

EPOS-GNSS WEBINAR, 18-19 JANUARY 2021



The EPOS GNSS Data Gateway

- Presentation of the EPOS-GNSS Data Gateway
- ➤ How to explore and download data & metadata
 - with the EPOS GNSS web client
 - with the command line client

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Collaborators : K.M. Ngo, A. Fontaine



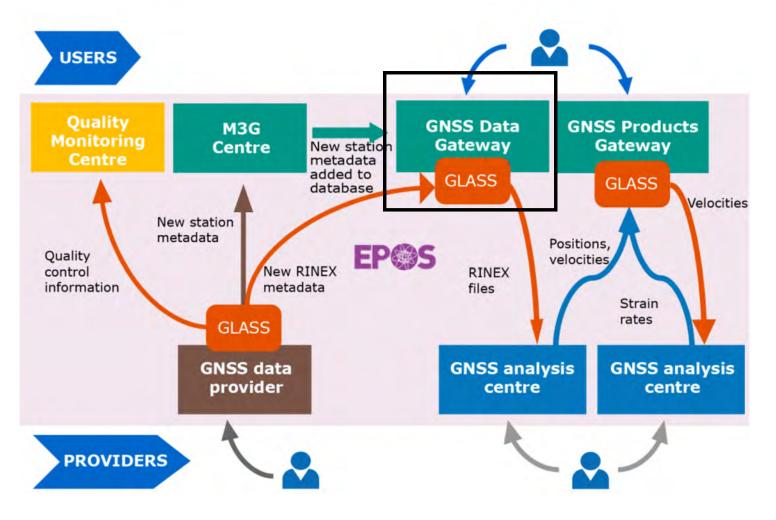








The EPOS GNSS Data Gateway (DGW)

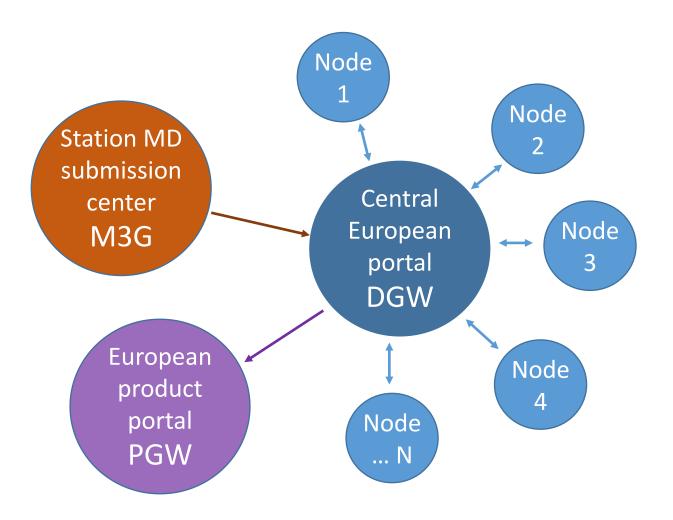


- The portal where users can request for GNSS metadata and data of all the GNSS stations integrated to the EPOS network
- System supporting the portal is hosted at the Côte d'Azur Observatory and maintained by CNRS (Fr)
- What is it?
- How does it work?
- What is its current status?





The DGW: What is it?



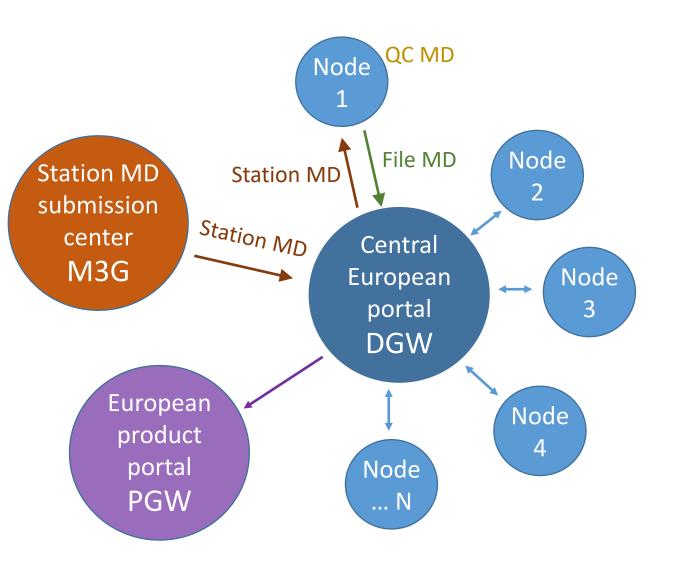
- > The EPOS GNSS distribution system:
- developed in the framework of the EPOS-IP project
- designed to provide access to data from 2000+ GNSS stations from data centers across Europe

