

# DODAS

Short description	<a href="#">T7.2 DODAS</a>
Type of community	Thematic Services
Community contact	<a href="#">Daniele Spiga</a>
Interviewer	<a href="#">Marica Antonacci</a>
Date of interview	
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 DODAS user I want a service that simplifies the process of provisioning, creating, managing and accessing a pool of heterogeneous computing resources, including private and public clouds.
US2	As a DODAS administrator, I want to be able to monitor DODAS services (DODAS Core services)
US3	As a DODAS administrator I want to be able to monitor processes and services running on the dodas clusters (check status resources consumption etc.)
US4	As a DODAS end user (e.g. physicist) I want to transparently access my remote data
US5	As a DODAS end user (e.g. physicist) I want to temporary cache input and output data from dodas cluster
US6	As community adopting DODAS, I want to be able to globally share libraries and software (e.g. runtime environment) more in general.
US7	As user of DODAS I want to be able to move my sandboxes (input/output) through dropbox like solution
US8	As a DODAS user, I want to be able to access all my portals using the same credentials, including authentication through the EGI CheckIn when desired.

## 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	The DODAS admin requests the automated deployment of a DODAS cluster	TOSCA template to be submitted to the PaaS Orchestrator
UC2	The DODAS admin checks the status of the DODAS core services	Needs integration with some monitoring service. Is there anything already available in EOSC-hub?
UC3	DODAS Users access remote stored data from the DODAS cluster	Cluster configuration shall support OneData/XRootD integration. XRootD is maintained externally to EOSC-hub
UC4	User jobs running on DODAS clusters store temporary data on local cluster	
UC5	User jobs running on DODAS clusters access software from specific file system path	
UC6	User jobs require to move input and output sandbox without the needs of moving data through storages (manually)	
UC7	DODAS admin and users authenticate against a single AAI system	INDIGO-IAM
UC8	Resource providers authenticate and authorize DODAS requests with INDIGO-IAM tokens	Integration through AAI EOSC-hub solutions
UC9	Accounting data are gathered from the resource providers	

## Requirements

### Technical Requirements

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

RQ1	INDIGO PaaS	No	Automated deployment of the DODAS cluster on top of heterogeneous cloud environments through TOSCA orchestration	UC1	 EO SC WP 10- 37 - Jira 
RQ2	?	Yes: check if EOSC-hub provides a monitoring service for collecting monitoring data	Monitoring information gathering	UC2	 EO SC WP 10- 34 - Jira 
RQ3	OneData /XRootD	No	User data remote access	UC3	
RQ4	OneData /XRootD	No	Store temporary data locally	UC4	
RQ5	CVMFS (client and stratum 0)	No	Usage of specific global file system for software distribution	UC5	
RQ6	OneData	No	Job input and output sandbox data movement	UC6	
RQ7	INDIGO-IAM	No	Provide authN/authZ for DODAS users	UC7	
RQ8	ESACO, AAI EOSC-hub??	ESACO is being successfully used by the providers of the enabling facility	Resource providers integration with INDIGO-IAM	UC8	 EO SC WP 10- 36 - Jira 

RQ9	APEL?	Yes: how to extract accounting data from heterogeneous providers (including public clouds)	Accounting data gathering	UC9	<div> EO SC WP 10- 35 - Jira .</div>
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Capacity Requirements

EOSC-hub services	Amount of requested resources	Time period