



# EGI-InSPIRE

## STAGED ROLLOUT WORKFLOW TECHNICAL IMPLEMENTATION

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### Abstract

This document updates Milestone MS402. It gives the technical description of the process of Staged rollout into the EGI production infrastructure.



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## II. DELIVERY SLIP

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## III. DOCUMENT LOG

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3			

## IV. APPLICATION AREA

This document is a formal deliverable for the European Commission, applicable to all members of the EGI-InSPIRE project, beneficiaries and Joint Research Unit members, as well as its collaborating projects.

## V. DOCUMENT AMENDMENT PROCEDURE

Amendments, comments and suggestions should be sent to the authors. The procedures documented in the EGI-InSPIRE “Document Management Procedure” will be followed:

<https://wiki.egi.eu/wiki/Procedures>

## VI. TERMINOLOGY

A complete project glossary is provided at the following page: <http://www.egi.eu/about/glossary/>.



## VII. PROJECT SUMMARY

To support science and innovation, a lasting operational model for e-Science is needed – both for coordinating the infrastructure and for delivering integrated services that cross national borders.

The EGI-InSPIRE project will support the transition from a project-based system to a sustainable pan-European e-Infrastructure, by supporting ‘grids’ of high-performance computing (HPC) and high-throughput computing (HTC) resources. EGI-InSPIRE will also be ideally placed to integrate new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, to benefit user communities within the European Research Area.

EGI-InSPIRE will collect user requirements and provide support for the current and potential new user communities, for example within the ESFRI projects. Additional support will also be given to the current heavy users of the infrastructure, such as high energy physics, computational chemistry and life sciences, as they move their critical services and tools from a centralised support model to one driven by their own individual communities.

The objectives of the project are:

1. The continued operation and expansion of today’s production infrastructure by transitioning to a governance model and operational infrastructure that can be increasingly sustained outside of specific project funding.
2. The continued support of researchers within Europe and their international collaborators that are using the current production infrastructure.
3. The support for current heavy users of the infrastructure in earth science, astronomy and astrophysics, fusion, computational chemistry and materials science technology, life sciences and high energy physics as they move to sustainable support models for their own communities.
4. Interfaces that expand access to new user communities including new potential heavy users of the infrastructure from the ESFRI projects.
5. Mechanisms to integrate existing infrastructure providers in Europe and around the world into the production infrastructure, so as to provide transparent access to all authorised users.
6. Establish processes and procedures to allow the integration of new DCI technologies (e.g. clouds, volunteer desktop grids) and heterogeneous resources (e.g. HTC and HPC) into a seamless production infrastructure as they mature and demonstrate value to the EGI community.

The EGI community is a federation of independent national and community resource providers, whose resources support specific research communities and international collaborators both within Europe and worldwide. EGI.eu, coordinator of EGI-InSPIRE, brings together partner institutions established within the community to provide a set of essential human and technical services that enable secure integrated access to distributed resources on behalf of the community.



The production infrastructure supports Virtual Research Communities (VRCs) – structured international user communities – that are grouped into specific research domains. VRCs are formally represented within EGI at both a technical and strategic level.

### **VIII. EXECUTIVE SUMMARY**

The present document gives the technical description of the SW rollout workflow into the EGI production infrastructure. It is an evolution from the milestone MS402.

This document is of special interest to EGI SA2, to the SW rollout managers, to the Early Adopters of new versions of the SW and in general to EGI SA1.

The process describe herein is part of the EGI TSA1.3 subtask.