Principle: a European portal system integrating data and metadata from independent local nodes





The DGW: How does it works?



It works with **transfers of metadata**:

- station metadata from the submission center (M3G) to the Data Gateway
- **station metadata** from the Data Gateway to the local node
- file metadata from the local nodes to the Data Gateway, if their QC are validated

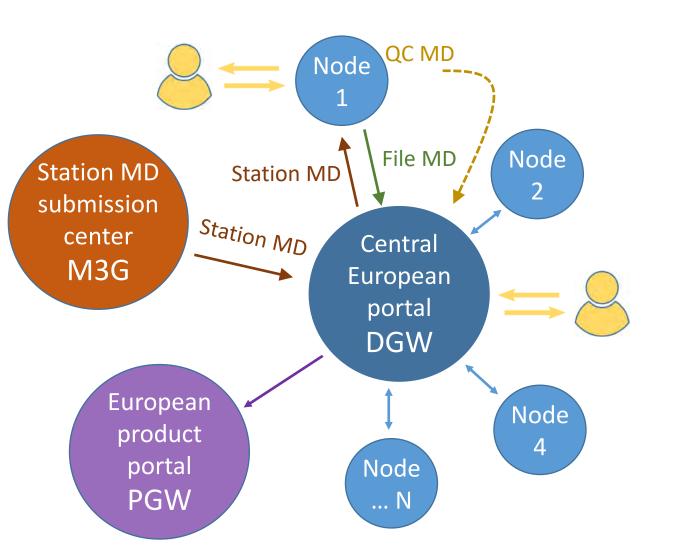
The QC metadata stay at the local node

The (rinex) **files** stay in their data center





The DGW: How does it works?



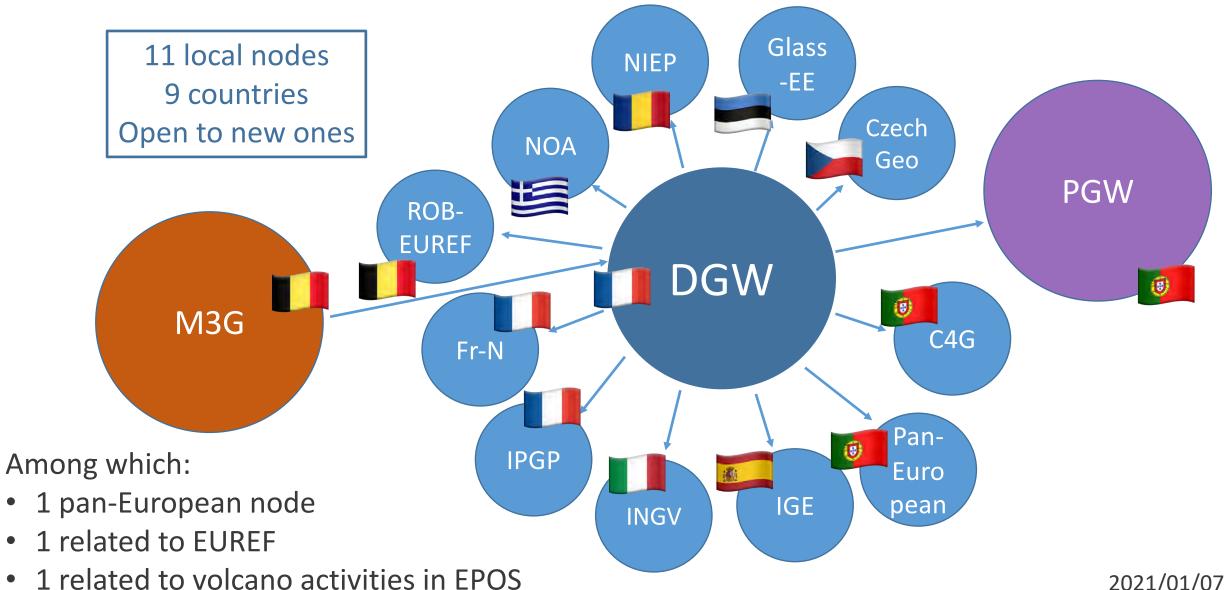
What does it mean?

