



EUROPEAN MARITIME SAFETY AGENCY
QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

CleanSeaNet – European Satellite Oil Spill Monitoring and Vessel Detection Service

Overview of CSN Web Portal

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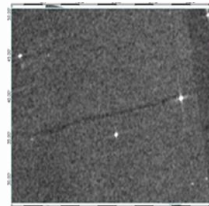
CleanSeaNet SAFEMED Info Day – Lisbon – November 2013



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CSN Web Portal

- **Integrated Interface for all CSN activities:** planning, allocation, feedback, image & spill/vessel data, ancillary data, product subscription, user configuration, forum, etc.
- **High configurability:** users can define
 - alert areas and alert levels
 - communication matrix,
 - details of report content
- **User Management:**
 - Coastal States can create users autonomously



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CSN Web Portal

<https://csndc.emsa.europa.eu/group/cleanseanet/homepage>



EMSA CleanSeaNet
 Welcome to CSNDC Public Community
 Welcome to CleanSeaNet 2nd generation


CleanSeaNet is the Near Real Time European satellite based **oil spill monitoring** and **vessel detection** service, set up and operated by the EMSA since April 2007. The service provides aggregated products on possible oil spill's, pollution alerts and related information to the operational maritime administrations within 30 min. after satellite acquisition to allow an effective use of the data for follow up activities. The information is visualised by a specific web application supplemented by a day-to-day operational support by the Agency. With vessel traffic information being available in CleanSeaNet, the service is able to detect and identify vessels that are discharging. CleanSeaNet is a recognised **OSG** service. Find more information on CleanSeaNet [page](#).

CleanSeaNet services
 A distributed network of CleanSeaNet services providers process and analyse images on a routine basis from **ENVISAT**, **RADARSAT 1 and 2** and in future from the **SENTINEL-1** satellite.
 Service timeliness and quality control is an incentive to guarantee best service. CleanSeaNet has the capacity to acquire image segments from 200 km long up to 1400 km with a nominal "Near Real Time" performance of 30 minutes for a 400 km long acquisition.
 Based on rules decided by the Member States, CleanSeaNet disseminates specific alerts to the national users; the alert level is defined for each spill by combining likelihood information, culprit information and impact information.
 When a recent or ongoing spill is detected with a potential source connected to it or in its vicinity, the relevant authorities in are informed immediately. CleanSeaNet combines the oil spill detections with vessel information from [SafeSeaNet](#) and backtracking models from national and regional centers to help identify the source of pollution.

The CleanSeaNet Data Centre
 The CleanSeaNet Data Centre (CSN-DC) is the core system to receive, manage, distribute and visualise the data products of the CleanSeaNet service: oil spill and vessel detection data, new satellite missions on an ad-hoc basis, Electronic Nautical Charts (ENC) and additional information layers - also provided by the user community.
 The CSN-DC provides a single user interface (GIS viewer)

- for web based image planning and allocation by the Member States,
- for receiving images and the analysis results.

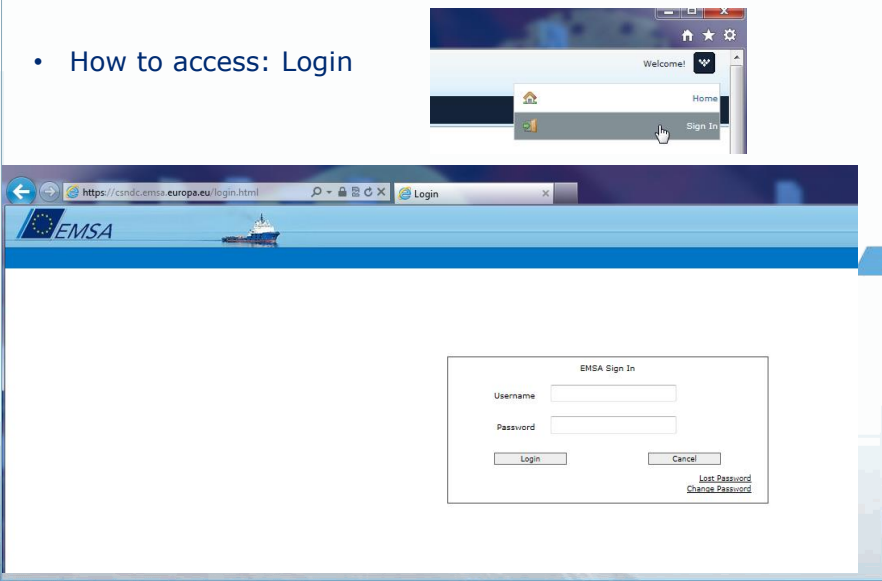
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CSN Web Portal

