

Taller sobre Posicionamiento GNSS a Tiempo Real

SIRGAS 2017

22 al 24 de Noviembre de 2017

Mendoza, Argentina



Taller sobre Posicionamiento GNSS a Tiempo Real

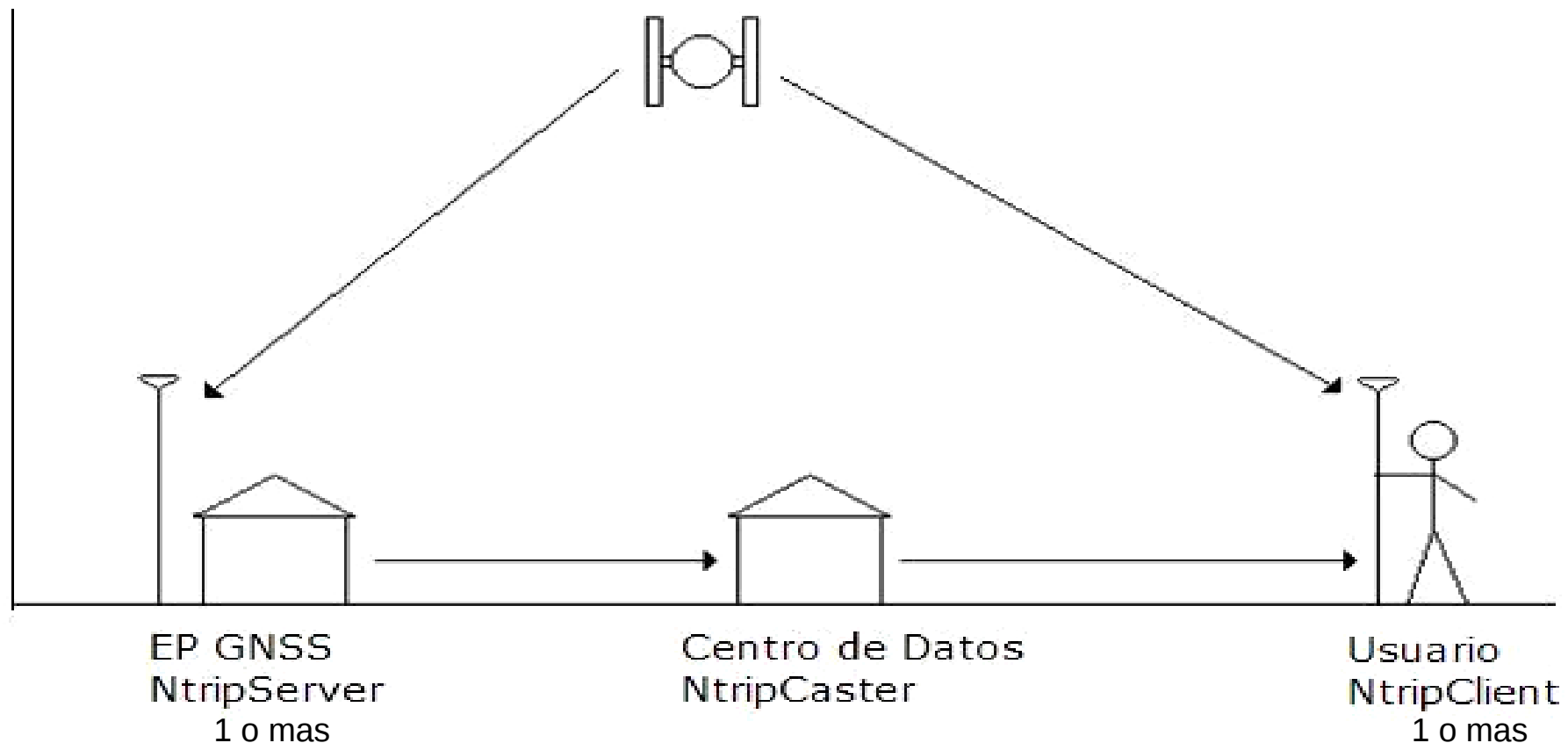
SIRGAS 2017

Sesión Conexión Caster/Streams RT
22 de Noviembre de 2017



NTRIP

- **Transmisión de datos de las Estaciones Permanentes utilizando el protocolo NTRIP**
(Networked Transport of RTCM via Internet Protocol)



NTRIP Caster

Opciones software

BKG Standard NtripCaster

BKG Professional NtripCaster

Fabricantes equipos

Snip Caster

* Standard NtripCaster *

Introduction

~~~~~

The Standard NtripCaster is a software written in C Programming Language for disseminating GNSS real-time data streams via Internet. For details of Ntrip (Networked Transport of RTCM via Internet Protocol) see its documentation available from [http://igs.ifag.de/index\\_ntrip.htm](http://igs.ifag.de/index_ntrip.htm). You should understand the Ntrip data dissemination technique when considering an installation of the software.

The Standard NtripCaster software has been developed within the framework of the EUREF-IP project, see [http://www.epncb.oma.be/euref\\_IP](http://www.epncb.oma.be/euref_IP). It is derived from the ICECAST Internet Radio as written for Linux platforms under GNU General Public License (GPL). Please note that whenever you make software available that contains or is based on your copy of the Standard NtripCaster, you must also make your source code available - at least on request.

The Standard NtripCaster software has been tested so far on various Suse, Debian, Gentoo, and Redhat (up to Enterprise 5) Linux distributions. Note that the software may not run today on some other Linux distributions of recent date. Version 0.1.5 of the Standard NtripCaster supports a maximum of 50 NtripServers and 100 NtripClients simultaneously, see <http://igs.ifag.de/pdf/NtripImplementation.pdf> for technical details.

Ntrip Version 1.0 is an RTCM standard for streaming GNSS data over the Internet. Offering the Standard NtripCaster Version 0.1.5 is part of BKG's policy to help distributing this standard. RTCM may decide to issue further Ntrip versions as the need arises. Thus, it might be necessary to modify the Standard NtripCaster Version 0.1.5 in the future. Ntrip is already part of some GNSS equipment available today. You may like to ask your vendor about the Ntrip capability of your GNSS hardware or software.

Although Standard NtripCaster Version 0.1.5 should satisfy most needs, we continue to work on a high-performance version with enhanced functionality. This Professional NtripCaster Version is meant for professional/commercial service providers.

GNSS Data Center x bkg NtripCaster\_Datasheet.pdf x Persona 1

https://igs.bkg.bund.de/root\_ftp/NTRIP/documentation/NtripCaster\_Datasheet.pdf

 Federal Agency for  
Cartography and Geodesy

## BKG Professional NtripCaster Datasheet

### Application

- Dissimination of GNSS real-time data streams via TCP/IP connections, using the RTCM1 standard Ntrip2
- Applications in real time GNSS data centers or in local environments

### Specifications

- Written in C programming language under GNU Public License (GPL)
- Running on LINUX (tested for various distributions, such as SuSE, Debian, Gentoo, Redhat)
- Supporting Ntrip versions 1 and 2
- Easy installation and configuration based on a low number of configuration files
- Tested for more than 100 data streams and more than 2000 simultaneous users
- Optional relay function
- More than 100 operational installations worldwide, such as IGS RTS3
- Latest version (October 2016): 2.0.25
- Distribution of software copy including source code

Order 



Aplicaciones Lugares Sistema ? jue 18 de oct, 09:22 noguera

ntripcaster

Sistema de archivos de 42 GB

## Ubuntu - iLinux para seres humanos!

Archivo Editar Ir a Marcadores Ayuda

← → | Buscar:

**Ubuntu - iLinux para seres humanos!**

Está usando ubuntu 10.04 LTS - la versión *Lucid Lynx* - publicada en abril de 2010 y soportada hasta abril de 2013.

Esta sección es una introducción a Ubuntu. En ella se explica la filosofía y las raíces de Ubuntu, se da información sobre como contribuir con Ubuntu y muestra cómo obtener ayuda con Ubuntu.

# ubuntu

Ubuntu es un completo sistema operativo libre creado alrededor del núcleo *Linux*. La comunidad de Ubuntu gira alrededor de las ideas expresadas en la [Filosofía Ubuntu](#): que el software debe estar disponible de forma gratuita, que las herramientas de software deben poder ser utilizadas por la gente en su idioma local, y que la gente debe tener la libertad de personalizar y alterar su software de la manera que necesiten. Por esos motivos:

[Acerca de este documento](#)  
[Ubuntu - iLinux para seres humanos!](#)  
[Acerca del nom](#)  
[Software libre](#)  
[La diferencia](#)  
[El escritorio](#)  
[Números de ve y publicación](#)  
[Asistencia y soporte](#)  
[¿Como puedo actualizar a la](#)

ntripcaster - Navegador de archivos

Archivo Editar Ver Ir Marcadores Ayuda

← Atrás → Adelante ↑ × | 50% | Vista de lista

Lugares ▾ ×

- noguera
- Escritorio
- Sistema de a...
- Red
- Sistema ...
- Disquete
- Papelera

| Nombre             | Tamaño      | Tipo                        | Fecha de modificación        |
|--------------------|-------------|-----------------------------|------------------------------|
| bin                | 1 elemento  | Carpeta                     | lun 28 feb 2011 13:00:36 ART |
| conf               | 4 elementos | Carpeta                     | sáb 13 oct 2012 11:16:43 ART |
| logs               | 1 elemento  | Carpeta                     | lun 28 feb 2011 13:19:40 ART |
| ntripcaster.launch | 56 bytes    | Documento de texto sencillo | mar 19 abr 2011 12:26:22 ART |
| ntripcaster.log    | 2,6 MiB     | Registro de aplicación      | mar 19 abr 2011 12:26:32 ART |

ntripcaster - Navegad... ? Ubuntu - iLinux para s...

Aplicaciones Lugares Sistema ? jue 18 de oct, 09:29 noguera

**bin - Navegador de archivos**

Archivo Editar Ver Ir Marcadores Ayuda

Atrás Adelante 50% Vista de lista

Lugares **usr** local ntripcaster **bin**

| Nombre      | Tamaño    | Tipo       | Fecha de modificación        |
|-------------|-----------|------------|------------------------------|
| ntripcaster | 244,9 KiB | Ejecutable | mar 19 abr 2011 11:50:27 ART |

**conf - Navegador de archivos**

Archivo Editar Ver Ir Marcadores Ayuda

Atrás Adelante 50% Vista de lista

Lugares **usr** local ntripcaster **conf**

| Nombre                | Tamaño    | Tipo                        | Fecha de modificación        |
|-----------------------|-----------|-----------------------------|------------------------------|
| ntripcaster.conf      | 2,1 KiB   | Documento de texto sencillo | sáb 13 oct 2012 11:16:43 ART |
| ntripcaster.conf.dist | 1,8 KiB   | Documento de texto sencillo | mar 19 abr 2011 11:50:27 ART |
| sourcetable.dat       | 1,8 KiB   | Documento de texto sencillo | sáb 13 oct 2012 11:14:50 ART |
| sourcetable.dat.dist  | 519 bytes | Documento de texto sencillo | mar 19 abr 2011 11:50:27 ART |

**logs - Navegador de archivos**

Archivo Editar Ver Ir Marcadores Ayuda

Atrás Adelante 50% Vista de lista

Lugares **usr** local ntripcaster **logs**

| Nombre          | Tamaño   | Tipo                   | Fecha de modificación        |
|-----------------|----------|------------------------|------------------------------|
| ntripcaster.log | 92,5 MiB | Registro de aplicación | jue 18 oct 2012 09:29:28 ART |

bin - Navegador de arc... conf - Navegador de ar... logs - Navegador de ar...

Aplicaciones Lugares Sistema ? jue 18 de oct, 09:32 noguera

ntripcaster.conf [Sólo lectura] (/usr/local/ntripcaster/conf) - gedit

Archivo Editar Ver Buscar Herramientas Documentos Ayuda

Abrir Guardar Deshacer

ntripcaster.conf