- All data and metadata can be found and requested through the Data Gateway (even QC metadata)
- "Local" data and metadata can be found and requested at the local nodes
- Unique metadata for a data file over the system





Current status of the node network as seen by the DGW

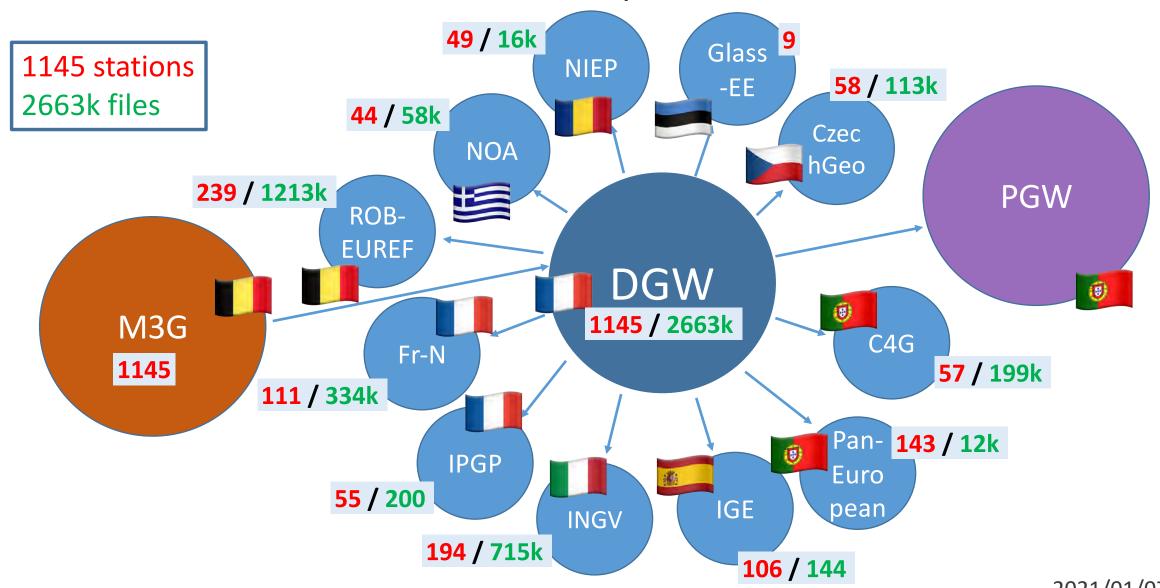




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What is currently available?