- How to access: Login



The screenshot shows a browser window with the URL <https://csndc.emsa.europa.eu/login.html>. The page displays the EMSA logo and a ship icon. A login form titled "EMSA Sign In" is shown, containing fields for "Username" and "Password", and buttons for "Login" and "Cancel". Below the "Cancel" button are links for "Lost Password" and "Change Password".

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CSN Web Portal

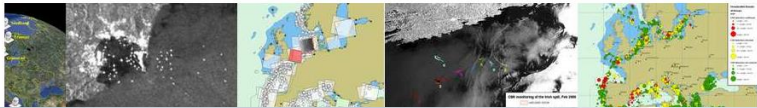
Components visible to the CS users are:


- GIS - Viewer (with Feedback provision)
- User Management
- Alerting component
- Planning component
- Communication component



Home | GIS Viewer | Planning | Alerting | Communication | User Management | Help | Release Notes

Welcome to CleanSeaNet 2nd generation





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CSN Web Portal

Entrance Points for a new user or when you have a problem are:

- User Guides
- Release Notes
- Communication Component

Help

Release Notes

GIS Viewer User Guide()

Planning User Guide()

Alerting User Guide()

Communication User Guide()

Online

Offline

PDF

Communication

User Management

Wiki

Calendar

Forum

Document Library

Release Notes


Release Note 1.4

Release Note 1.2

Release Note 1.1


CleanSeaNet Basic Training – Lisbon – October 2013

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CSN Web Portal




Home Search

[CSN-DC Release Notes 1.4.5](#)
[Display of SAR Derived Layers](#)
[Improved display of MyOcean layers](#)
[User Management improvements](#)

CSN-DC Release Notes 1.4.5
 This is the CleanSeaNet Data Centre Release 1.4.5.
 The following features and fixes have been added with respect to the release 1.4:
New Functionalities
User Management
 1. Integration into the Common User Management system of the Agency (Single-Sign-On). CleanSeaNet users with access to other EMSA Maritime Applications (provided they have also been already integrated), can now access all services using the same credentials. Usernames have been changed to comply with the common user naming convention.
GIS Viewer
 1. Display of SAR derived layers: wind and swell
Improvements
GIS Viewer
 1. Improved display of MyOcean layers
User Management
 1. User management functionality has been significantly improved
Bug fixing
 1. Alerting & GISViewer: problem of handling oil spill polygons with more than 500 vertices has been fixed.
 2. GISViewer: problem related to the incorrect display of information in the "Total oilspills" column of the GISViewer has been fixed. This problem was occurring for scenes acquired since middle October 2012, in the Portuguese and Spanish alert areas. The column "Total oilspills" in the GISViewer was incorrectly reporting N/A after the service, instead of reporting the detected number of spills. The problem has been solved and the information for the past acquisitions corrected.
 3. COM Calendar: capability of entering an event beyond 2012 has been added.
 4. COM Forum: bug related to the creation of new threads in the forum has been corrected.

