

PSOM 4.0 Logs

There are several kind of logs on PrivateServer:

1. SIP activity logs
2. Registered Accounts
3. Web Authorization accesses
4. Call Detailed Records

Each one is suitable to monitor a different part of the service.

4.0.1 SIP activity logs

The **SIP Sessions** page show the activities each Account did with the server.

SessionLogEntry List

Timestamp	Event	Source	Peername	Account	Details	Useragent	Remoteaddr	Tlscipher
2012-11-06 16:47:40.530	REGISTER	CLIENT	[REDACTED]	[REDACTED]	200 OK	PGSM-11.0.1712-iphone	[REDACTED]:5:35418	AES256-SHA
2012-11-06 16:47:38.470	DISCONNECT	CLIENT	[REDACTED]	[REDACTED]	NETWORK_ERROR	PGSM-10.5.1508-iphone	[REDACTED]:1:19095	AES256-SHA
2012-11-06 16:47:38.610	UNREGISTER	CLIENT	[REDACTED]	[REDACTED]	REQUEST	PGSM-10.5.1508-iphone	[REDACTED]:1:19095	AES256-SHA
2012-11-06 16:47:35.206	REGISTER	CLIENT	[REDACTED]	[REDACTED]	200 OK	PGSM-10.4.2293-blackberry	[REDACTED]:5:1856	AES256-SHA
2012-11-06 16:47:34.710	REGISTER	CLIENT	[REDACTED]	[REDACTED]	200 OK	PGSM-11.0.1712-iphone	[REDACTED]:5:35418	AES256-SHA

figure 1. List of SIP Session Activities

To get this list just click on the **SIP Sessions** entry in the main menu. The activities are listed by date and they give you a detailed overview of the SIP status for each one. These logs are very useful for debugging the networking issues on the client side.



In [figure 1. List of SIP Session Activities](#) you can read that a **NETWORK_ERROR** has caused the DISCONNECT event for one user.

The **Event** column lists the SIP events:

- **CONNECT:** PrivateGSM client opened a connection to PrivateServer. This usually means the client has been activated
- **REGISTER:** The Account has been correctly registered and is now **on line**
- **UNREGISTER:** The Account has been correctly unregistered and is now **off line**
- **DISCONNECT:** PrivateGSM client closed the connection. This usually means the client has been stopped.

Each one has its **Details** column which explains the exact message provided by the PrivateServer.

CONNECT/DISCONNECT event are bound to a remote address, not directly related to a specific VoIP account. A periodic background task analyses the SIP session logs and, when possible, reconcile them binding these events to a specific account.

Reconciliation is very useful while debugging SIP session for a specific user: clicking on username field will show a filtered list of SIP session events.

4.0.2 Registered Accounts

If you want a full list of all the Accounts who are on line, then you click on the **Registered Accounts** entry in the **main menu**.

Registered Accounts

Id	Username	IpAddr	Port	Description	Registration Expires	UserAgent
575	822208948	93.186.30.117	23,665	Selfregistration user (822208948)	2012-05-10 17:33:11 CEST	PGSM-10.3.1626-blackberry
601	055129664	176.81.235.232	60,104	Selfregistration user (055129664)	2012-05-10 17:32:08 CEST	PGSM-10.2.1493-blackberry
919	519178286	94.175.55.145	55,998	Selfregistration user (519178286)	2012-05-10 17:33:07 CEST	
3,169	592023684	62.196.64.113	52,034	Selfregistration user (592023684)	2012-05-10 17:49:20 CEST	PGSM-10.3.5-iphone
3,334	951318993	82.78.218.22	53,142	Selfregistration user (951318993)	2012-05-10 17:44:55 CEST	PGSM-10.5.1508-iphone

figure 2. Registered Account list

The list shows all the user actually on line and thus reachable on your PrivateServer. To read more detail about each user just click on its **Id**.

4.0.3 Web Authorization accesses

You can have a full view of all the access made to the management console.

AuthenticationEvent List

Date Created ▼	Event Type	Principal	IP Address
2012-05-10 17:29:42.000	SUCCESS_INTERACTIVE	admin	93.57.41.37
2012-05-10 17:29:42.000	SUCCESS	admin	93.57.41.37
2012-05-10 17:29:37.000	FAIL_BAD_CREDENTIALS	admin	93.57.41.37

Just click on the **Web Sessions** entry in the **main menu** and you get a list as in figure above. It shows up the detail about the user (**principal**), the **IP address** used to connect, the date of each authentication and the outcome (**Event Type**).