```
#####
# NtripCaster configuration file #
#####

##### Server Location and Responsible Person #####
# Server meta info with no fuctionality.

location UNR
rp_email noguera@fceia.unr.edu.ar
server_url http://huerta-pb.fceia.unr.edu.ar

##### Server Limits #####
# Maximum number of simultaneous connections.

max_clients 100
max_clients_per_source 100
max_sources 40

##### Server passwords #####
# The "encoder_password" is used from the sources to log in.

encoder_password sesam01

##### Server IP/port configuration #####
# The server_name specifies the hostname of the server and must not be set to
# an IP-adress. It is very important that server_name resolves to the IP-adress
# the server is running at.
# For every port, the server should listen to, a new port line can be added.

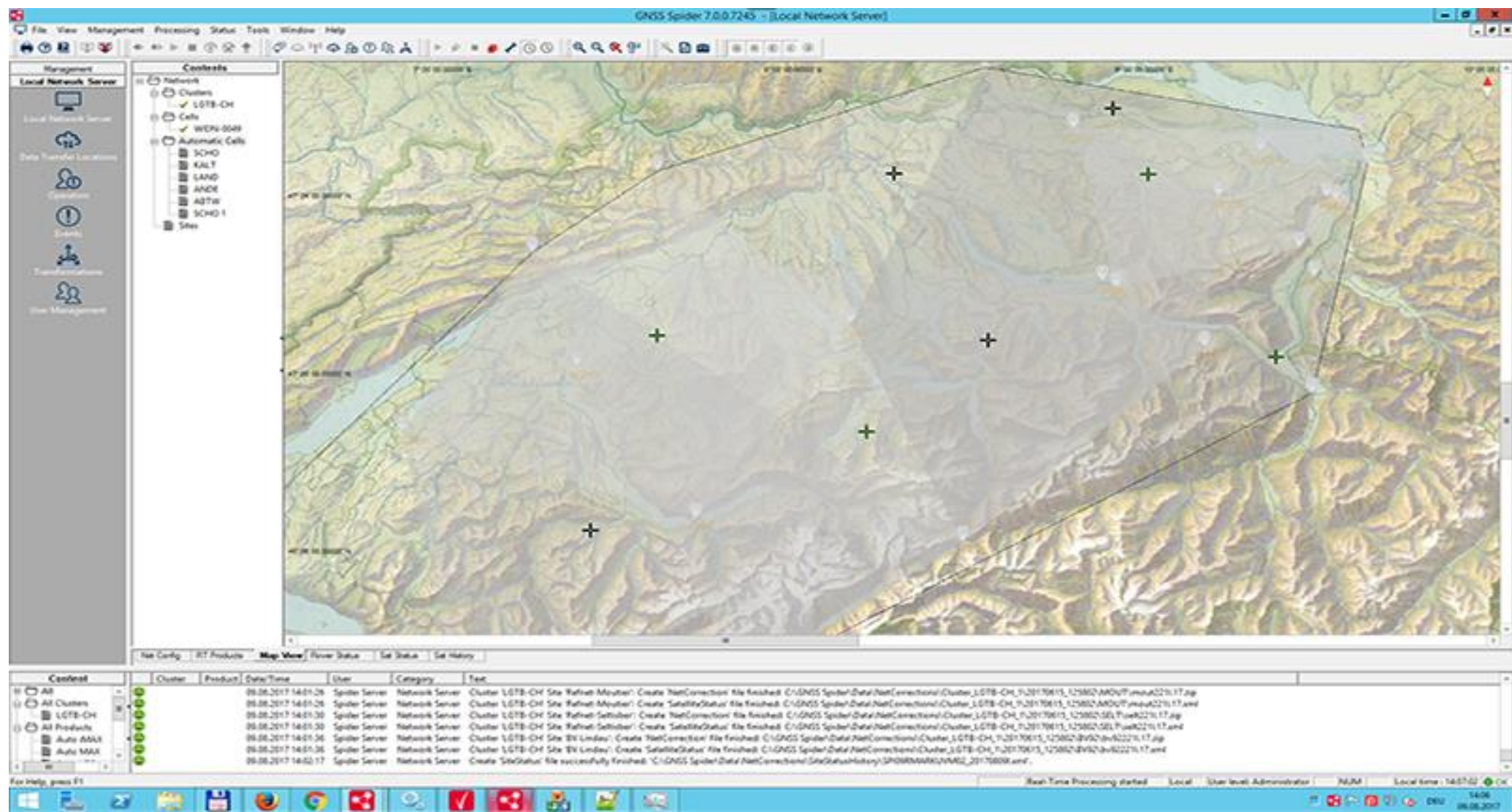
server_name huerta-pb.fceia.unr.edu.ar
#port 80
port 2101