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CSN Web Portal

The Communication component

Forum

- Exchange of information

Wiki

- Common Knowledge database

Document Library


- For sharing for example training/USG meetings material

Calendar

- For general CSN events

Entrance Points

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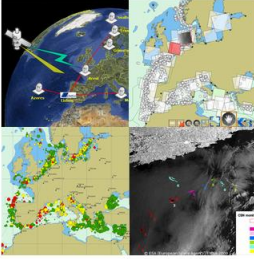
CSN Web Portal

The Wiki:

- FAQs

CLEANSEANET WIKI

Front Page



Welcome to the CleanSeaNet 2nd Generation


This is the Communication component

This component has been developed for providing a platform of information exchange among the CleanSeaNet community. We hope you find it useful for sharing your knowledge and experience on oil spill monitoring.

[Please have a look on the CSN FAQ](#)


NEW: Please have a look on CSN Known Problems

[Add Child Page](#) | [1 Attachments](#)



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CSN Web Portal



Home | GIS Viewer | Planning | Alerting | **Communication** | User Management

CLEANSEANET DOCUMENT LIBRARY

Folders | My Documents | Recent Documents | Mail

Folder

CleanSeaNet User Group Repository
This folder contains all documents related to CleanSeaNet User Group meetings
Subfolders: 10th CleanSeaNet User Group meeting, 9th CleanSeaNet User Group meeting


Manuals
Subfolders: CleanSeaNet 1st generation, CleanSeaNet 2nd generation

PRIVATE

Training Material
This folder will provide more training information, training materials etc.
Subfolders: Trainings in 2010


Showing 4 results.

Wiki
Calendar
Forum
Document Library



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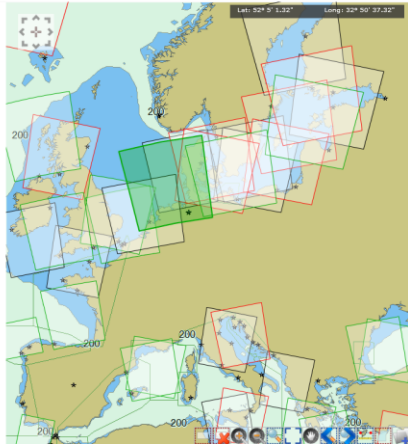
CSN Web Portal The GISViewer



Welcome Sonia Pelizzari

[Home](#) | [GIS Viewer](#) | [Planning](#) | [Alerting](#) | [Communication](#) | [Journaling](#) | [Financial](#) | [User Management](#) | [Help](#) | [Release Notes](#)

[Search](#) | [EO Scene](#) | [Oil Spill](#) | [Detected Ships](#) | [AIS](#) | [Standing Orders](#) | [Feedback](#) | [Alert Regions](#)



Satellite	Acquisition time	Total oilspills	Status
RadarSat-2 SA...	03-10-2012 17:34:43	0	Delivered
RadarSAT1-SAR	03-10-2012 16:45:55	0	Delivered
RadarSat-2 SA...	03-10-2012 13:54:26	0	Delivered
RadarSAT-2	03-10-2012 06:13:35	0	Delivered
RadarSat-2 SA...	03-10-2012 04:37:09	4	Delivered
RS1-SAR	02-10-2012 18:49:59	0	Delivered
RadarSAT-2	02-10-2012 18:08:43	0	Delivered
RadarSAT-2	02-10-2012 18:07:01	0	Delivered
RadarSAT-2	02-10-2012 18:05:18	0	Delivered
RadarSAT1	02-10-2012 17:15:02	0	Delivered
RadarSat-2 SA...	02-10-2012 16:31:40	6	Delivered
RadarSAT2-SAR	01-10-2012 05:26:06	0	Delivered

Search in selected scenes

Details of EO scene 0

Item identifier: 122594

Acquisition start: 02-OCT-2012 17:28:44

Satellite: RADARSAT-1-SAR1

Polarisation:

Total oilspills:

Coastal states:

Filename:

Orbit Number: 90

Satellite opera...:

Usable area %:

Acquisition stop: 02-OCT-2012 17:29:08

Sensor Mode:

Orbit: A

Orbit type:


Feedback:

Frame id: g

Service provider:

Coverage Com...:

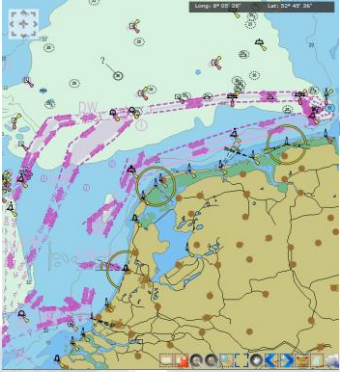
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CSN Web Portal


- Makes available the service results: oil spills, vessels, SAR wind and, as background, the Electronic Nautical Charts and DEMIS topography layers
- Advanced Search capabilities: Possibility to search by using for e.g.
 - Geographical criteria
 - Time windows
 - Type of image
- Possible to search for images, oil spills, vessels, feedbacks.



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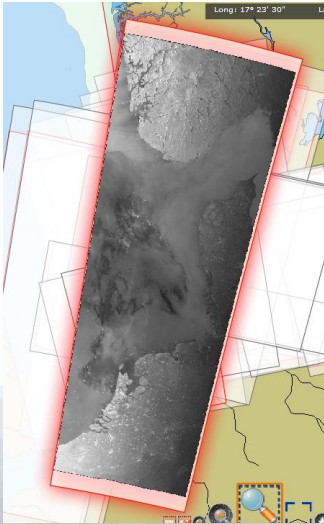
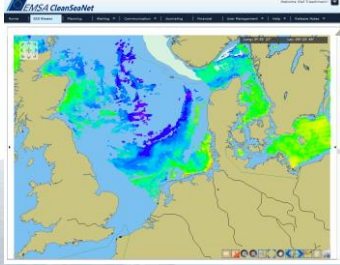
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CSN Web Portal

Main features

- Provides different means of data distribution: ftp transfer, download of high resolution SAR image and oil polygon
- Integration of Meteo Oceanographic data from the MyOcean data provider: Chlorophyll, SST, Sea ice, Currents

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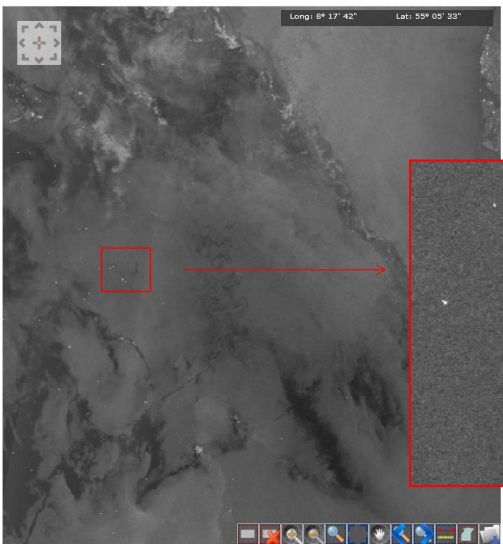
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CSN Web Portal

Main features

- Implements algorithms to improve image visualization (normalization + speckle filtering)
- And to correct the displacement of SAR images

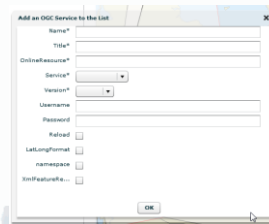
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CSN Web Portal

The GISViewer also gives access to:

- AIS from SafeSeaNet
- Alert areas
- Updated layers on Temperature, Chlorophyll, Sea currents, Ice (Baltic) from *MyOcean*
- Layers from national/regional WMS (Web Map Service) servers on request

