

EO Pillar

Short description	T7.7 EO Pillar
Type of community	Thematic Services
Community contact	Christian Briese
Interviewer	Enol Fernandez del Castillo
Date of interview	2018. 4. 30
Meetings	
Supporters	

User stories



Instruction

Requirements are based on a user story, which is an informal, natural language description of one or more features of a software system. User stories are often written from the perspective of an end user or user of a system. Depending on the community, user stories may be written by various stakeholders including clients, users, managers or development team members. They facilitate sensemaking and communication, that is, they help software teams organize their understanding of the system and its context. Please do not confuse user story with system requirements. A user story is an informal description of a feature; a requirement is a formal description of need (See section later).

User stories may follow one of several formats or templates. The most common would be:

"As a <role>, I want <capability> so that <receive benefit>"

"In order to <receive benefit> as a <role>, I want <goal/desire>"


"As <persona>, I want <what?> so that <why?>" where a persona is a fictional stakeholder (e.g. user). A persona may include a name, picture; characteristics, behaviours, attitudes, and a goal which the product should help them achieve.

Example:

"As provider of the Climate gateway I want to empower researchers from academia to interact with datasets stored in the Climate Catalogue, and bring their own applications to analyse this data on remote cloud servers offered via EGI."

No.	User stories
US1	As a researcher interested in EO data, I want to be able to access and analyse those data with VMs or using HPC-like facility
US2	As a researcher interested in EO data, I want to be able to explore EO-data produced in EOSC-hub in an interactive way
US3	As a provider of the Sentinel Playground, I want to be able to integrate OGC compliant WS from EOSC-hub into the service
US4	As a provider of EO Pillar TS, I want to be able to deploy the service components into VMs hosted at the EO-data providers
US5	As a non-expert user, I want to do simple analysis on map (e.g. vegetation growth in the last year) by zooming and panning to inspect areas of interest.
US6	As a GIS-experienced user, I want to import EO-data from into a GIS platform (e.g. QGIS)
US7	As a expert user, I want to perform my own analysis using python/R by calling remote OGC WS facilities
US8	As a provider of EO Pillar TS, I want to offer my services to existing ESA SSO users
US9	As a GeoHazards expert, I want to interactively find relevant data for a given area of interest and time period, and invoke processing from a predefined set of functions over that area
US10	As a GeoHazards expert, I want to download via OGC APIs the data of interest
US11	As a GeoHazards expert, I want to periodically process data from areas of interest and have the results available

Use cases

 **Instruction**


A use case is a list of actions or event steps typically defining the interactions between a role (known in the Unified Modeling Language as an actor) and a system to achieve a goal.

Include in this section any diagrams that could facilitate the understanding of the use cases and their relationships.




Step	Description of action	Dependency on 3rd party services (EOSC-hub or other)
UC1	Discovery of available EO data	Browsable/Searchable EO Data catalogue with pointers to the providers
UC2	Execution of analysis of EO data	Cloud Compute/EGI HTC
UC3	Provide EO data to the compute environment with POSIX interface	Cloud Compute/DataHub
UC4	Discovery of OGC WS compliant services	?
UC5	Use OGC WS services with federated identities	EOSC-hub AAI
UC6	Login into the services with ESA SSO identities	ESA SSO

Requirements

Technical Requirements

Requirement number	Requirement title	Link to Requirement JIRA ticket	Source Use Case
Example	EOSC-hub to provide an FTS data transfer service	<div> EOSCWP10-21 - Jira</div>	UC1
RQ1			

Requirement ID	EOSC-hub service	GAP (Yes/No) + description	Requirement description	Source Use Case	Related tickets
Example	EOSC-hub AAI	Yes: EOSC-hub AAI doesn't support the Marine IdP	EOSC-hub AAI should accept Marine IDs	UC1	

RQ1	?	Yes:	Browsable catalogue of EO data that allows to discover the providers hosting the relevant data for the user	UC1	 E OSCW P10-3 - Jira .
RQ2	Cloud Compute	No	Create VMs on providers hosting the data	UC2	
RQ3	Cloud Compute /DataHub	No: DataHub can provide that functionality	Provide data with a POSIX interface on VMs	UC3	
RQ4	?	Yes: there is no catalogue of OGC WS endpoints in the EOSC-hub	Discovery of OGC WS compliant services	UC4	 E OSCW P10-5 - Jira .
RQ5	EOSC-hub AAI	No: OpenID Connect allows non-browser access to services	Use OGC WS services with EOSC-hub identities	UC5	
RQ6	EOSC-hub AAI	Yes: ESOC-hub AAI doesn't support ESA SSO	EOSC-hub AAI should accept ESA SSO ids	UC6	
RQ7	EOSC-hub Accounting	Yes	Tracking the resource usage and monitoring the data via EOSC-hub accounting tool	?	 E OSCW P10-70 - Jira .

Capacity Requirements

EOSC-hub services	Amount of requested resources	Time period