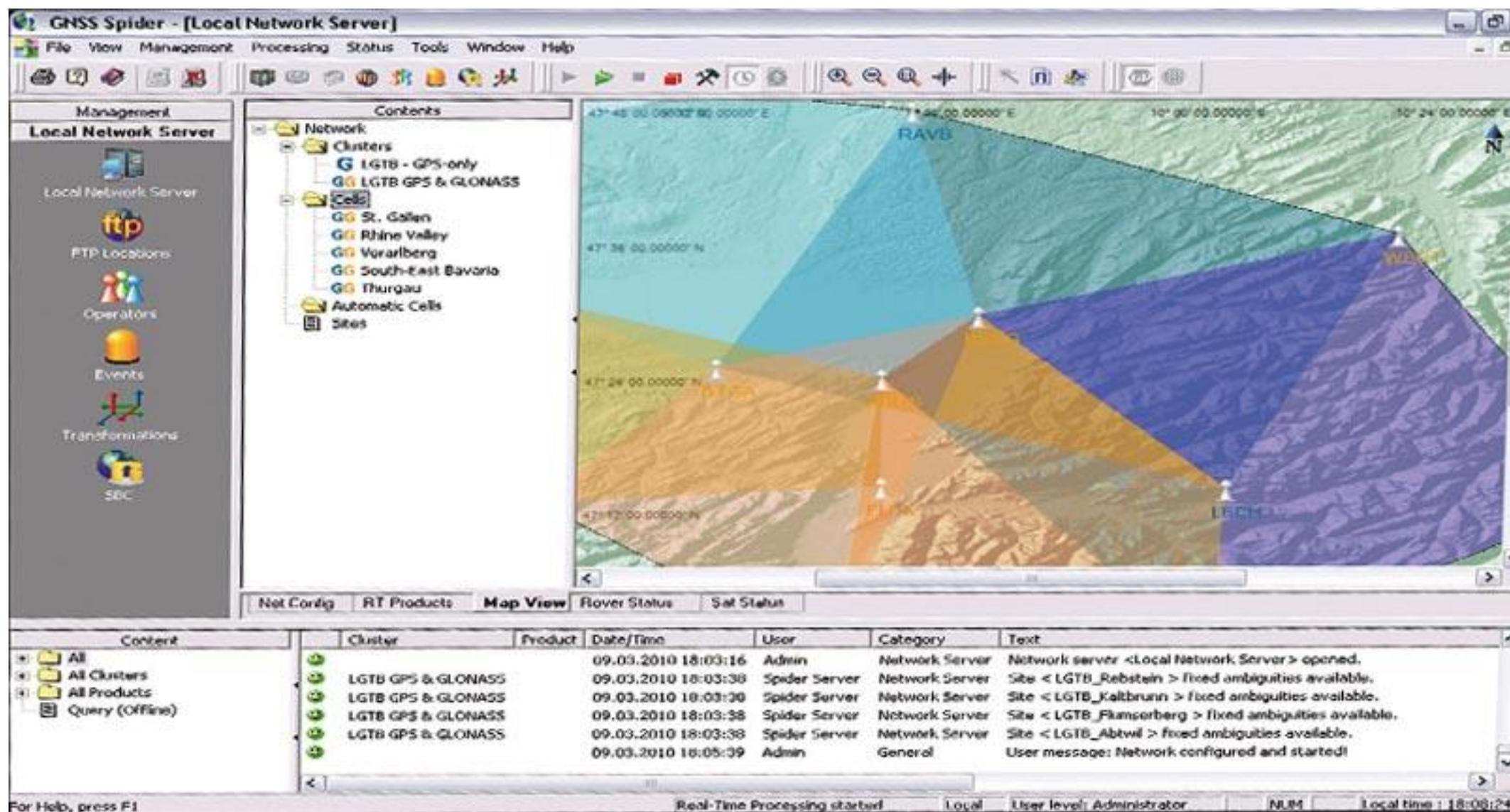
##### Main Server Logfile #####
```

Texto plano Ancho de la tabulación: 8 Ln 38, Col 1 INS

[bin - Navegador de ar... conf - Navegador de a... logs - Navegador de ar... ntripcaster.conf [Sólo l...

## Ejemplo software de fabricante equipos: Leica Spider







WHAT IS SNIP?

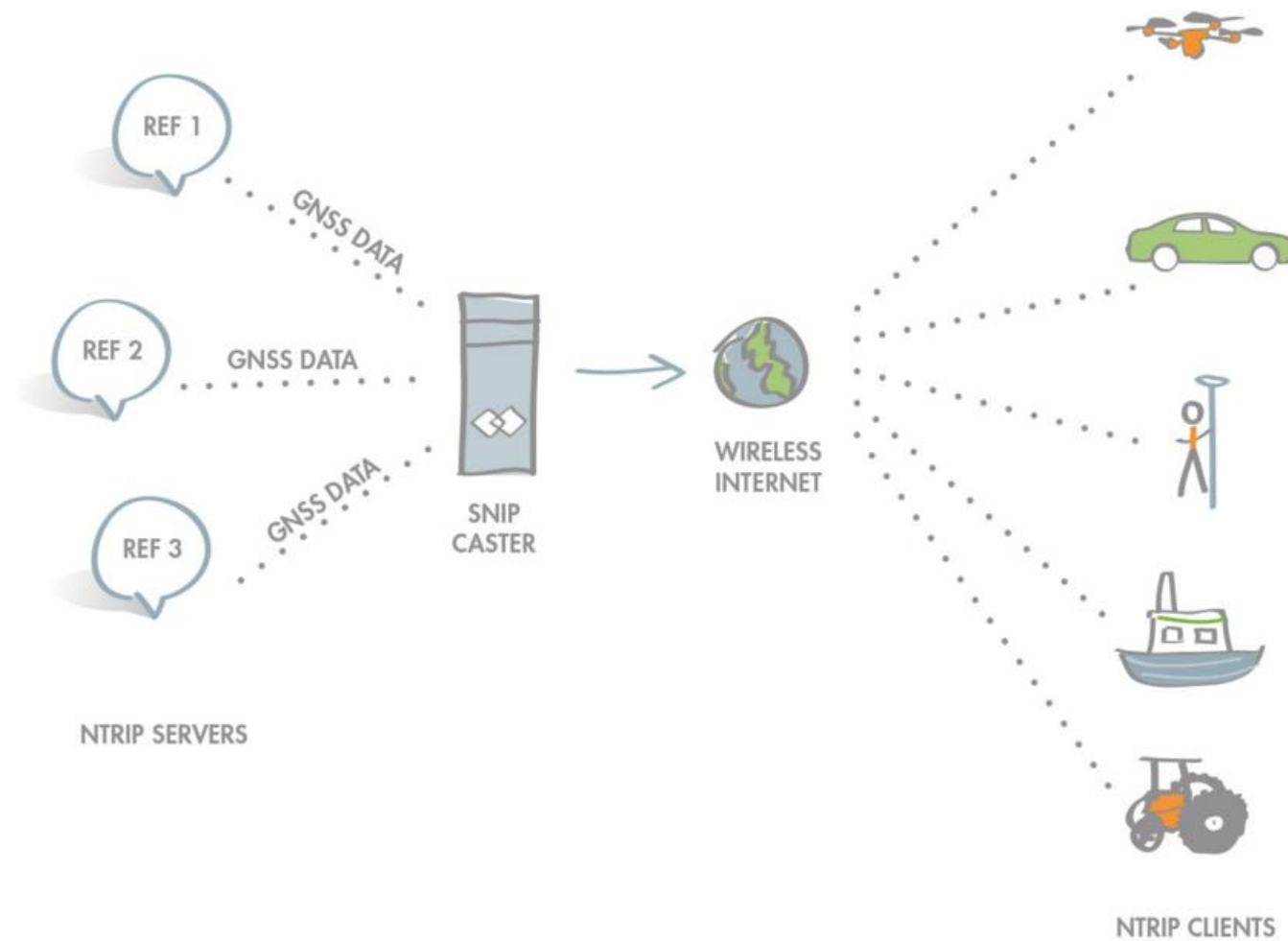
DOWNLOAD SNIP

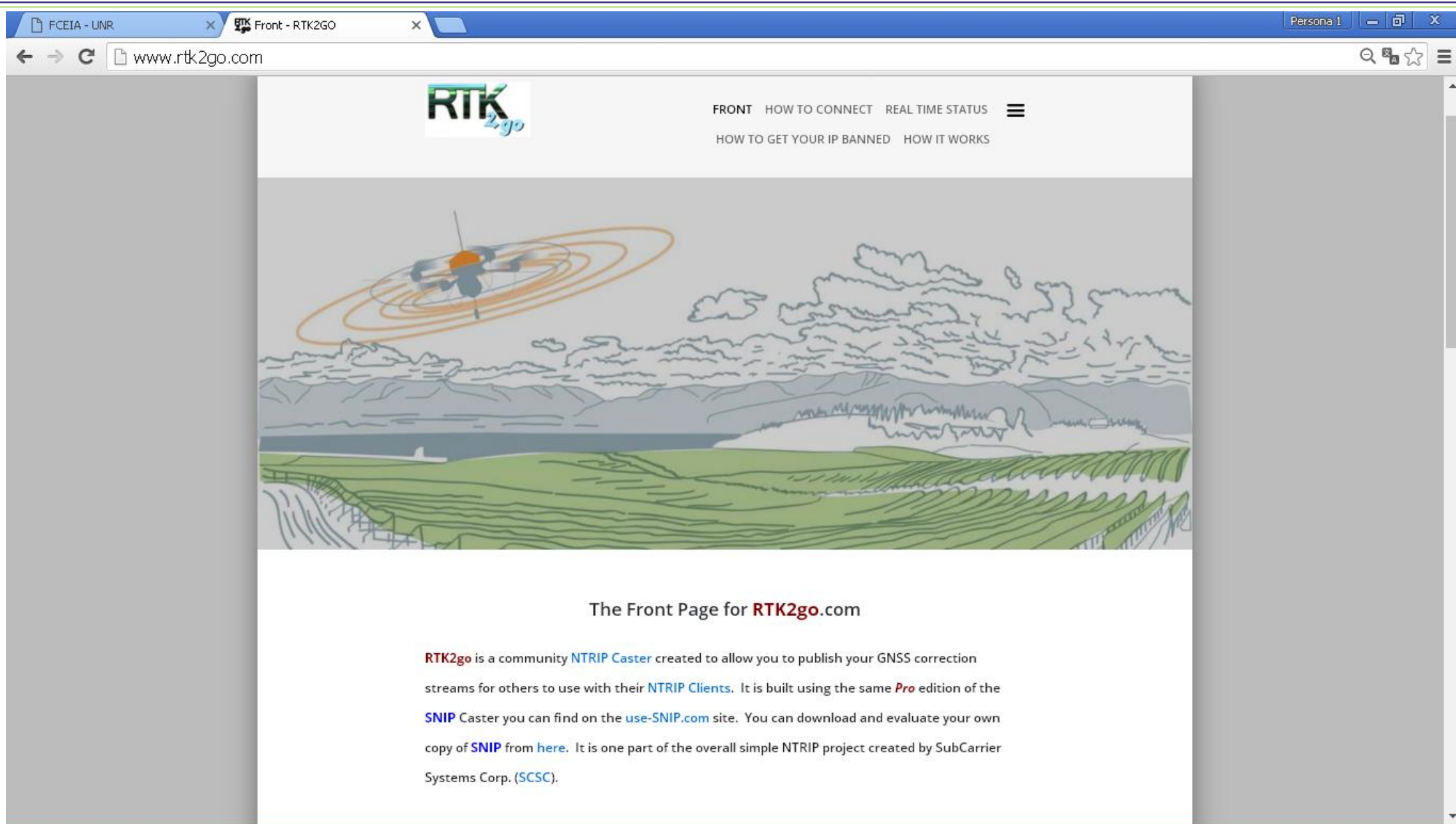
PRICING

SUPPORT

ABOUT SNIP

LOGIN





# *Instalación y configuración NTRIP Caster*

Opciones software

BKG Standard NtripCaster

-> **BKG Professional NtripCaster**

Fabricantes equipos

Snip Caster

## Installation

~~~~~

To install the NtripCaster do the following:

- unzip the software in a separate directory
- run `"./configure"` (if you do not want the server to be installed in `"/usr/local/ntripcaster"` specify the desired path with `"./configure --prefix=<path>"`)
- run `"make"`
- run `"make install"`

After that, the server files will be in `"/usr/local/ntripcaster"`, binaries will be in `"/usr/local/ntripcaster/bin"`, configuration files in `"/usr/local/ntripcaster/conf"`, logs in `"/usr/local/ntripcaster/logs"` and templates in `"/usr/local/ntripcaster/templates"` (or in your desired path correspondingly).

Go to the configuration directory and rename `"sourcetable.dat.dist"` and `"ntripcaster.conf.dist"` to `"sourcetable.dat"` and `"ntripcaster.conf"`. Edit both files according to your needs. For details about `"sourcetable.dat"` see file `"NtripSourcetable.doc"`. In the configuration file `"ntripcaster.conf"` you have to specify the name of the machine the server is running on (no IP adress!!) and you can adapt other settings, like the listening ports, the server limits and the access control.

Now the server is ready to be run with `"./ntripcaster"` in the binary directory. The NtripCaster has been tested on various RedHat and Suse Linux distributions.