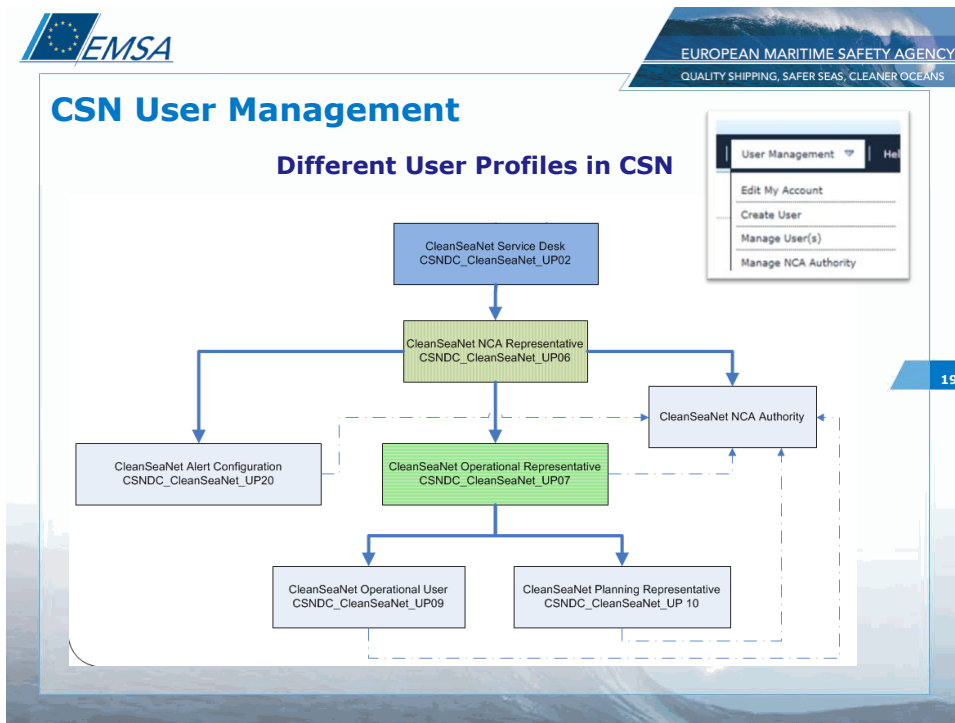


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CSN User Management

- EMSA has set up a common user management system for all maritime applications together with a single sign-on capability
- CleanSeaNet (CSN) is part of the common system since release 1.4.5 (January 2013) of the CSN Data Centre (CSN-DC)
- Users in the coastal States may have one or several roles among the following ones:
 - Roles for the management of users
 - Roles for the operational use of the system
 - National Competent Authorities (NCA) -> are not users and cannot use the system

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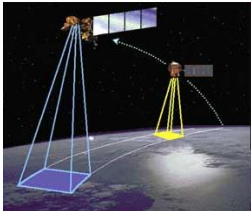
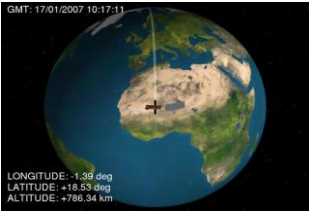



