add the graph to a page in the view by clicking one of the dotted gray lines (it becomes a straight line):



4. Repeat as often as necessary.

3.3.4 Copying, Editing or Deleting a Dashboard and its Pages

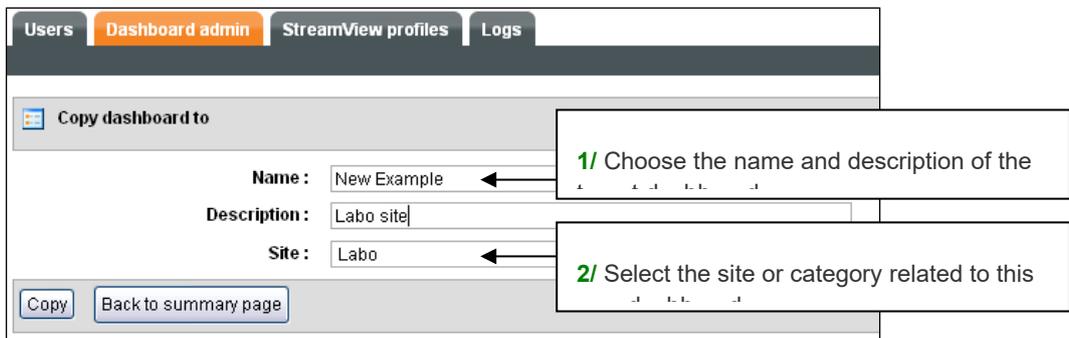
Once you have configured the dashboards, you can copy, edit or delete them. To do so, return to the summary window:



3.3.4.1 COPY A DASHBOARD

You can duplicate a dashboard when all the graphs within the dashboard belong to a single site or a single category. Just copy/paste this dashboard to another site or category. Repeat as often as necessary.

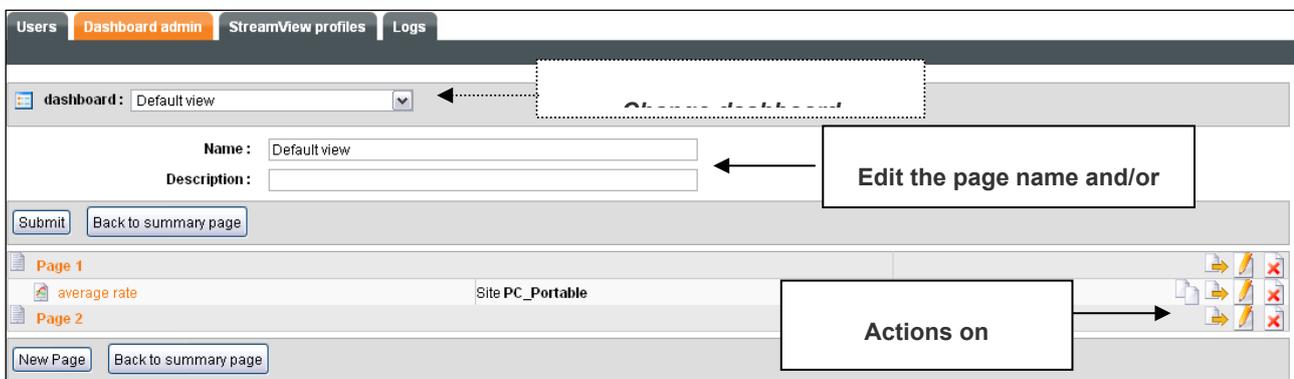
A dashboard cannot be copied in case graphs belong to several sites or categories.



3.3.4.2 EDIT A DASHBOARD

Click this icon to display the dashboard edit area:

- Change the dashboard name
- Change the dashboard description
- Add/Remove/Move/Copy pages or graphs



You can do the

following with **Pages**:



The pages will be displayed in the portal using the order specified in the view edit page. To change the order, click on this icon. You can also change the view where the page will be displayed.