Whatever the content of your `"sourcetable.dat"` finally might be, it is recommended to include the following line in that configuration file:
`CAS;rtcm-ntrip.org;2101;NtripInfoCaster;BKG;0;DEU;50.12;8.69;http://www.rtcn-ntrip.org/home`

Aplicaciones Lugares Sistema   jue 18 de oct, 09:29 noguera 

bin - Navegador de archivos

Archivo Editar Ver Ir Marcadores Ayuda

Atrás Adelante     50%  Vista de lista 

Lugares     **bin**

Nombre	Tamaño	Tipo	Fecha de modificación
 ntripcaster	244,9 KiB	Ejecutable	mar 19 abr 2011 11:50:27 ART

conf - Navegador de archivos

Archivo Editar Ver Ir Marcadores Ayuda

Atrás Adelante     50%  Vista de lista 

Lugares     **conf**

Nombre	Tamaño	Tipo	Fecha de modificación
 ntripcaster.conf	2,1 KiB	Documento de texto sencillo	sáb 13 oct 2012 11:16:43 ART
 ntripcaster.conf.dist	1,8 KiB	Documento de texto sencillo	mar 19 abr 2011 11:50:27 ART
 sourcetable.dat	1,8 KiB	Documento de texto sencillo	sáb 13 oct 2012 11:14:50 ART
 sourcetable.dat.dist	519 bytes	Documento de texto sencillo	mar 19 abr 2011 11:50:27 ART

logs - Navegador de archivos

Archivo Editar Ver Ir Marcadores Ayuda

Atrás Adelante     50%  Vista de lista 

Lugares     **logs**

Nombre	Tamaño	Tipo	Fecha de modificación
 ntripcaster.log	92,5 MiB	Registro de aplicación	jue 18 oct 2012 09:29:28 ART

bin - Navegador de arc... conf - Navegador de a... logs - Navegador de ar...

Aplicaciones Lugares Sistema  ?

jue 18 de oct, 09:32 noguera

ntripcaster.conf [Sólo lectura] (/usr/local/ntripcaster/conf) - gedit

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Abrir Guardar Deshacer

ntripcaster.conf

```
#####  
# NtripCaster configuration file #  
#####  
  
##### Server Location and Responsible Person #####  
# Server meta info with no fuctionality.  
  
location UNR  
rp_email noguera@fceia.unr.edu.ar  
server_url http://huerta-pb.fceia.unr.edu.ar  
  
##### Server Limits #####  
# Maximum number of simultaneous connections.  
  
max_clients 100  
max_clients_per_source 100  
max_sources 40  
  
##### Server passwords #####  
# The "encoder_password" is used from the sources to log in.  
  
encoder_password sesam01  
  
##### Server IP/port configuration #####  
# The server_name specifies the hostname of the server and must not be set to  
# an IP-adress. It is very important that server_name resolves to the IP-adress  
# the server is running at.  
# For every port, the server should listen to, a new port line can be added.  
  
server_name huerta-pb.fceia.unr.edu.ar  
#port 80  
port 2101  
  
##### Main Server Logfile #####
```

Texto plano ▾ Ancho de la tabulación: 8 ▾ Ln 38, Col 1 INS

[bin - Navegador de ar... conf - Navegador de a... logs - Navegador de ar... ntripcaster.conf [Sólo l...

Aplicaciones Lugares Sistema  ? jue 18 de oct, 09:32 noguera

ntripcaster.conf [Sólo lectura] (/usr/local/ntripcaster/conf) - gedit

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Abrir Guardar Deshacer

ntripcaster.conf

```
server_name ntripcaster.ub.edu.ar
#port 80
port 2101

##### Main Server Logfile #####
# logfile contains information about connections, warnings, errors etc.

logdir /usr/local/ntripcaster/logs
logfile ntripcaster.log

##### Access Control #####
# Here you specify which users have access to which mountpoints,
# one line per mount.
#
# Syntax: /<MOUNTPPOINT>:<USER1>:<PASSWORD1>,<USER2>:<PASSWORD2>,...,<USERn>:<PASSWORDn>
#
# /<MOUNTPPOINT>: name of the mountpoint. Must start with a slash.
# <USERi>: name of the user that has access to <MOUNTPPOINT>.
# <PASSWORDi>: password of <USERi>.
#
# example:
#/mount0:user0:pass0,user1:pass1,user2:pass2
/UNR00:user0:pass0,user1:pass1
/UNR03:user0:pass0,user1:pass1
/UCOR2:user0:pass0,user1:pass1
/UCOR3:user0:pass0,user1:pass1
/EPGZ:user0:pass0,user1:pass1
/EPGZ3:user0:pass0,user1:pass1
/MZAE:user0:pass0,user1:pass1
/CLK9B:user0:pass0,user1:pass1
/RTCM3EPH:user0:pass0,user1:pass1
/CLK10:user0:pass0,user1:pass1
```

Texto plano Ancho de la tabulación: 8 Ln 38, Col 1 INS

[bin - Navegador de ar... conf - Navegador de a... logs - Navegador de ar... ntripcaster.conf [Sólo l...

Aplicaciones Lugares Sistema  ? jue 18 de oct, 09:33 noguera

sourcetable.dat [Sólo lectura] (/usr/local/ntripcaster/conf) - gedit

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  Abrir  Guardar   Deshacer      

sourcetable.dat

```
CAS;www.euref-ip.net;2101;EUREF-IP;BKG;0;DEU;50.12;8.69;http://www.euref-ip.net/home
CAS;rtcm-ntrip.org;2101;NtripInfoCaster;BKG;0;DEU;50.12;8.69;http://www.rtcn-ntrip.org/home
STR;UNR00;Rosario;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS;Misc;ARG;-32.96;-60.63;0;0;ASHTech Z-
XII3;none;B;N;5700;Universidad Nacional de Rosario
STR;UCOR2;Cordoba;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS;Misc;ARG;-31.43;-64.19;0;0;SOKKIA
GSR2700RSX;none;B;N;5700;Universidad Nacional de Cordoba
STR;UCOR3;Cordoba;RTCM 3.0;1004(1),1006(60),1008(60),1012(1);2;GPS+GLO;Misc;ARG;-31.43;-64.19;0;0;SOKKIA
GSR2700RSX;none;B;N;5700;Universidad Nacional de Cordoba
STR;AUXI1;Rosario;RAW;1(1),3(60),18(1),19(1),22(60);2;GPS;Misc;ARG;-32.96;-60.63;0;0;ASHTech Z-XII3;none;B;N;5700;Universidad
Nacional de Rosario
STR;AUXI2;Rosario;RAW;1(1),3(60),18(1),19(1),22(60);2;GPS;Misc;ARG;-32.96;-60.63;0;0;ASHTech Z-XII3;none;B;N;5700;Universidad
Nacional de Rosario
STR;UNR03;Rosario;RTCM 3.0;1004(1),1006(60),1008(60),1012(1);2;GPS;Misc;ARG;-32.96;-60.63;0;0;ASHTech Z-
XII3;none;B;N;5700;Universidad Nacional de Rosario
STR;EPGZ;Galvez;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS;Misc;ARG;0.00;0.00;0;0;Trimble;none;B;N;5700;Municipalidad de
Galvez
STR;EPGZ3;Galvez;RTCM 3.0;1004(1),1006(60),1008(60),1012(1);2;GPS;Misc;ARG;0.00;0.00;0;0;Trimble;none;B;N;5700;Municipalidad
de Galvez
STR;MZA;Mendoza;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS;Misc;ARG;0.00;0.00;0;0;Trimble;none;B;N;5700;San Rafael
STR;CLK9B;BRDC_APC_ITRF;RTCM 3.0;1059(5),1060(5),1065(5),1066(5);2;GPS+GLO;Misc;FRA;43.56;1.48;0;0;PPP-
WIZARD;none;B;N;5700;CNES
STR;RTCM3EPH;Assisted-GNSS;RTCM 3.0;1019(5),1020(5);2;GPS+GLO;Misc;DEU;50.09;8.66;0;0;BNS;none;B;N;5700;BKG
STR;CLK10;BRDC_APC_ITRF;RTCM 3.0;1057(60),1059(5),1060(5);2;GPS;Misc;DEU;50.09;8.66;0;0;BNS;none;B;N;5700;BKG
```

Texto plano ▾ Ancho de la tabulación: 8 ▾ Ln 14, Col 110 INS

conf - Navegador de a... logs - Navegador de ar... sourcetable.dat [Sólo l...


 Buscar

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wiki: [STR](#)

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Sourcetable: CAS NET STR

Structure of a stream record in sourcetable.

Data Field #	Element	Description	Content
1	type	Indicator of a stream description	Content: STR
2	mountpoint	Datastream mountpoint	Max. 100 characters A-Z, a-z, 0-9, -, _, .
3	identifier	Source identifier (most time nearest city)	Text
4	format	Data format (see data formats table below)	Text
5	format-details	Specifics of data format (see data formats table below)	Text
6	carrier	Phase information (see carrier table below)	Number
7	nav-system	Navigation System (see navigation systems table below)	Text
8	network	network name (see NET description)	Text
9	country	ISO 3166 country code (see Wikipedia)	3 characters
10	latitude	Position, Latitude in degree	decimal number, two digits after dot
11	longitude	Position, Longitude in degree	decimal number, two digits after dot
12	nmea	Caster requires NMEA input (1) or not (0)	Content: 1 or 0
13	solution	Generated by single base (0) or network (1)	Content: 1 or 0
14	generator	Generating soft- or hardware	Text
15	compression	Compression algorithm	Text
16	authentication	access protection for data streams None (N), Basic (B) or Digest (D)	Content: B , D , N or a comma separated list of these
17	fee	User fee for data access: yes (Y) or no (N)	Content: Y or N
18	bitrate	Datarate in bits per second	Number
19	misc	Miscellaneous information	Text

Data Formats

The *Format* field describes the generic type, the *Format Details* field specifies individual data sets (separated by comma) and also data rate (in round brackets).