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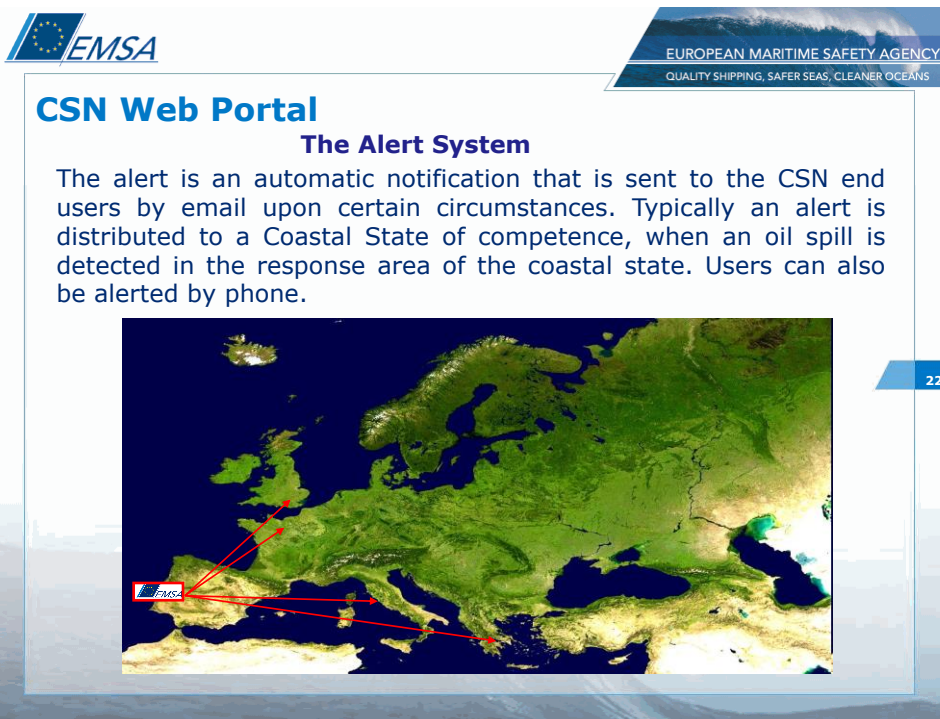
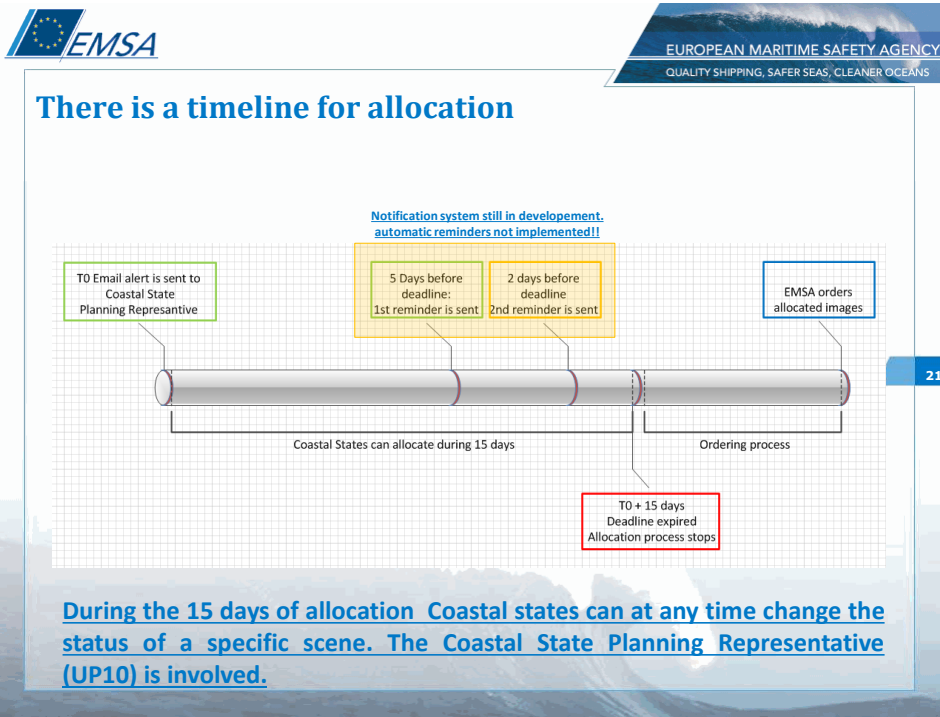
The Product ORDERing tool (POR)

- Used for defining the number of EO scenes that will be used into the CSN-DC for the next tasking period.

- The POR is the starting point of all CSN-DC activities
- EMSA uses the POR to communicate with satellite owners and service providers
- Coastal States provide the coverage requirements and the image allocations

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CSN Web Portal

The Alerting

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Alert Rules

Alert Matrix

Communication Matrix

Print Parameters

Users Communication Matrix

Alert Regions Visibility

↑ configure alert levels

↑ configure who receives alert emails and phone calls

↑ configure report content

↑ lists details of all users of the country

↑ configure which coastal state can visualize your alert areas

↑ configure alert rules

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Cyprus
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