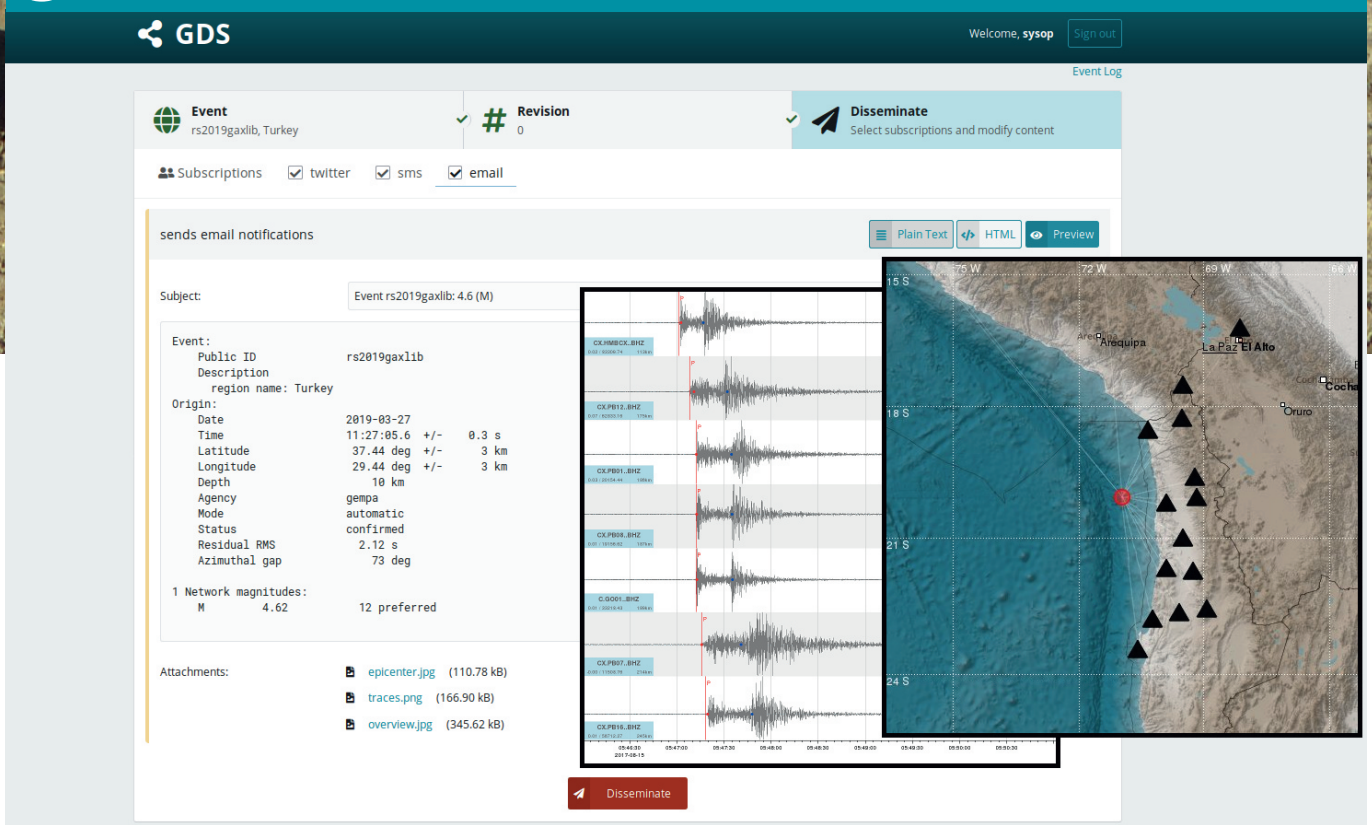
GDS
Disseminate your achievements

gempa Dissemination Server



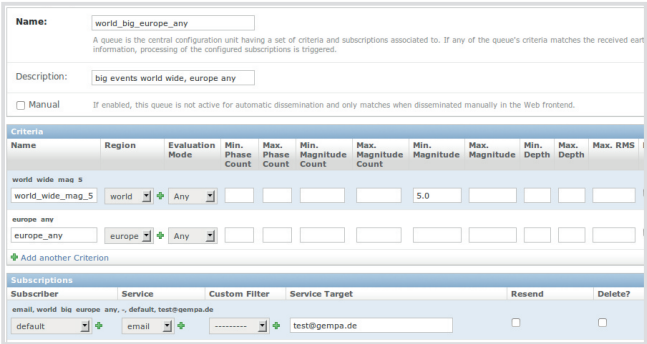
Inform All Your Stakeholders

gempa's communication, dissemination and publication tools, **GDS**, **QuakeLink** and **GIS** collect event information and disseminate template-based messages through various communication channels such as SMS, email, Twitter and web. Using a plugin technology they import and filter earthquake information from different sources before dissemination. Fully automatic and highly interactive dissemination are available. GDS, QuakeLink and GIS complement the functionalities of SeisComP, SIGMA and TOAST in the domain of dissemination of notifications and warnings.