Moving page : Example / Page Example

Choose dashboard, then select the desired placement for the page by clicking on the corresponding place below

Target dashboard:

1/ Choose the target dashboard (by default this is the

Page 1

average rate Site PC_Portable

Page 2



Click on this icon to display the page edit area:

- Change the page name
- Change the page description

2/ Click one of the dotted gray lines to define the tab position (in this example: before of after the Access Link

Users **Dashboard admin** **StreamView profiles** **Logs**

Page

Page's name :

Description :

You can do the following with **Graphs**:



You can insert a graph in several dashboards. To make the graph appear on a page on another dashboard.

2/ Click one of the dotted gray lines to insert it in

You can also move a graph from one page to another or to a page in another dashboard, using the same method as for a copy.



Click on this icon to edit the graph description. Note that you cannot change the graph name or its source.

3.3.4.3 DELETE A DASHBOARD

Delete a dashboard by clicking on the delete icon from the summary page.

3.4 STREAMVIEW PROFILES

3.4.1 StreamView Profiles Summary

StreamView Profiles are used to build a restricted view to some graphs/indicators in StreamView. They can be applied to specific users when they have a restricted access to Services, Category or Single site.

If you click on the **StreamView profiles** tab, StreamAccess displays a page with the Profiles created and the associated users.

Profiles	Description	Users	Actions
All the graphs	All available graphs	Application	

New profile

When the

database is created, only one profile is created by default: *All the graphs*. You cannot edit this profile: it allows access to all long-term graphs in StreamView.

3.4.2 Creating a Profile

To create a new StreamView profile:

1. Click **New profile**
2. Enter the page name and a description (optional)
3. Select StreamView tabs and subtabs that can be accessed by the user
4. Select the real-time and/or long-term graphs which will be displayed in StreamView for users with this profile in network, application or VoIP/video rules.

NEW PROFILE

Name :

Description :

Accessible tabs	
Parameters	<input type="checkbox"/>
Real-time stats.	<input type="checkbox"/>
Long-term stats.	<input checked="" type="checkbox"/>
Alarms	<input type="checkbox"/>
Troubleshooting	<input type="checkbox"/>
Category/site indicators	<input checked="" type="checkbox"/>
Network	<input checked="" type="checkbox"/>
Application	<input type="checkbox"/>
VoIP/Video	<input type="checkbox"/>
Optimization	<input type="checkbox"/>

Rule indicators					
▶ Rate	<input type="radio"/>	All	<input type="radio"/>	None	<input checked="" type="radio"/> Custom
Average rate					<input type="checkbox"/>
Maximum rate					<input type="checkbox"/>
Use rate					<input type="checkbox"/>
▶ Compression	<input type="radio"/>	All	<input checked="" type="radio"/>	None	<input type="radio"/> Custom
▶ Load	<input type="radio"/>	All	<input checked="" type="radio"/>	None	<input type="radio"/> Custom
▶ Frames	<input checked="" type="radio"/>	All	<input type="radio"/>	None	<input type="radio"/> Custom
▶ Performance - Network	<input checked="" type="radio"/>	All	<input type="radio"/>	None	<input type="radio"/> Custom

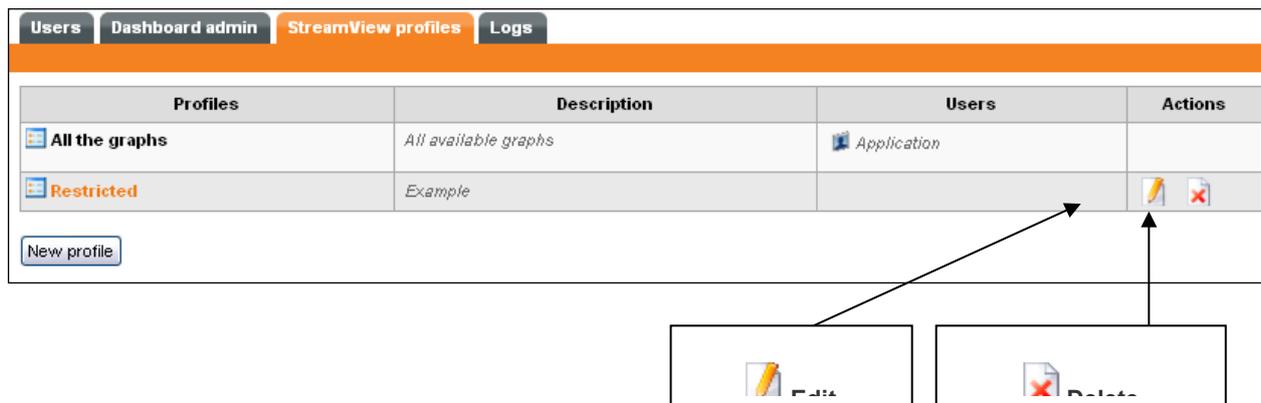
12.