4.0.4 Call Detailed Records



NEW FEATURE

In this version the CDR has been completely rearrange to better show the valuable informations

Despite its name the CDR is a debugging and quality assurance facility. It saves all the calls status, meaning it is very useful to understand is something is going wrong with you Secure Call Service.

To access the CDR you must click on the **Call Detailed Record** in the main menu. You'll get the "Cdr List" page which includes all the calls recorded.

Cdr List

Call Date	Caller Number	Caller	Caller Group	Callee Number	Callee	Callee Group	Total Duration	Call Duration	Disposition	Hangup cause	Call id	Call type
2012-11-06 14:31:13 CET	+39 [REDACTED]			00 [REDACTED]	[REDACTED] - 9360		0	0	FAILED	NO_ANSWER	283851119	CALL
2012-11-06 14:31:08 CET	+39 [REDACTED]			00 [REDACTED]	[REDACTED] - 9360		0	0	FAILED	NO_ANSWER	1200254168	CALL
2012-11-06 13:40:59 CET	+34 [REDACTED]			[REDACTED]			0	0	NO_ANSWER	NO_ROUTE_DESTINATION	814793281	CALL
2012-11-06 13:13:46 CET	+3 [REDACTED]			[REDACTED]			0	0	NO_ANSWER	NO_ROUTE_DESTINATION	709477779	CALL
2012-11-06 13:02:38 CET	+39 [REDACTED]			[REDACTED]			438	424	ANSWERED	NORMAL_CLEARING	875064962	CALL
2012-11-06 11:55:56 CET	+35 [REDACTED]			[REDACTED]			110	101	ANSWERED	NORMAL_CLEARING	2040234946	CALL

Figure 1. Call Detailed Record List

If the table is empty, please place a phone call between the two SIP Accounts. Then come back on this page and check that the call has been correctly registered. The shown fields are:

- **Call Date:** when the call has been placed
- **Caller Number:** The virtual phone number used to place the call
- **Caller:** The caller description, if any
- **Caller Group:** The caller's group description, if any
- **Callee Number:** The virtual phone number called
- **Callee:** The callee description, if any
- **Callee Group:** The callee's group description, if any
- **Total Duration:** how long the call lasted. Time elapsed from the moment the "Call Button" is pressed on the caller's client to the one in which the communication is closed at all
- **Call Duration:** how long the call lasted, just the voice
- **Disposition:** which result the call had
- **Hangup Cause:** how long the call lasted
- **Call id:** a unique number that identifies the call
- **Call type:** nature of the call performed

Relevant fields in CDR

The **Disposition** is very important because it tells you the exit code of each call. Possible codes are:

1. **ANSWERED:** the call was taken by the callee

2. **NO_ANSWER**: nobody picked up the phone to answer (mostly this is a time out code)
3. **BUSY**: the callee refused the call
4. **FAILED**: for some reason the call was not able to be placed

The **Hangup Cause** describes in details what caused the hangup. Possible causes are:

1. **NO_ROUTE_DESTINATION**: The callee is not reachable because of network issues.
2. **NORMAL_CLEARING**: Call closed normally.
3. **USER_BUSY**: The user is busy.
4. **NO_ANSWER**: The callee didn't answer and the call was closed for timeout reason.
5. **CALL_REJECTED**: The callee rejected the call, as by pressing the "hold" button.
6. **BEARERCAPABILITY_NOTAVAIL**: The caller and the callee were using different security models that are not compatible.
7. **NO_USER_RESPONSE**: The same as in "NO_ANSWER", but this happens when the call goes out by Trunk.

The **Call Type** identifies the nature of the call. Used with the Call id fields this value is useful to trace down complex calls like three-way calls, conferences or transferred calls. Possible values are:

1. **CALL**: Usual call between two persons
2. **3-WAY**: Usual call (as above) with an added person during the call
3. **CONFERENCE**: Conference call
4. **TRANSFER**: Usual call that is transferred to a third person

The **Call id** is a number that identifies uniquely the call. It can be used to trace a call if it changes its nature (ie becoming a three-way call) or to group all the participants (ie in a conference room).