Format	Format Details	Comment
BINEX	BINEX	⇒ BINEX data format
CMR	CMR	⇒ CMR data format
CMR	CMR+	CMR+ data format (splitted meta blocks ⁽¹⁾ , GLONASS support by ⇒ Leica or proprietary by Trimble)
CMR	CMRx	proprietary Trimble CMRx data format
CMR	sCMRx	proprietary Trimble sCMRx data format
NMEA	GPGLGA(1),GPGLSV(1),...	NMEA 0183 data format
RAW	BINR	NVS/NAVIS Raw data format
RAW	JPS	⇒ Javad proprietary format
RAW	LB2	Leica realtime streaming format
RAW	Leica4G	proprietary Leica4G RTK data format
RAW	MBEN	proprietary Ashtech data format
RAW	RT17	Trimble realtime streaming format
RAW	RT27	New Trimble realtime streaming format (other messages as RT17, but same format)
RAW	SBF	Septentrio proprietary format
RTCA	*MSG(1)	RTCA frame from SBAS encoded in ⇒ SISNet *MSG ASCII format
RTCM 2.1	1(3),9(30),...	RTCM2 data streaming with data specification (messages Fixed : 1-3,5-7,9,16, Tentative : 8,13,17-21,59)
RTCM 2.2	18(1),19(1),...	RTCM2 data streaming with data specification (messages Fixed : 1-3,5-7,9,16,18,19,59, Tentative : 4,8,13-15,17,20-22,31-37)
RTCM 2.3	18(1),19(1),...	RTCM2 data streaming with data specification (messages Fixed : 1-3,5-7,9,14-21,27,59, Tentative : 4,8,13,22-24,31-37)
RTCM 3.0	1004(1),1008(10),...	RTCM3 data streaming with data specification (messages 1001-1013)
RTCM 3.1	1004(1),1008(10),...	RTCM3 data streaming with data specification (messages 1001-1039, 1057-1068, 4001-4095)
RTCM 3.2	1004(1),1008(10),...	RTCM3 data streaming with data specification (messages 1001-1039, 1044-1045, 1057-1068, 1071-1230, 4001-4095)
RTCM 3.3	1004(1),1008(10),...	RTCM3 data streaming with data specification (messages 1-100, 1001-1039, 1042, 1044-1046, 1057-1068, 1071-1230, 4001-4095)

NOTE: Incomplete, needs to be extended!

1) See *Improvements in the Compact Measurement Record Format* by Dr. Nicholas C. Talbot

Carrier

This data field is only useful for data streams containing GNSS measurements or corrections.

Values need update for newer GNSS systems.

Carrier	Comment
---------	---------

```
#####
# NtripCaster configuration file #
#####
# If not stated otherwise, you can change these settings while the server is
# running through the admin console or by editing this file and using the
# <rehash> command.

##### Server meta info with no functionality #####
# Here you state general information about the server and its operator

location UNR
name UNR-SIRGAS-Caster
url http://huerta-pb.fceia.unr.edu.ar
rp_email noguera@fceia.unr.edu.ar
operator GGSR
operator_url www.fceia.unr.edu.ar/gps

##### Server Limits #####
# Maximum number of simultaneous connections and maximum bandwidth in KB/s
# (throttle) (!!! no exact measurement !!!).

max_clients 1000
max_clients_per_source 1000
max_sources 50
max_admins 2
throttle 2000.0

##### Server passwords #####
# The "encoder_password" is used by Ntrip-1.0-sources to log in.
# The "admin_password" and "oper_password" is used to get access to the server
# (via telnet), not for mountpoints.

encoder_password sesam01
admin_password adminpass
oper_password operpass

##### Server IP/port configuration #####
# These settings cannot be changed after once having started the server.
# If a hostname is specified, NtripCaster will listen on only this IP,
# otherwise on all available interfaces, i.e. INADDR_ANY.
# The server_name specifies the name of the server and must not be set to
# an IP-address. It is very important that server_name resolves to the IP-address
# the server is running on.
# For every port, the server should listen to, a new port line can be added.

#hostname IP
server_name huerta-pb.fceia.unr.edu.ar
#port 80
port 2101
```

```
##### Relays #####
# To connect to other Ntripcaster's source streams at startup time. No on demand
# functionality.
```

```
relay pull -i UNRO:GPS09 -m /SIRGAS2000 products.igs-ip.net:2101/SIRGAS200002
relay pull -i UNRO:GPS09 -m /SIRGAS95 products.igs-ip.net:2101/SIRGAS9502
relay pull -i UNRO:GPS09 -m /RTCM3EPH products.igs-ip.net:2101/RTCM3EPH
relay pull -i UNRO:GPS09 -m /IGS03 products.igs-ip.net:2101/IGS03
relay pull -i UNRO:GPS09 -m /UNSA0 products.igs-ip.net:2101/UNSA0
relay pull -i sirgas:sirgasrt2015 -m /AUTF ntrip.ign.gob.ar:2101/AUTF
relay pull -i sirgas:sirgasrt2015 -m /CSLO ntrip.ign.gob.ar:2101/CSLO
relay pull -i sirgas:sirgasrt2015 -m /MZAU-V3.0 ntrip.ign.gob.ar:2101/MZAU-V3.0
relay pull -m /UNRO3 192.168.192.31:5020
relay pull -m /UD01_DGPS 200.69.103.24:5020
relay pull -m /UD01_RTK 200.69.103.24:8002
```

```
##### Sourcetable #####
# The name of the sourcetable file
```

```
sourcetablefile sourcetable.dat
```

```
##### Main Server Logfiles #####
# These settings can be changed by using the <rehash> command.
# The logfile contains information about connections, warnings, errors etc.
# The accessfile contains information about all connections of clients.
# The usagefile contains information about bandwidth and usage.
# logfiledebuglevel is the debugging level for all output to the main logfile.
```

```
logfilename ntripcaster
usagefilename usage
#accessfilename access
logdir /usr/local/ntripcaster/logs
logfiledebuglevel 0
watchfilename /usr/local/ntripcaster/var/watchdog.check
pidfilename /usr/local/ntripcaster/var/caster.pid
```

```
##### Templates #####
# The place, where the HTML-template-files reside the server uses for output.
# An absolute path should be used.
```

```
templatedir /usr/local/ntripcaster/templates
```

```
# User authentication file.
# Here you list all the users with their passwords, one line per user.
#
# Syntax: <USER>:<PASSWORD>
#
# <USER>: name of the user.
# <PASSWORD>: password of <USER>.
1001:1963
Gus:0345
ntrip:ntrip
1120:9128
1121:6556
1122:5496
1123:6973
1124:2752
1125:7826
1126:9571
1127:6763
1128:3340
1129:9512
1130:6963
1131:7596
1132:9357
1133:4977
1134:8148
1135:7023
1136:2444
1137:4697
1138:3196
1139:5136
1140:7972
1141:8656
1142:2502
1143:2573
1144:4139
1145:6337
1146:2775
1147:9434
```

SOURCETABLE 200 OK
Server: NTRIP Caster 2.0.15/2.0
Date: Sat, 18 Nov 2017 11:19:51 GMT
Connection: close
Content-Type: text/plain
Content-Length: 2213

CAS;www.euref-ip.net;2101;EUREF-IP;BKG;0;DEU;50.12;8.69;http://www.euref-ip.net/home
CAS;rtcm-ntrip.org;2101;NtripInfoCaster;BKG;0;DEU;50.12;8.69;http://www.rtcn-ntrip.org/home
STR;UNROO;Rosario;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;ARG;-32.96;-60.63;0;0;Trimble NetR9;none;B;N;5700;Universidad Nacional de Rosario
STR;UCOR3;Cordoba;RTCM 3.0;1004(1),1006(60),1008(60),1012(1);2;GPS+GLO;Misc;ARG;-31.43;-64.19;0;0;SOKKIA GSR2700RSX;none;B;N;5700;Universidad Nacional de Cordoba
STR;UNRO3;Rosario;RTCM 3.0;1004(1),1006(60),1008(60),1012(1);2;GPS+GLO;Misc;ARG;-32.96;-60.63;0;0;Trimble NetR9;none;B;N;5700;Universidad Nacional de Rosario
STR;RTCM3EPH;Assisted-GNSS;RTCM 3.0;1019(5),1020(5);2;GPS+GLO;Misc;DEU;50.09;8.66;0;0;BNS;none;B;N;5700;BKG
STR;SIRGAS2000;BRDC_APC_SIRGAS2000;RTCM 3.0;1057(60),1058(10),1059(10),1063(60),1064(10),1065(10);0;GPS+GLO;Misc;DEU;50.00;10.00;0;1;RTNet;none;B;N;1800;BKG
STR;SIRGAS95;BRDC_APC_SIRGAS95;RTCM 3.0;1057(60),1058(10),1059(10),1063(60),1064(10),1065(10);0;GPS+GLO;Misc;DEU;50.00;10.00;0;1;RTNet;none;B;N;1800;BKG
STR;IGSO3;BRDC_APC_ITRF;RTCM 3.0;1057(60),1058(5),1059(5),1063(60),1064(5),1065(5);0;GPS+GLO;Misc;DEU;50.08967;8.66458;0;1;BNC;none;B;N;1800;IGS Combination
STR;ESQU-v3.0;Esquel, Chubut (ESQU-v3.0);RTCM 3.0;1004(1),1006(10),1008(10),1012(1),1013(10);2;GPS+GLO;RAMSAC;ARG;-42.92;-71.32;0;0;TRIMBLE NETR9;none;B;N;1500;Marco
POSGAR07-ITRF2005(2006.632)-SIRGAS
STR;CATA-v3.0;Catamarca, Catamarca (CATA-v3.0);RTCM 3.0;1004(1),1006(10),1008(10),1012(1),1013(10);2;GPS+GLO;RAMSAC;ARG;-28.47;-65.77;0;0;TRIMBLE
NETR9;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
STR;RWSN-v3.0;Rawson, Chubut (RWSN-v3.0);RTCM 3.0;1004(1),1006(10),1008(10),1012(1),1013(10),1033(10);2;GPS+GLO;RAMSAC;ARG;-43.28;-65.10;0;0;LEICA
GR10;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
STR;AZUL-v3.0;Azul, Buenos Aires (AZUL-v3.0);RTCM 3.0;1004(1),1006(10),1008(10),1012(1),1013(10);2;GPS+GLO;RAMSAC;ARG;-36.77;-59.87;0;0;TRIMBLE
NETR5;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
STR;ERECO;Riobamba;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;ECU;-01.67;-78.65;0;0;Trimble NetR9;none;B;N;5700;REGME_Ecuador
ENDSOURCETABLE

Welcome to the NtripCaster Web Status Interface

This server is huerta-pb.fceia.unr.edu.ar, located in [UNR](#), and run by noguera@fceia.unr.edu.ar

Listening on port 2101, with the current limitations:

Listeners: 1000

Sources: 50

Max listeners per source: 1000

Will throttle at 2000 KB/s, and currently using 10 KB/s

huerta-pb.fceia.unr.edu.ar has been up 1 days, 0 hours, 55 minutes and 15 seconds, since 17/Nov/2017:10:41:33.

