

OSSR

ESA Open Source Software Repository

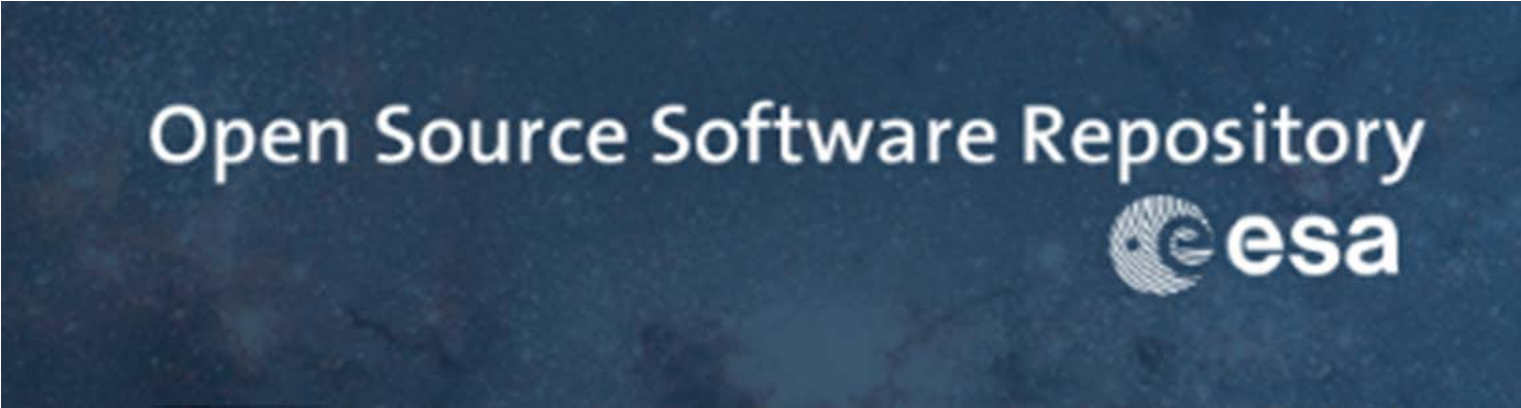
October 2014

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OSSR:

- Objectives
- Scope
- Overview
- Access
- Process
- Status/Way forward

A banner with a dark blue, textured background. The text 'Open Source Software Repository' is written in a large, white, sans-serif font. Below the text, the ESA logo is displayed in white.

Open Source Software Repository

The ESA logo, featuring a stylized 'e' inside a circle followed by the letters 'esa'.

[ESAIPC(2009)88] Establish an Open Source Software **Repository** (OSSR), to **promote reuse** of (open source) software and provide all parties involved in European Space software development (in particular SMEs) **access to results** of previous investments