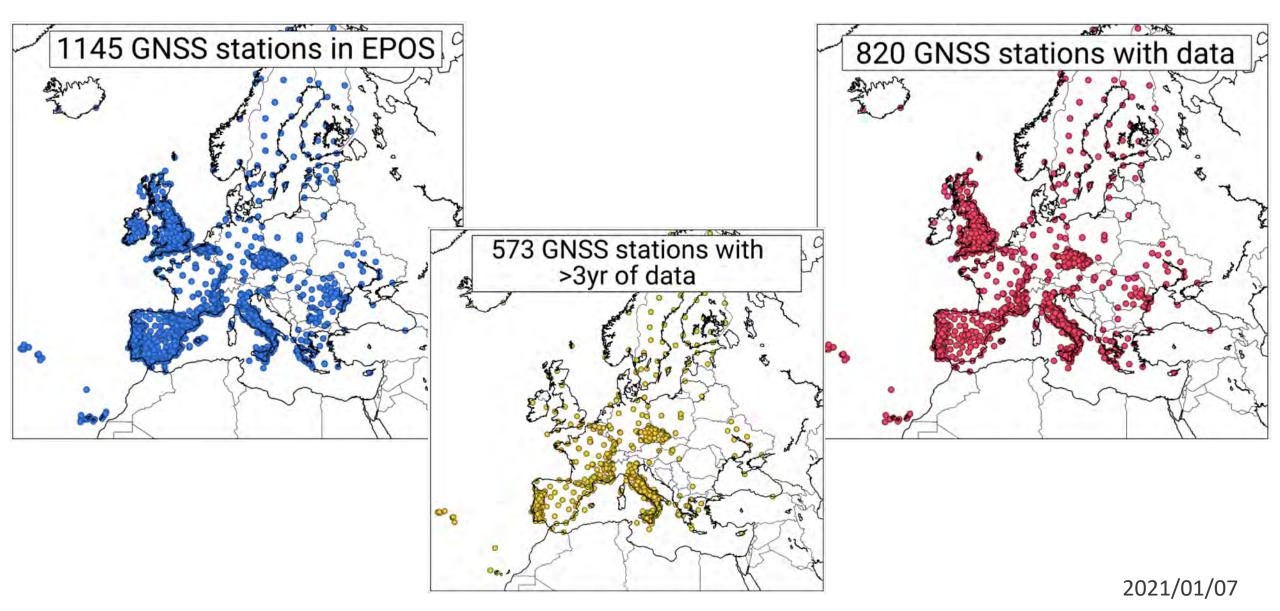




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What is currently available?

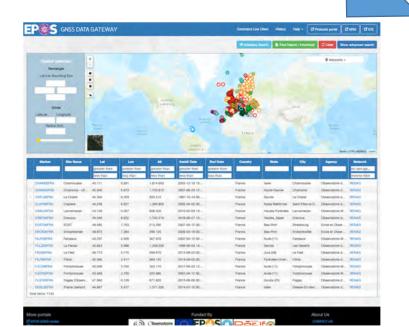






How to use the EPOS GNSS web and command line clients to get GNSS data and metadata







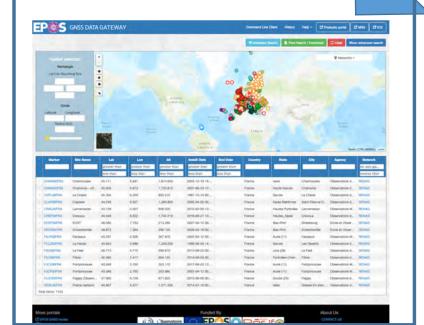
Command Line Client





How to use the EPOS GNSS web and command line clients to get GNSS data and metadata







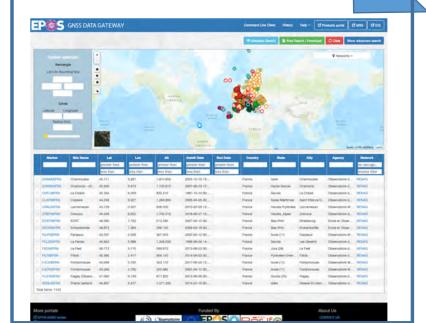
Command Line Client





How to use the EPOS GNSS web client

Web Client



- Overview of the web client
- Discovering and downloading metadata
- Discovering and downloading data

http://gnssdata-epos.oca.eu

See the video of the demo

http://gnssdata-epos.oca.eu or https://gnss-epos.eu/webinar-2021/





How to use the EPOS GNSS command line client

- Overview of the command line client
- Discovering and downloading metadata
- Discovering and downloading data

Tool accessible via http://gnssdata-epos.oca.eu

See the video of the demo

http://gnssdata-epos.oca.eu or https://gnss-epos.eu/webinar-2021/

Command Line Client | Command Line Client |





Portals and useful links for EPOS GNSS data

• M³G: https://gnss-metadata.eu/

• Data Gateway: http://gnssdata-epos.oca.eu/

Product Portal: https://gnssproducts.epos.ubi.pt/

• ICS: https://www.ics-c.epos-eu.org/

To contact the Data Gateway: gnss-dgw@oca.eu



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Last Update: October 18, 2019 Last Update: April 11, 2017