5. Click **Submit** to confirm

13.

3.4.3 Editing or Deleting a Profile

You can edit existing accounts from the summary window:



3.5 LOGS

You can follow when users log in and check what operations are performed by admin users by clicking on the **Logs** tab.

You can extract specific commands:

- Per user
- Per command type (login, add, delete...)

More details about the different types of operations can also be displayed.

Users **Dashboard admin** **StreamView profiles** **Logs**

Selection : User : All Commands : All Last : All

View : User Object in the hierarchy Details New object

[Export current file >>](#) [Export old file >>](#)

Start time of current log file : 2011-11-28 10:30:05

Date	User	Command	Object in the hierarchy	Details
2011-12-01 17:02:18	global	LOGIN 172.16.5.50		
2011-12-01 10:53:09	global	LOGIN 172.16.0.65		
2011-11-30 15:31:16	global	LOGIN 172.16.0.169		
2011-11-29 18:24:09	global	INSTALL	sg SG350e	install conf --mirror=0
2011-11-29 18:22:29	global	INSTALL	sg SG350e	install conf --mirror=0

4 StreamDashboard

Once you have logged in, you can access your dashboards and associated indicators.

A form is displayed where you can:

- Select a dashboard
- Select the observation period (last few hours, day, week, month, year, custom period)
- Compare two different periods



Graphs computed for categories can take some time to be displayed.