[statistics](#) Show the server statistics

[sourcetable](#) Show sourcetable

[listeners](#) List connected listeners

[sources](#) List connected sources

[admins](#) List connected admins

[settings](#) List server settings

Sourcetable

- CAS;rtcm-ntrip.org;2101;NtripInfoCaster;BKG;0;DEU;50.12;8.69;http://www.rtcn-ntrip.org/home
- CAS;www.euref-ip.net;2101;EUREF-IP;BKG;0;DEU;50.12;8.69;http://www.euref-ip.net/home
- STR;AGCA0;Aguachica;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;COL;08.32;-73.60;0;0;Trimble NetR9;none;B;N;5700;MagnaEco IGAC
- STR;AUTF;Ushuaia, Tierra del Fuego (AUTF-v2.3);RTCM 2.3;1(1),3(10),18(1),19(1),22(10),23(10),24(10);2;GPS;RAMSAC;ARG;-54.83;-68.30;0;0;TRIMBLE NETRS;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;AUXI1;Rosario;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;ARG;-32.96;-60.63;0;0;Trimble NetR9;none;B;N;5700;Universidad Nacional de Rosario
- STR;AUXI2;Rosario;RAW;1(1),3(60),18(1),19(1),22(60);2;GPS;Misc;ARG;-32.96;-60.63;0;0;ASHTech Z-XII3;none;B;N;5700;Universidad Nacional de Rosario
- STR;AZUL-v2.3;Azul, Buenos Aires (AZUL-v2.3);RTCM 2.3;1(1),3(10),18(1),19(1),22(10);2;GPS+GLO;RAMSAC;ARG;-36.77;-59.87;0;0;TRIMBLE NETR5;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;AZUL-v3.0;Azul, Buenos Aires (AZUL-v3.0);RTCM 3.0;1004(1),1006(10),1008(10),1012(1),1013(10);2;GPS+GLO;RAMSAC;ARG;-36.77;-59.87;0;0;TRIMBLE NETR5;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;BOGA0;Bogota;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;COL;04.64;-74.08;0;0;Trimble NetR9;none;B;N;5700;MagnaEco IGAC
- STR;CART0;Cartagena;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;COL;10.39;-75.53;0;0;Trimble NetR9;none;B;N;5700;MagnaEco IGAC
- STR;CATA-v2.3;Catamarca, Catamarca (CATA-v2.3);RTCM 2.3;1(1),3(10),18(1),19(1),22(10);2;GPS+GLO;RAMSAC;ARG;-28.47;-65.77;0;0;TRIMBLE NETR9;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;CATA-v3.0;Catamarca, Catamarca (CATA-v3.0);RTCM 3.0;1004(1),1006(10),1008(10),1012(1),1013(10);2;GPS+GLO;RAMSAC;ARG;-28.47;-65.77;0;0;TRIMBLE NETR9;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;CLK10;BRDC_APC_ITRF;RTCM 3.0;1057(60),1059(5),1060(5);2;GPS;Misc;DEU;50.09;8.66;0;0;BNS;none;B;N;5700;BKG
- STR;CLK9B;BRDC_APC_ITRF;RTCM 3.0;1059(5),1060(5),1065(5),1066(5);2;GPS+GLO;Misc;FRA;43.56;1.48;0;0;PPP-WIZARD;none;B;N;5700;CNES
- STR;CLOCK;BRDC_APC_ITRF;RTCM 3.0;1057(60),1059(5),1060(5);2;GPS;Misc;DEU;50.09;8.66;0;0;BNS;none;B;N;5700;BKG
- STR;CSLO;El Leoncito, San Juan (CSLO-v2.3);RTCM 2.3;1(5),3(10),18(1),19(1),20(1),21(1);2;GPS;RAMSAC;ARG;-31.78;-69.30;0;0;TRIMBLE NETRS;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;CUCU0;Cucuta;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;COL;07.90;-72.49;0;0;Trimble NetR9;none;B;N;5700;MagnaEco IGAC
- STR;EPGZ3;Galvez;RTCM 3.0;1004(1),1006(60),1008(60),1012(1);2;GPS;Misc;ARG;0.00;0.00;0;0;Trimble;none;B;N;5700;Municipalidad de Galvez
- STR;EREC0;Riobamba;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;ECU;-01.67;-78.65;0;0;Trimble NetR9;none;B;N;5700;REGME Ecuador
- STR;ESQU-v2.3;Esquel, Chubut (ESQU-v2.3);RTCM 2.3;1(1),3(10),18(1),19(1),22(10);2;GPS+GLO;RAMSAC;ARG;-42.92;-71.32;0;0;TRIMBLE NETR9;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;ESQU-v3.0;Esquel, Chubut (ESQU-v3.0);RTCM 3.0;1004(1),1006(10),1008(10),1012(1),1013(10);2;GPS+GLO;RAMSAC;ARG;-42.92;-71.32;0;0;TRIMBLE NETR9;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;IBAG0;Ibague;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;COL;04.43;-75.21;0;0;Trimble NetR9;none;B;N;5700;MagnaEco IGAC
- STR;IGM1-v2.3;CABA IGN (IGM1-v2.3);RTCM 2.3;1(5),3(10),18(1),19(1),20(1),21(1);2;GPS;RAMSAC;ARG;-34.57;-58.44;0;0;TRIMBLE NETR9;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;IGM1-v3.0;CABA IGN (IGM1-v3.0);RTCM 3.0;1004(1),1006(10),1008(10),1012(1),1013(10);2;GPS;RAMSAC;ARG;-34.57;-58.44;0;0;TRIMBLE NETR9;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;IGS03;BRDC_APC_ITRF;RTCM 3.0;1057(60),1058(5),1059(5),1063(60),1064(5),1065(5);0;GPS+GLO;Misc;DEU;50.08967;8.66458;0;1;BNC;none;B;N;1800;IGS Combination
- STR;MEDE0;Medellin;RTCM 2.3;1(1),3(60),18(1),19(1),22(60);2;GPS+GLO;Misc;COL;06.20;-75.58;0;0;Trimble NetR9;none;B;N;5700;MagnaEco IGAC
- STR;MZAC-v2.3;Mendoza, Mendoza (MZAC-v2.3);RTCM 2.3;1(1),3(10),18(1),19(1),22(10);2;GPS+GLO;RAMSAC;ARG;-32.90;-68.88;0;0;LEICA GRX1200+GNSS;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS
- STR;MZAC-v3.0;Mendoza, Mendoza (MZAC-v3.0);RTCM 3.0;1004(1),1006(10),1008(10),1012(1),1013(10);2;GPS+GLO;RAMSAC;ARG;-32.90;-68.88;0;0;LEICA GRX1200+GNSS;none;B;N;1500;Marco POSGAR07-ITRF2005(2006.632)-SIRGAS