Last Update: June 12, 2018

Last Update: August 31, 2020

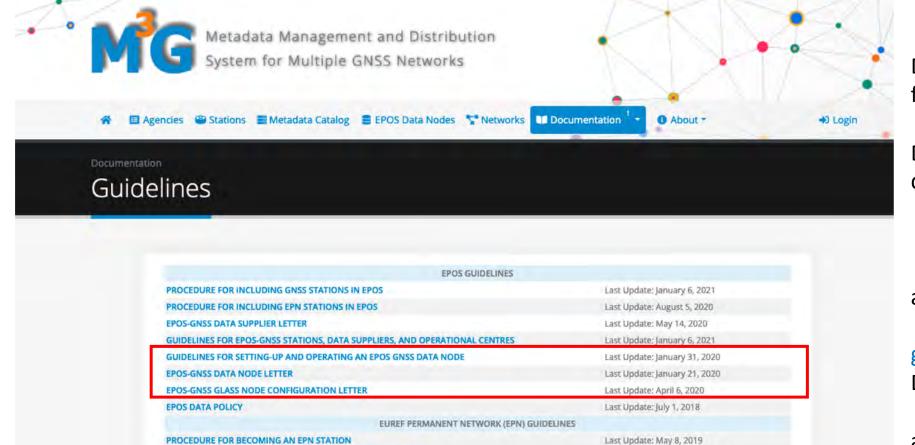


How to become a GLASS node?

GUIDELINES FOR EPN DATA CENTRES & EPN BROADCASTERS

GUIDELINES FOR EPN ANALYSIS CENTRES

CONTACT AND AGENCY INFORMATION IN M3G



ADDITIONAL INFORMATION

Documentation currently available from the M3G Documentation Page

Do not hesitate to contact (inside documentation):

m3g@oma.be (M3G)

and

gnss-dgw@oca.eu (EPOS GNSS Data Gateway – node coordinator)

and

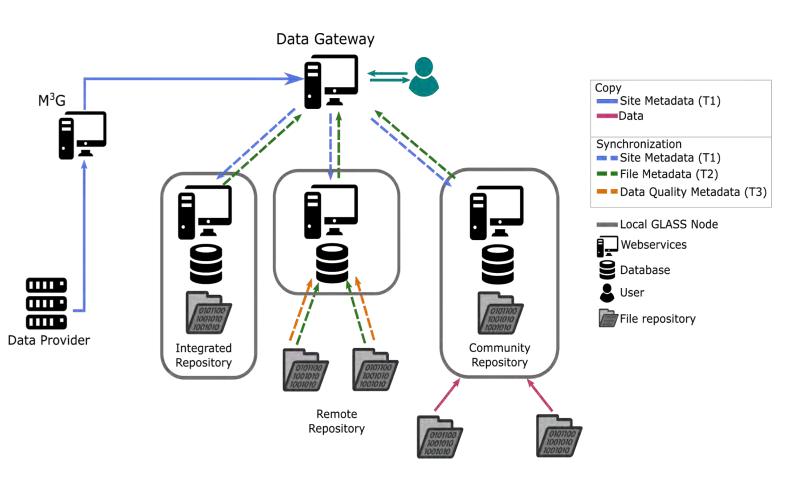
software@gnss-epos.eu (software coordinator)



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Three solutions (data flow schemes) to make EPOS data discoverable through a GLASS node



Option 1: Integrated Repository

GLASS node and **Data Repository(ies)** hosted at the same location and managed by a single agency.

→ Activity centralized at the node (generation of file and QC metadata)

Option 2: Remote Repository

GLASS node and **Data Repository(ies)** physically independent and managed by different agencies.

→ An agreement between the repository owner and node manager to decide who is doing what

Option 3: Community Repository

Data owner transfers the (rinex) files to this repository.