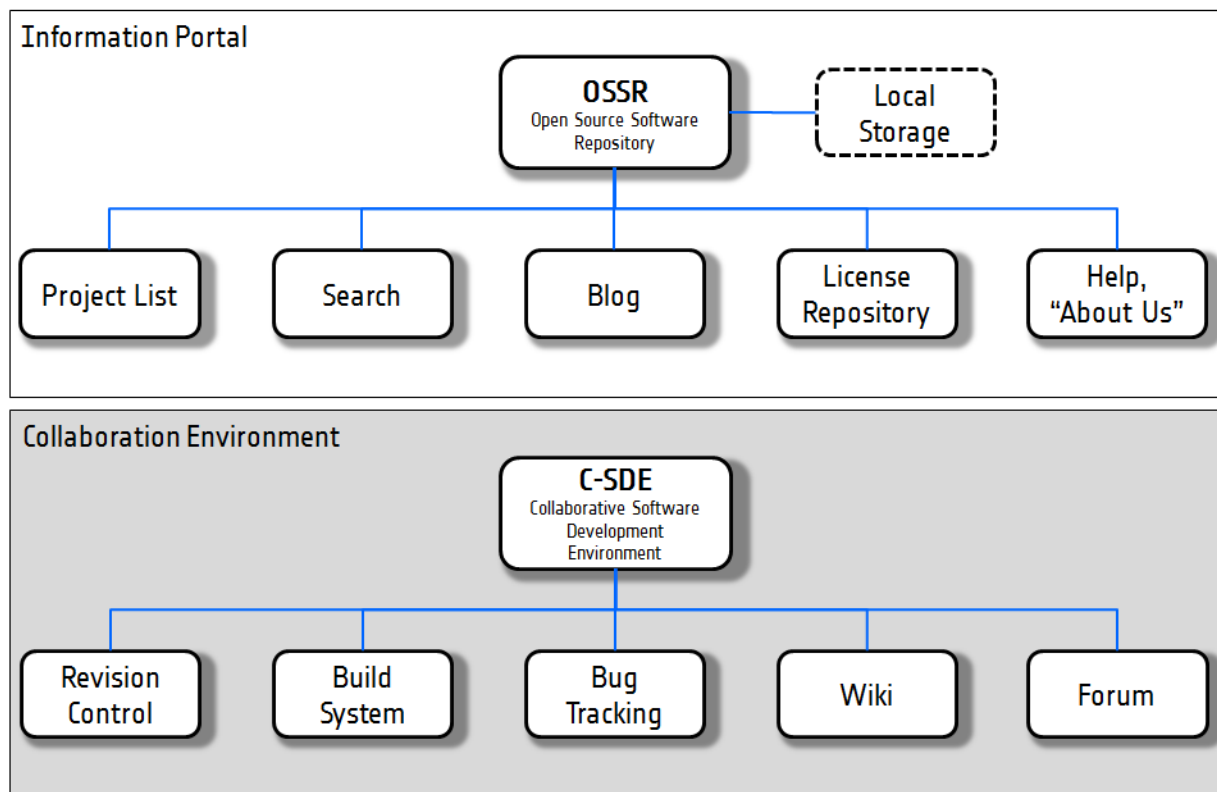
Objective of implementing a web portal, hosting the OSSR:

- Guide European Space Industry in identifying available OSS
- Allow Industry to make their OSS products and associated services known to the space community and beyond
- Help European industry in joining ongoing OSS collective development projects;
- Provide visibility on licensing schemes and legal aspects on European products
- Support building up of collaborative OSS initiatives


Information Portal: OSSR (Open Source Software Repository)

versus

Collaboration: C-SDE (Collaborative Software Development Environment)



Open Source Software Repository



Project

ABOUT US | DEMO ESA

HOME

ABOUT US

TEST-TEST

BLOG

CONTACT

LOG IN

REGISTER

LATEST PROJECTS

→ NEW PORJECT 234

a,agleufaf

READ MORE →

→ ZXC

zxc project, beware

READ MORE →

Updated on: 10/24/2014

Created on: 10/24/2014

License: Apache License, Version 2.0

Project tags: tAg5

Updated on: 09/04/2014

Created on: 09/04/2014

License: License TEST Mutttnik totality az...