Connected Listeners

- [Host: 62.117.86.231] [IP: 62.117.86.231] [User: 1325] [Mountpoint /UNRO3] [Id: 224] [Connected for: 2 days, 2 hours, 45 minutes and 49 seconds] [Bytes written: 56408924] [Errors: 0] [User agent: NTRIP client (c) A.S. [IAC]] [Type: http client]
- [Host: 62.117.86.231] [IP: 62.117.86.231] [User: 1325] [Mountpoint /AZUL-v3.0] [Id: 225] [Connected for: 2 days, 2 hours, 45 minutes and 48 seconds] [Bytes written: 60437058] [Errors: 0] [User agent: NTRIP client (c) A.S. [IAC]] [Type: http client]
- [Host: 212.15.115.82] [IP: 212.15.115.82] [User: 1325] [Mountpoint /UNRO3] [Id: 242] [Connected for: 2 days, 2 hours, 45 minutes and 18 seconds] [Bytes written: 56400880] [Errors: 0] [User agent: NTRIP client (c) A.S. [IAC]] [Type: http client]
- [Host: 212.15.115.82] [IP: 212.15.115.82] [User: 1325] [Mountpoint /AZUL-v3.0] [Id: 246] [Connected for: 2 days, 2 hours, 45 minutes and 15 seconds] [Bytes written: 60426706] [Errors: 0] [User agent: NTRIP client (c) A.S. [IAC]] [Type: http client]
- [Host: 147.83.104.219] [IP: 147.83.104.219] [User: 1329] [Mountpoint /UNRO3] [Id: 40847] [Connected for: 1 days, 8 hours, 30 minutes and 30 seconds] [Bytes written: 35839971] [Errors: 0] [User agent: NTRIP BNC/2.12.2 (LINUX)] [Type: http client]
- [Host: 147.83.104.219] [IP: 147.83.104.219] [User: 1329] [Mountpoint /RWSN-v3.0] [Id: 40859] [Connected for: 1 days, 8 hours, 30 minutes and 22 seconds] [Bytes written: 29848893] [Errors: 0] [User agent: NTRIP BNC/2.12.2 (LINUX)] [Type: http client]
- [Host: 147.83.104.219] [IP: 147.83.104.219] [User: 1329] [Mountpoint /UCOR3] [Id: 84506] [Connected for: 13 hours, 2 minutes and 30 seconds] [Bytes written: 15415234] [Errors: 0] [User agent: NTRIP BNC/2.12.2 (LINUX)] [Type: http client]
- [Host: 213.85.191.130] [IP: 213.85.191.130] [User: 1325] [Mountpoint /AZUL-v3.0] [Id: 84678] [Connected for: 12 hours, 58 minutes] [Bytes written: 15462505] [Errors: 0] [User agent: NTRIP-IAC-RUSSIA] [Type: http client]
- [Host: 213.85.191.130] [IP: 213.85.191.130] [User: 1325] [Mountpoint /RWSN-v3.0] [Id: 84689] [Connected for: 12 hours, 57 minutes and 52 seconds] [Bytes written: 11937566] [Errors: 0] [User agent: NTRIP-IAC-RUSSIA] [Type: http client]
- [Host: 213.85.191.130] [IP: 213.85.191.130] [User: 1325] [Mountpoint /SIRGAS2000] [Id: 84691] [Connected for: 12 hours, 57 minutes and 52 seconds] [Bytes written: 3026093] [Errors: 0] [User agent: NTRIP-IAC-RUSSIA] [Type: http client]
- [Host: 213.85.191.130] [IP: 213.85.191.130] [User: 1325] [Mountpoint /SIRGAS95] [Id: 84692] [Connected for: 12 hours, 57 minutes and 52 seconds] [Bytes written: 3026093] [Errors: 0] [User agent: NTRIP-IAC-RUSSIA] [Type: http client]
- [Host: 213.85.191.130] [IP: 213.85.191.130] [User: 1325] [Mountpoint /IGS03] [Id: 84693] [Connected for: 12 hours, 57 minutes and 52 seconds] [Bytes written: 3026093] [Errors: 0] [User agent: NTRIP-IAC-RUSSIA] [Type: http client]
- [Host: 213.85.191.130] [IP: 213.85.191.130] [User: 1325] [Mountpoint /RTCM3EPH] [Id: 84702] [Connected for: 12 hours, 57 minutes and 36 seconds] [Bytes written: 59237523] [Errors: 0] [User agent: NTRIP-IAC-RUSSIA] [Type: http client]
- [Host: 213.85.191.130] [IP: 213.85.191.130] [User: 1325] [Mountpoint /UCOR3] [Id: 84703] [Connected for: 12 hours, 57 minutes and 36 seconds] [Bytes written: 15323384] [Errors: 0] [User agent: NTRIP-IAC-RUSSIA] [Type: http client]
- [Host: 213.85.191.130] [IP: 213.85.191.130] [User: 1325] [Mountpoint /UNRO3] [Id: 84909] [Connected for: 12 hours, 52 minutes and 4 seconds] [Bytes written: 13747364] [Errors: 0] [User agent: NTRIP-IAC-RUSSIA] [Type: http client]

Listing sources

Mountpoint	Id	Host	Source Agent	Time of connect	IP	Clients	KBytes read	KBytes written	Client connections	Connected for
/UNRO3	2	192.168.192.31	NTRIP Caster/2.0.15 (direct access)	17/Nov/2017:10:41:33	192.168.192.31	4	27188	104729	7	1 days, 0 hours, 58 minutes and 5 seconds
/ESQU-v3.0	12	201.251.125.3	NTRIP trimble 2.0	17/Nov/2017:10:41:39	201.251.125.3	2	27633	51480	4	1 days, 0 hours, 57 minutes and 59 seconds
/IGS03	13	78.46.41.26	NTRIP Caster/2.0.15 (relay)	17/Nov/2017:10:41:39	78.46.41.26	1	5727	5341	2	1 days, 0 hours, 57 minutes and 59 seconds
/RTCM3EPH	14	78.46.41.26	NTRIP Caster/2.0.15 (relay)	17/Nov/2017:10:41:39	78.46.41.26	1	110418	103311	2	1 days, 0 hours, 57 minutes and 59 seconds
/SIRGAS2000	15	78.46.41.26	NTRIP Caster/2.0.15 (relay)	17/Nov/2017:10:41:39	78.46.41.26	1	5727	5340	2	1 days, 0 hours, 57 minutes and 59 seconds
/SIRGAS95	16	78.46.41.26	NTRIP Caster/2.0.15 (relay)	17/Nov/2017:10:41:39	78.46.41.26	1	5727	5342	2	1 days, 0 hours, 57 minutes and 59 seconds
/UNRO0	20	192.168.192.1	NTRIP trimble .1	17/Nov/2017:10:41:42	192.168.192.1	0	47045	229	1	1 days, 0 hours, 57 minutes and 56 seconds
/AZUL-v3.0	37	186.65.103.71	NTRIP trimble 1.100.2.1	17/Nov/2017:10:41:59	186.65.103.71	3	28958	84961	4	1 days, 0 hours, 57 minutes and 39 seconds
/RWSN-v3.0	10366	181.21.52.97	NTRIP Leica System 1300/1.0	17/Nov/2017:15:21:00	181.21.52.97	2	18402	26826	3	20 hours, 18 minutes and 38 seconds
/UCOR3	16146	200.16.19.17	NTRIP Leica System 1300/1.0	17/Nov/2017:18:00:16	200.16.19.17	2	20435	38365	4	17 hours, 39 minutes and 22 seconds
/EREC0	42920	190.95.195.202	NTRIP trimble 2.0	18/Nov/2017:05:57:46	190.95.195.202	1	12658	7779	2	5 hours, 41 minutes and 52 seconds
/CATA-v3.0	47113	190.136.177.62	NTRIP trimble 1.41.2.19	18/Nov/2017:07:50:14	190.136.177.62	3	4116	12265	3	3 hours, 49 minutes and 24 seconds
/UD01_RTK	55726	200.69.103.24	NTRIP Caster/2.0.15 (direct access)	18/Nov/2017:11:39:35	200.69.103.24	0	0	0	0	3 seconds

End of source listing

Mapa de Estaciones Tiempo Real



- ☒ SIRGAS (Exp)
- ☒ REGNA-SGM (Uy)
- ☒ RAMSAC-NTRIP (Ar)
- ☒ IBGE-IP (Br)
- ☒ IGS-RT
- ☒ BASE

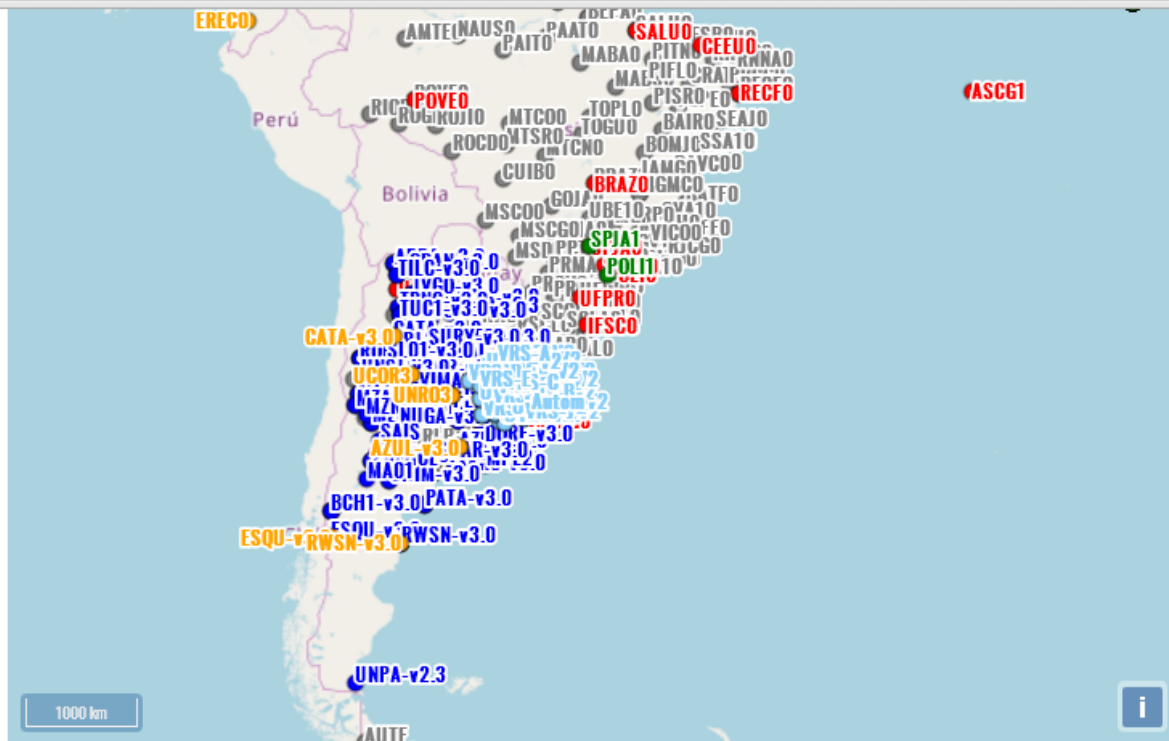
Mapas base

- ☐ Satellite
- ☒ OpenStreetMap
- ☐ Stamen toner

Este mapa informa el estado de los casters y estaciones que tienen posibilidad de transmitir datos en tiempo real en la región.

Sobre la capa base se representan en color las estaciones que están transmitiendo efectivamente en tiempo real al momento de la consulta y su clasificación en capas según el caster en que están presentes.

La consulta para este mapa se hace sobre la página de acceso libre de cada caster indicado en la tabla; para obtener los streams de datos tiempo real de alguna estación por favor ponerse en contacto con la dirección indicada.



caster en que están presentes.

La consulta para este mapa se hace sobre la página de acceso libre de cada caster indicado en la tabla; para obtener los streams de datos tiempo real de alguna estación por favor ponerse en contacto con la dirección indicada.