4.0.5 Data Retention



NEW FEATURE

The "Data Retention" feature has been introduced in the present version.

The "Data Retention" is the new possibility that EVSS gives you to archive and store away some of the older data for consultation purposes.

Data Retention
Archived Data

figure 3. Menu access to the Data Retention

You can access the functions of "Data Retention" using the menu entries shown in [figure 3. Menu access to the Data Retention](#) under the "**SERVER CONFIGURATION**" voice.

The **first** one is used to **configure** the Retention features, the **latter** for **retrieving** the information stored on the hard disk of PrivateServer.

4.0.5.1 Setup of Data Retention

You can create a retention policy for some important logs provided by the appliance.

Data Retention Policy

Data Type	Enabled	Period Duration	Period/s Online
Web Session	False	YEAR	1
Call Detail Record	False	YEAR	1
SIP Session	True	WEEK	4

figure 4. Data Retention Policy list

In [figure 4. Data Retention Policy list](#) is shown the list of the available logs to be stored. What happens when you start the Data Retention on a log is that the system checks all the entries older than the date configured (let's say older than one year from the present day) and move them out the regular logging system to a compressed archive that could be later downloaded.

Edit Data Retention Policy

Data Type:	Web Session
Enabled:	<input type="checkbox"/>
Period Duration:	YEAR <input type="button" value="↑"/> <input type="button" value="↓"/>
Period/s Online:	<input type="text" value="1"/>


 **Update**

figure 5. Data Retention Policy editor

Each log entry listed in [figure 4. Data Retention Policy list](#) has an editor form as the one shown in [figure 5. Data Retention Policy editor](#). Using the mentioned form you can:

- enable the Data Retention(**Enabled** checkbox)
- select the period to be kept on-line (**Period Duration**)
- choose how many archives you want to keep online (**Period/s Online**)

4.0.5.2 Retrieve the Data Archives

As said in the previous paragraph (4.0.5.1), there are two left menu entries to manage the Data Retention feature (see [figure 3. Menu access to the Data Retention](#)). If you want to access to the stored archives just press the "**Archived Data**" link.

Data Archive List






Name	Timestamp ▼	Size		
sessionLogEntry-2012-10-08-20121104040000.zip	2012-11-04 04:00:37.0	3.326 megabytes		
sessionLogEntry-2012-10-01-20121031040000.zip	2012-10-31 04:18:03.0	30.634 megabytes		
sessionLogEntry-2012-10-01-20121030040000.zip	2012-10-30 04:19:53.0	30.634 megabytes		

figure 6. Data Archive List

The "**Data Archive List**" is shown in the page body (see [figure 6. Data Archive List](#)). Each archive row shows its **Name**, its **Creation Timestamp** and its **Size** (all the columns are pretty self explaining).

The last two columns shows two icons: the first one is for downloading the archive, the second one is for deleting it.

 It's possible to download the archive also by clicking on its name

If you choose to delete the archive, press the last column icon.

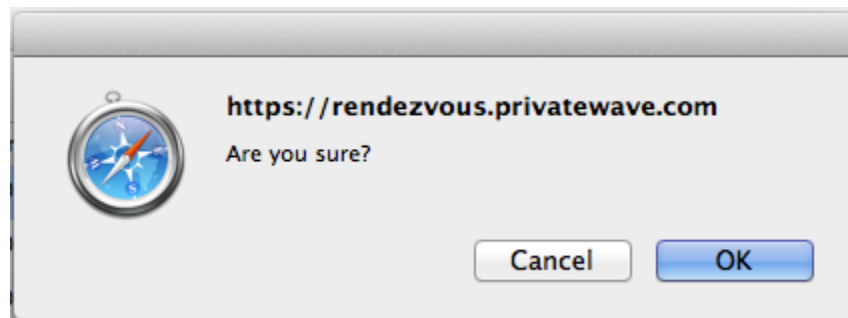


figure 7. The confirmation pop-up window

A confirmation is requested (see [figure 7. The confirmation pop-up window](#)). If you approve the action then the archive is removed from both the list and the hard disk of the appliance.



Point of no return action!

Please be aware that this action is not undoable! Once confirmed the deletion, the archive is lost forever!

[PSOM 3.0 Administrative Roles and Users](#)

[PSOM Appendix A - How to contact us](#)