Project tags: asd project tag

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ABOUT US

TEST-TEST

Open Source Software Repository



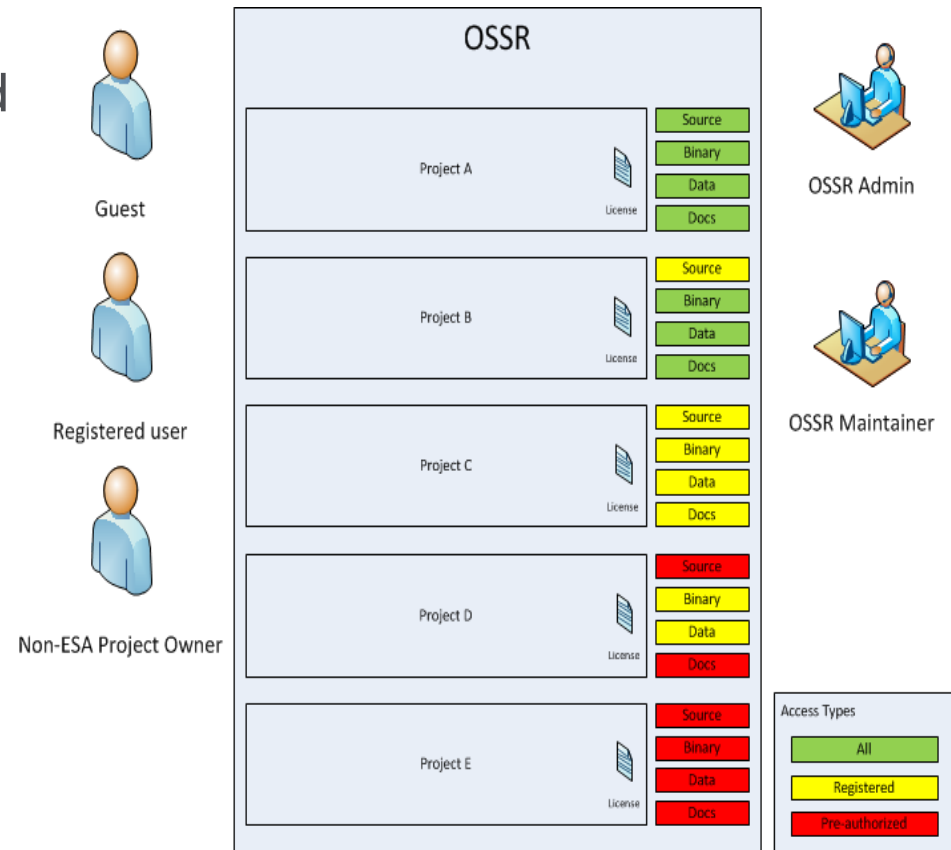
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Front-end:

- Users: Guest and Registered (different access types)
- ESA Project Owners
- Non-ESA Project Owners

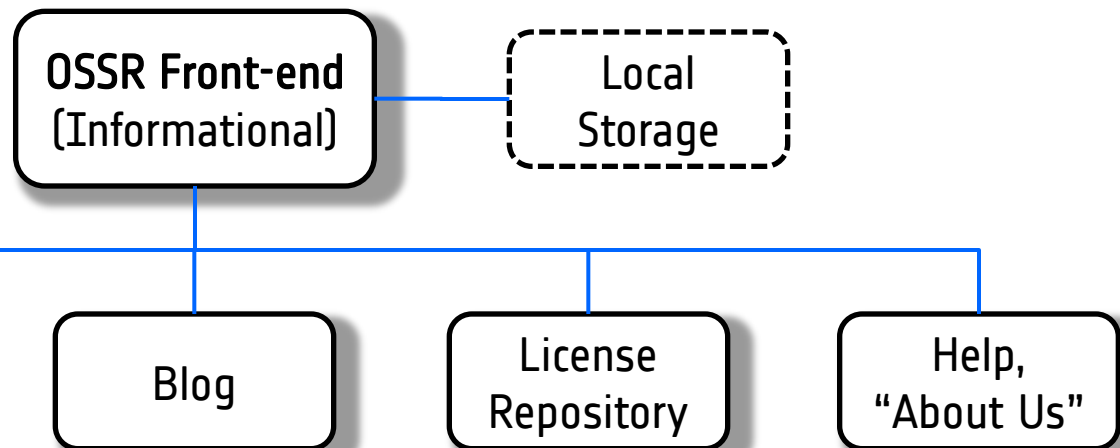
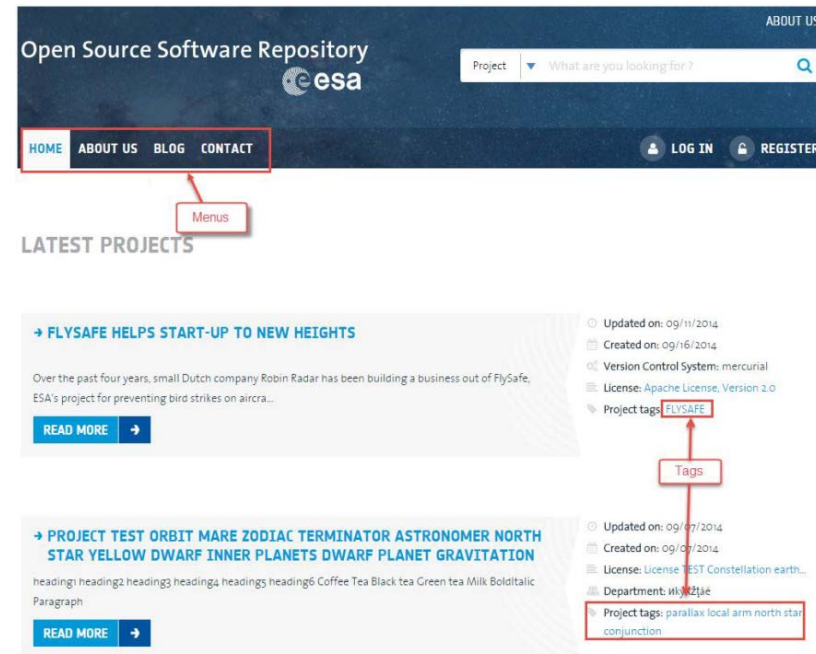
Back-end:

- Administrator
- Maintainer



Informational repository containing:

- List of projects
- Search functions, tags
- Blog
- License repository
- Help, “about us” etc.




Project List: main element of the OSSR portal.

Every project listed on the OSSR will contain:

- Name, Description and Read More link
- Creation and modification date
- Version Control System
- License information
- Owner
- Links homepage and download (code, binary, ...)
- Project tags


 **Updated on:** 07/16/2014

 **Created on:** 07/28/2014

 **Version Control System:** mercurial

 **License:** Apache License, Version 2.0

 **Owner:** ESA


 **Links:** [Homepage](#)
[Download](#)

→ OPENSPIFE

The Scheduling and Planning Interface for Exploration (SPIFe) is an integrated planning and scheduling toolkit based on hundreds of hours of expert observation,...

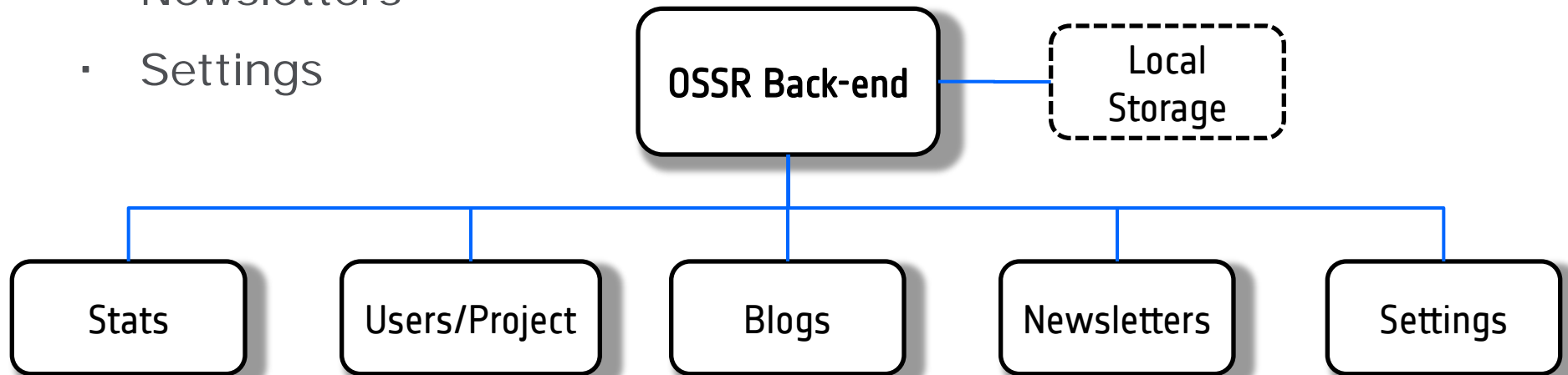
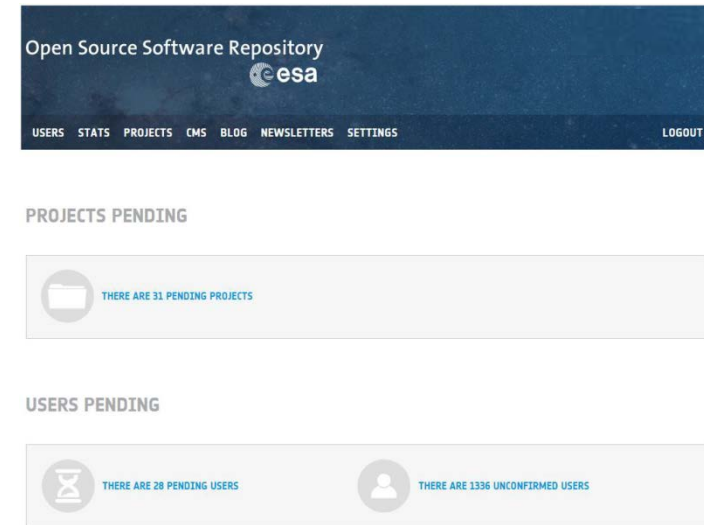
[READ MORE](#)