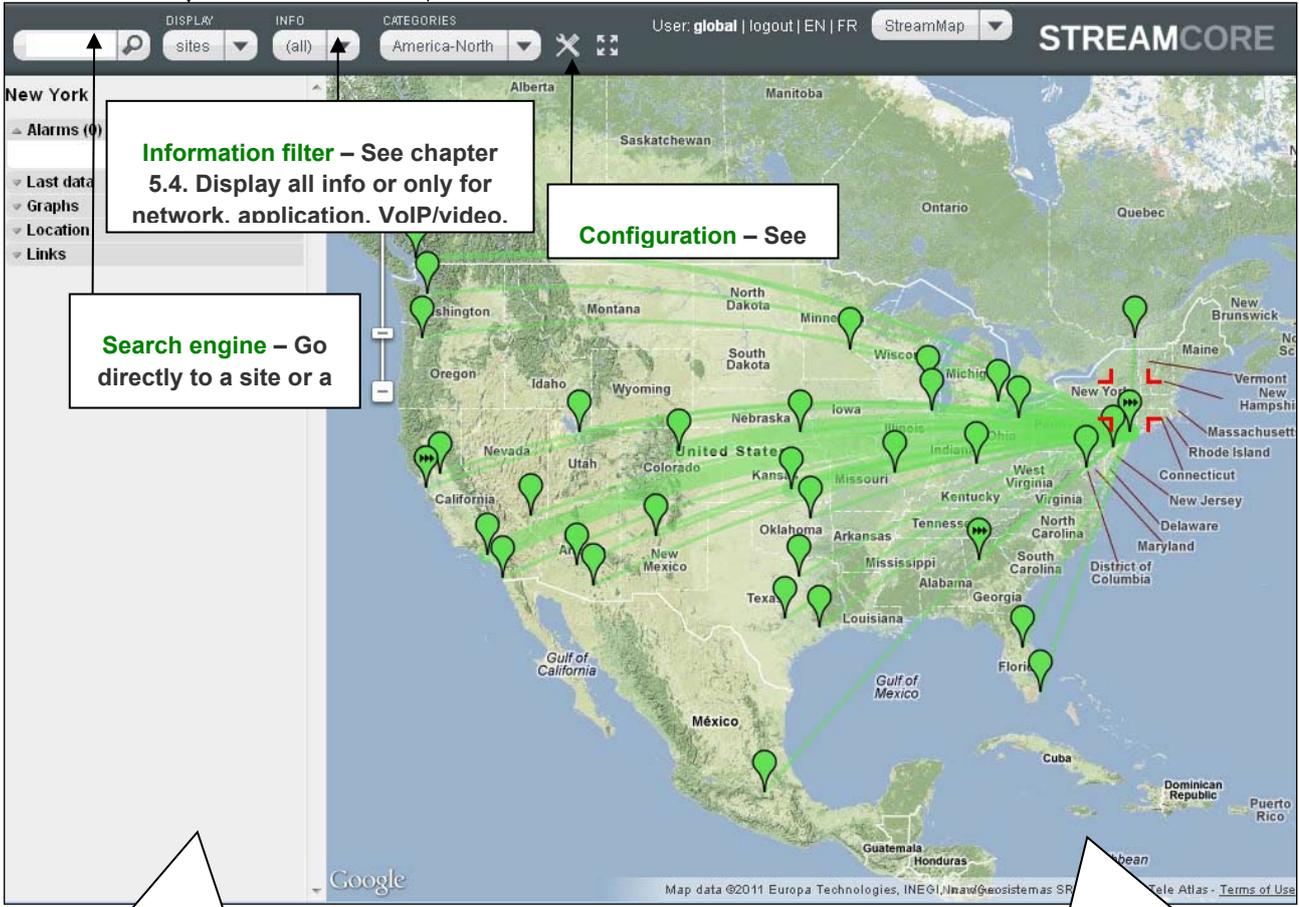
5 StreamMap

5.1 UNDERSTANDING THE WEB INTERFACE

Once you have logged in, different kinds of information are available, with drill-down capabilities in order to start with a very high level view on categories down to a link between two sites.

The upper frame offer different filters to select the kind of information to be displayed:

Object filters – See chapter 5.3.
Display categories or sites. For sites,



The screenshot shows the StreamMap web interface. At the top, there is a navigation bar with 'DISPLAY' (sites), 'INFO' ((all)), and 'CATEGORIES' (America-North). The user is logged in as 'global'. The main area is a map of North America with green location pins and connecting lines. A sidebar on the left lists 'Alarms (0)', 'Last data', 'Graphs', 'Location', and 'Links'. Several callout boxes provide additional information:

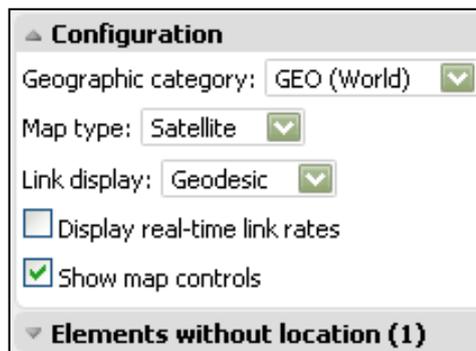
- Information filter** – See chapter 5.4. Display all info or only for network. application. VoIP/video.
- Configuration** – See
- Search engine** – Go directly to a site or a
- Information related to the selected object on the map:**
 - Alarms
 - Last 10 min. data
 - Long-term graph
 - Location
- Select an object on the map to display information**

5.2 CONFIGURATION

5.2.1 Parameters

To access StreamMap configuration parameters, click on the icon in the upper frame. The following parameters are then available in left frame:

- Geographic category: geographical category type for which categories are to be displayed in StreamMap.
- Map type: satellite, map, hybrid or terrain.
- Link display: straight, geodesic or none.
- Display real-time link rates: by checking this box the size links between sites will display the data rate measurement the last 10 minutes period (by default the size of the links between sites display the maximum capacity).
- Show map controls: to display the zoom control or not.

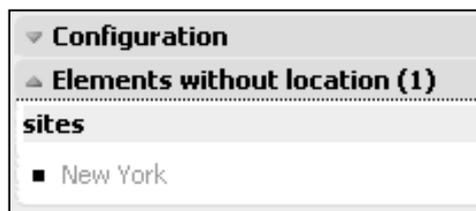


✕ the
of
over

5.2.2 Failed Locations

To access failed location by Google Maps, click on the icon ✕ in upper frame, and then on “Elements without locations” in the left frame. The list of sites and categories for which the address was automatically recognized by Google Maps will be displayed.