Tabla de Casters consultados

Caster	IP:Puerto	Contacto
SIRGAS Experimental	http://200.3.123.65:2101	http://www.fceia.unr.edu.ar/gps/
REGNA-SGM (Uy)	http://201.217.132.178:2101	http://www.sgm.gub.uy/
RAMSAC-NTRIP (Ar)	http://ntrip.ign.gob.ar:2101	http://www.ign.gob.ar/NuestrasActividades/Geodesia/RamsacNtrip/
IBGE - IP (Br)	http://gps-ntrip.ibge.gov.br:2101	http://www.ibge.gov.br/home/geociencias/geodesia/rbmc/ntrip/
IGS-RT	http://www.igs-ip.net:2101	http://register.rtcn-ntrip.org/cgi-bin/registration.cgi

Configuración NTRIP Server

Opciones Modelos de Receptores GNSS

“Modernos”: con conectividad directa a internet

“Anteriores”: salida RTCM via puerto serie a una PC para conectarse a internet



Conectividad directa a internet

Salida RTCM via puerto serie a una PC para conectarse a internet



Formulario de Registro

Proveedor de datos al Caster SIRGAS Experimental

Muchas gracias por su intención de publicar datos en tiempo real a través de Caster SIRGAS Experimental, por favor complete el formulario para solicitar un ID y contraseña de acceso al servidor para cargar el stream de datos GNSS en tiempo real de una estación permanente integrada a SIRGAS-CON utilizando el protocolo NTRIP.

Registro de proveedores de datos Caster SIRGAS experimental

ID de la estación
permanente *

Institución

Institución

Dirección

Dirección

Ciudad/País

Ciudad o País donde reside

Teléfono

Teléfono de contacto

Nombre de contacto *

Nombre

e-mail de contacto *

Correo electrónico

Descripción

GNSS Data Center x FCEIA - UNR x UNRO - 2017-11-18T12:26:0 x Persona 1

200.3.123.25

Trimble. UNRO **NetR9**
SN: 5146K79877



- Receiver Status
- Satellites
- Data Logging
- Receiver Configuration
- I/O Configuration
- Bluetooth
- OmniSTAR
- Network Configuration
- Security
- Firmware
- Help

Trimble - GNSS Infrastructure Receiver



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 - Port Summary
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- Help

I/O Configuration

Type	Port	Input	Output
TCP/IP	5017	-	RT27(1Hz)
TCP/IP	5018	-	-
TCP/IP	5020	-	RTCM_V3
TCP/IP	5021	-	RTCM_V3
TCP/IP	28001	-	-
TCP/IP	28002	-	-
NTRIP Client 1	-	-	-
NTRIP Client 2	-	-	-
NTRIP Client 3	-	-	-
NTRIP Server 1	ntrip.ign.gob.ar:2101/UNRO-v3.0	-	RTCM_V3
NTRIP Server 2	ntrip.ign.gob.ar:2101/UNRO-v2.3	-	RTCM
NTRIP Server 3	200.3.123.65:2101/UNRO0	-	RTCM
NTRIP Caster 1	2101	-	-
NTRIP Caster 2	2102	-	-
NTRIP Caster 3	2103	-	-
Serial	Serial 1 (38.4K-8N1)	-	-
Serial	Serial 2 (38.4K-8N1)	-	-
Bluetooth	1	-	-



UNRO

NetR9

SN: 5146K79877



Receiver Status

Satellites

Data Logging

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Help

I/O Configuration

NTRIP Server 3

NTRIP Server

Status: Up and Connected

Enable: ☒

NTRIP Version: NTRIP v1.0

NtripCaster http:// 200.3.123.65:2101

Mount Point: UNRO0

Username: UNRO0

Password:

Verify Password:

Identifier: 5146K79877

Country:

Network:

CMR: Disabled

Delay: 0 msec

Epoch Interval

Off

☒ Measurements

☒ Positions

RT27

Options

☒ Concise

☒ R-T Flag

☐ Send Raw GPS Data

☐ Send Raw SBAS Data

☒ Multi-System Support

☐ Smooth Pseudorange

☐ Smooth Phase

☐ Include Doppler

GPS Ephemeris When new one is available



UNRO

NetR9

SN: 5146K79877



Receiver Status

Satellites

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OmniSTAR

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Help

RTCM:

Enabled ☐ Version: 2.3 Type: RTK+DGPS

Advanced Settings

Ephemeris Holdoff: Off

Record Type 1: 1 Sec.

Record Type 31: Off

Record Type 3: 10 Sec.

Record Type 32: Off

GLONASS Datum: PZ90

Record Type 2: ☒

Other Record Types: ☒

CR/LF: ☐

L2 Signal: Legacy with L2 - CS fallback

OmniSTAR: Data for Trimble: Disabled

Measurements

Off Interval Delay: 0 msec

☐ Smooth Pseudorange
 ☐ Smooth Phase

☐ Variable-Rate
 ☐ With Cycle Slip Counters

☐ With L1 Doppler
 ☐ With Clock Offsets - Always

☐ With Clock Offsets - On Rollovers
 ☐ Use record type 7F03 instead of 7F05

BINEX:

MetaData

Off Interval

☐ Marker Name
 ☐ Marker Number
 ☐ Station ID

GNSS Data Center x FCEIA - UNR x UNRO - 2017-11-18T12:33:0 x Persona 1

200.3.123.25

Trimble

UNRO

NetR9

SN: 5146K79877

**Receiver Status****Satellites****Data Logging****Receiver Configuration****I/O Configuration****Port Summary****Port Configuration****Bluetooth****Omnistar****Network Configuration****Security****Firmware****Help**

I/O Configuration

TCP/IP 5020 RTCM

Server: TCP 192.168.192.31: 5020

Connected to remote 192.168.192.30:54123

- ☐ Client
- ☐ Output only/Allow multiple connections
- ☐ UDP Mode
- ☐ Authenticate, set password:

Input/Output

Output:RTCM_V3

RTCM

Enabled Version: 3.0 Type: RTK

☐ Bandwidth limit :

Advanced Settings

Record Type 1004: 1 Sec.

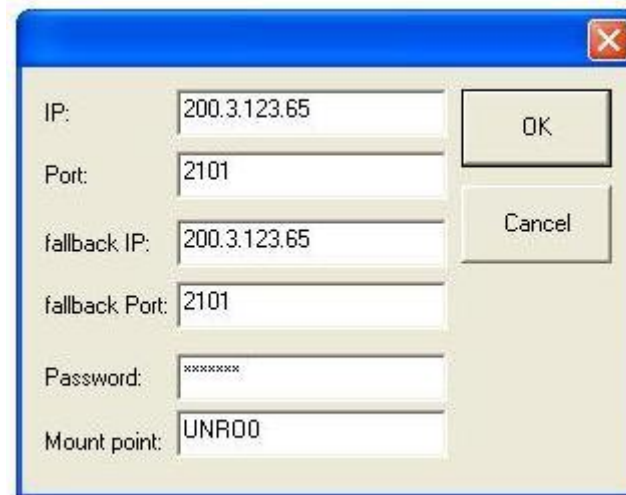
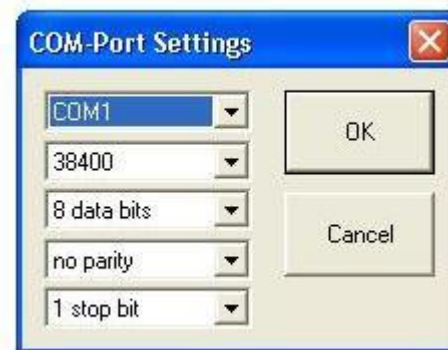
Record Type 1012: 1 Sec.

Record Type 1019: Off

Record Type 1020: Off

Fugro Type 4087 Variants: ☐

Receptores que requieren una PC para conectarse a internet
(RTCM por puerto COM)
Ntrip Server para Windows



También versión de Ntrip Server CMD y Linux

LogMeIn - Sesión remota

Mis documentos LogMeIn

Mi PC GNSS Internet Radio

Mis sitios de red Explorador de Windows

Internet Explorer WS_FTP32

Mozilla Firefox VSPE

Adobe Reader 8

Ntrip Server

Ntrip Server 1.3.1

Settings

COM-Port

NtripCaster

Reconnection

START STOP

Transmitting data to Standard-Caster

Ntrip Server 1.3.1

Settings

COM-Port

NtripCaster

Reconnection

START STOP

Transmitting data to Standard-Caster

Virtual Serial Ports Emulator (Emulation started)

File View Language Emulation Device Help

COM1 => COM3

Splitter

OK

Inicio

Ntrip Server 1.3.1

Ntrip Server 1.3.1

Virtual Serial Ports Em...

E5

19:52

FCEIA - UNR x epgps - LogMeIn x

https://epgps-tqbmyashin.app06.logmein.com/main.html

Inicio Control Remoto Preferencias Ayuda Desconectar

epgps QuickLinks Opciones

LogMeIn - Sesión remota

C:\WINDOWS\system32\cmd.exe

```
WARNING: could not send data to Destination caster: No error
reconnect in <1> seconds

serial input: device = com3, speed = 19200
caster output: host = 190.220.8.208, port = 2101, mountpoint = UNRO, mode = ntrip1

transferring data ...
WARNING: could not send data to Destination caster: No error
reconnect in <1> seconds

serial input: device = com3, speed = 19200
caster output: host = 190.220.8.208, port = 2101, mountpoint = UNRO, mode = ntrip1

transferring data ...
WARNING: could not send data to Destination caster: No error
reconnect in <1> seconds

serial input: device = com3, speed = 19200
caster output: host = 190.220.8.208, port = 2101, mountpoint = UNRO, mode = ntrip1

transferring data ...
ERR our
source already logged in.
WARN
reconnect in <32> seconds

serial input: device = com3, speed = 19200
caster output: host = 200.16.19.17, port = 2101, mountpoint = UNROSAG, mode = ntrip1

transferring data ...
WARN
reconnect in <32> seconds

serial input: device = com3, speed = 19200
caster output: host = 78.46.41.8, port = 2101, mountpoint = UNRO0, mode = ntrip1

transferring data ...
```

LogMeIn Free

Inicio Trimble GPSBase - [ft... 3 Procesador de co... ES 19:26

Cifrado: AES256-SHA