 **Project tags:** [analysis](#) [data collection](#) [data processing](#) [data quality](#) [gsfc](#) [materials](#) [engineering](#) [matlab](#) [msfc](#) [ontology](#) [orbit planning](#) [remote sensing](#) [scheduling](#) [toolkit](#) [web services](#)

Backend contains number of functions:

- Statistics on user/projects/
- Users data
- Projects data
- CMS (Content Management System)
- Blogs maintenance
- Newsletters
- Settings



Owner: a project belongs either to

- ESA (most cases)
- Different entity, represented by registered/authorised named user

License: a project has one or more licenses assigned to it

- ESA Licensing Board responsible for creation and maintenance of the licenses

Access type: License defines default project access level

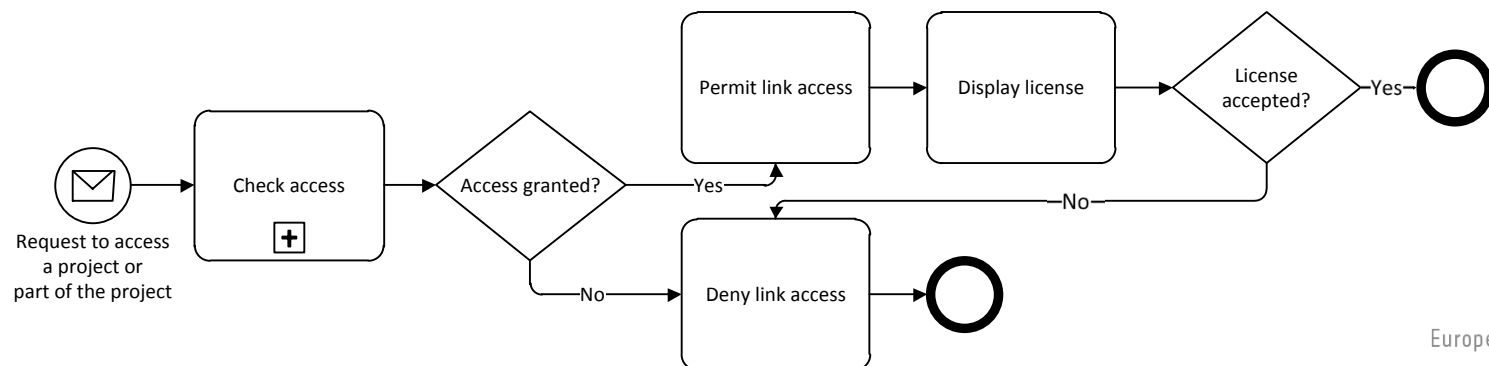
- Guest access: request registration, download permitted for public data only
- Registered access: registration process, download permitted after log-in
- Authorised access: authorisation process per project/information, download permitted after prior authorization

Data access links:

- Links to different project-related files (source code, data, binary, etc.) may have a different access level (by default – the same as the project itself).

OSSR (Business) Process model requiring manual intervention:

- Registration of a new named user
- Checking access
- Setting-up a new project
- Setting up license for a new external project
- Approval of external project updates
- Approval of blog posts
- Processing (link) access request



Different phases:

- Phase 1: Definition : **completed**
 - Task1: State of State of the art” analysis and demonstration
 - Task 2: User, legal and Security Requirements and workshop
 - Task 3: System definition and proof-of-concept prototype
- Phase 2: Implementation: **completed**
 - Preliminary acceptance completed (1035 tests passed)
- Phase 3: Operations & maintenance: **in progress**
 - Security checks (threads & vulnerability analysis)
 - Pilot projects
 - Go live !! End of 2014



Thank you for attention