In order to update the address, click on the site or category and then change the location that has been defined.



the
not

5.2.3 Configure Location with GPS Coordinates

To locate a site or a category on StreamMap, it is possible to use its GPS coordinates.

The configuration of the site or category location has to be done on Streamview with one of these formats:

Type	Format
Degrees, Minutes & Seconds	N48 23 23 W4 29 06
Decimal Degrees	48.389744 -4.485168
GPS	N 48 23.385 W 4 29.110

Here is a useful website to find the GPS coordinates of a place:

<http://www.gpsvisualizer.com/geocode>



It is not possible to configure or modify GPS coordinates of a site or category on the location menu directly in StreamMap.

LAN SUBNETS

▶ Directly connected to WAN router(s):

Subnet	Mask	WAN router
172.16.0.0	255.255.0.0	

OTHER

- ▶ Location for StreamMap : 49.691 2.546
- ▶ Netflow Export : Total
- ▶ Business hours : Standard
- ▶ VoIP / Video measurements : Yes
- ▶ Web caching : Yes

5.3 OBJECTS DISPLAY SELECTION

5.3.1 Overview

Three types of objects can be displayed on the map:

- Categories
- Sites
- Site-to-site links

They are displayed with different colors depending on triggered alarms criticality:

- info (green)
- minor (light green)
- major (orange)
- critical (red)

5.3.2 Category Objects

If a geographical category type has been provisioned for StreamMap (in StreamView, *Management Tools > Categories Management*), then the associated categories can be displayed by selecting **Categories** in the display filter. In case, there are hierarchical categories (continent, countries, region, etc.), it is possible to select the level of categories to be displayed.

Categories are automatically located on the map based on their address defined in StreamView.

5.3.3 Site Objects

Sites can be displayed by selecting **Sites** in the display filter.

Sites are automatically located on the map based on their address defined in StreamView.

If categories have been defined, then an additional “Categories” filter can be used in the upper frame to filter sites display depending on the categories they belong to.

5.3.4 Site-to-site Link Objects

When sites are displayed, site-to-site links and related information are displayed as well.

They are available only when the following information type is selected: All, Network, Application (+ specific application).

They are not available when the following information type is selected: Application (All), VoIP/Video, StreamGroomers.

5.4 PER OBJECT INFORMATION

5.4.1 Overview

The following information type can be displayed on the map:

- All
- Network
- Application
- VoIP/Video
- StreamGroomers

5.4.2 "All" Information

The following information is displayed per object:

	Category/site object	Site-to-site link object
Alarms	Network, Application, VoIP/Video, StreamGroomers	Network, Application
Statistics (Last, long-term)	Network, Application, VoIP/Video	Network

5.4.3 "Network" Information

The following information is displayed per object:

	Category/site object	Site-to-site link object
Alarms	Network	Network
Statistics (Last, long-term)	Network	Network

5.4.4 "Application" Information

When "All" applications are displayed, the following information is available per object:

	Category/site object
Alarms	All applications
Statistics (Last, long-term)	Application (to be selected)

When a specific application is displayed, objects are greyed when the application is not defined. For the other objects, the following information is available per object:

	Category/site object	Site-to-site link object
Alarms	Selected application	For the selected application
Statistics (Last, long-term)	Selected application	For the selected application

5.4.5 "VoIP/Video" Information

When "All" VoIP/video codecs are displayed, only sites with a StreamGroomer and VoIP/video measurements set to Yes are displayed. The following information is available per object:

	Category/site object
Alarms	All VoIP/video codecs
Statistics (Last, long-term)	VoIP/video codec (to be selected)

When a specific VoIP/video codec is displayed, only sites with a StreamGroomer and VoIP/video measurements set to Yes are displayed, and they are greyed when the codec is not defined.The following information is available per object:

	Category/site object
Alarms	Selected VoIP/video codec
Statistics (Last, long-term)	Selected VoIP/video codec

5.4.6 "StreamGroomers" Information

The following information is displayed per object:

	Site object
Object display	Only sites with a StreamGroomer are displayed
Alarms	StreamGroomer
Statistics (Last, long-term)	StreamGroomer