With GDS you keep your customers and stakeholders informed, saving lives and protecting essential infrastructure.

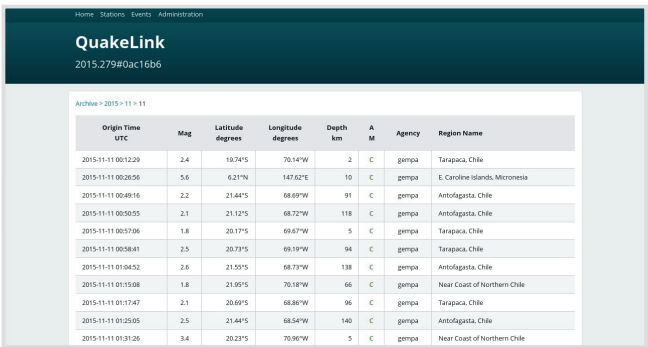
FEATURES

- Bulletin creation from customized template
- Various communication channels, e.g. SMS, email, fax, web, Twitter
- Fine-grained access control, different roles and privileges
- Automatic and manual dissemination
- Web-based user interface
- Connects to TOAST and SIGMA
- Detailed logging
- High-availability mode
- Modular and expandable



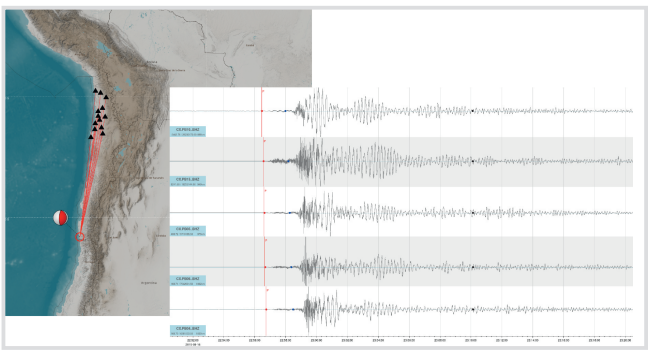
GDS – Dissemination

In **GDS**, the central configuration unit is a queue having information filters and associated subscriptions. If any of a queue's criteria matches the received earthquake information, processing of the configured subscriptions is triggered. Queues can be configured to require manual review before dissemination.



QuakeLink – Communication

QuakeLink is the recommended utility for communication between a SeisComP system, GDS and GAPS. It allows to exchange earthquake information in real time or in time windows and is the base for redundant SeisComP systems. QuakeLink offers plug-ins to import earthquake information from different sources.



GIS – Image Rendering

GIS is a Web server rendering map, trace and spectrum images for a particular earthquake. Maps can be plotted with epicenter, station and moment tensor symbols and even polygons indicating warning zones or administrative borders. Traces may be sorted and may include estimated and observed arrival times of various seismic waves.

TECHNOLOGY

GDS consists of a set of individual modules to

- Acquire earthquake information,
- Filter dissemination queues,
- Generate template-based message,
- Automatic and interactive bulletin dissemination through various communication channels.

New features:

- Redesigned Web interface,
- Dissemination summary prior to dissemination,
- Dissemination without events, e.g. felt reports,
- Content generation based on dissemination rule evaluation result,
- Stop of automatic dissemination after manual dissemination,
- Build-in support for nearest cities information.

GDS connects to QuakeLink for earthquake updates. Based on predefined criteria new earthquake information are filtered and forwarded to all matching queues. Based on configurable templates bulletins are created, stored in spool directories and sent by email, SMS, fax, Web or almost any other service to the subscribed recipients. Bulletins may contain figures created by GIS. Web interfaces allow configuration, interactive bulletin dissemination and history review. The Web interfaces ship with a user management supporting assignment of fine-grained privileges to users or groups and separation of configuration and dissemination. Any history and modification to the configuration is tracked and can be reviewed.

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