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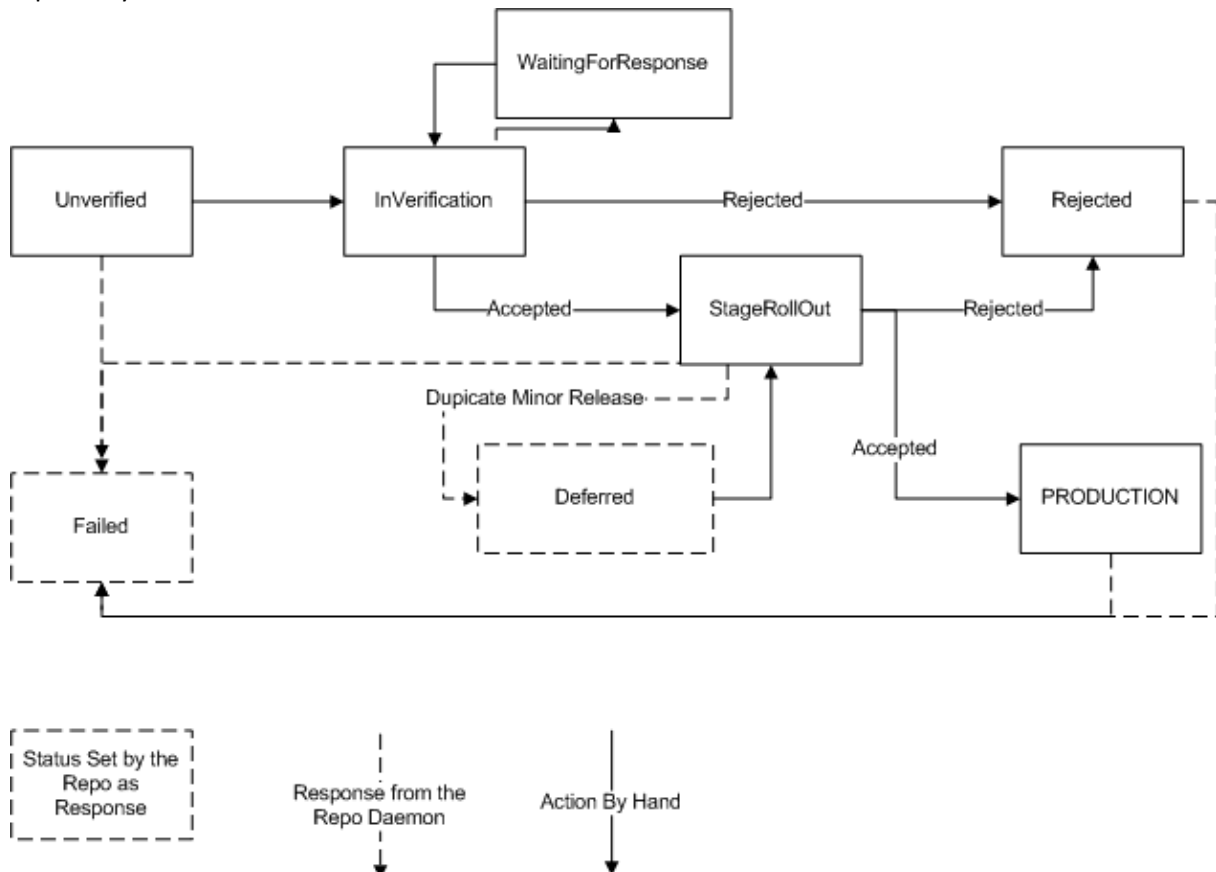
## 1 INTRODUCTION

This document updates part of the MS402, it describes the Staged Rollout phase of the whole EGI SW release process. The following workflow starts when a RT ticket in the “sw-rel” queue changes it’s status to “staged rollout”.

## 2 TECHNICAL IMPLEMENTATION AND WORKFLOW

The SW release workflow has been described first in MS402, and progressed into the description given in the NSRW wiki: [https://wiki.egi.eu/wiki/NSRW\\_IMPLEMENTATION\\_RT](https://wiki.egi.eu/wiki/NSRW_IMPLEMENTATION_RT). The present document describes the part of the workflow corresponding to the “Staged Rollout” phase.

The following figure shows the high level workflow of the SW release process implemented in the EGI repository transitions:



The staged rollout start when the state of the RT ticket in the queue “sw-rel” changes from “**InVerification**” to “**StageRollOut**”, this means that the SW component as passed the verification process. It is assumed that the staged rollout repository is fixed for any given major release of any SW, this is publicly available in the repository and EGI wiki for Early Adopters. This state change triggers the following actions:

1. The SW packages are moved from the “**InVerification**” repository to the “**StageRollOut**” repository.
2. The “sw-rel” ticket creates a new child ticket in the “staged-rollout” queue.
  - a. The ownership of the sw-rel ticket is changed to the SSO group “sw-rel-sr”.
3. The staged rollout managers “staged-rollout” SSO group is notified when the child ticket in queue “staged-rollout” is created.
  - a. The “staged-rollout” ticket should contain the links to:
    - i. Release notes, contains information about install/upgrade and configuration.
    - ii. Bugs or issues fixed.

- iii. Documentation.
  - b. The status of the ticket is “**new**”.
4. The queue “staged-rollout” has a **custom field (dropped down)** where the staged rollout managers select the EA teams to assign the staged rollout test.
  - a. The status of the ticket is changed to “**open**”.
  - b. Each EA team has to acknowledge the reception of the notification within 1 working day. Either by replying to the mail sent by the RT or directly in the ticket with:
    - i. **<accept|reject> <NGI>-<Site-name>**
  - c. The staged rollout manager will check the ticket and if there are no EAs accepting the staged rollout test, it will pool the “early-adopters-XXX.mailman.egi.eu” mailing lists, and other (s)he see’s fit to get other EA sites.
5. The EA team has the option to put the service node into downtime in the GOCDDB, special “beta” tag. This tag may be set only during the staged rollout phase, if/when the component is release into production, this tag (or downtime), should be removed from the gocdb.
6. The EA teams do the staged rollout: install/upgrade, configure, and some tests as they see fit.
  - a. If the EA finds problems or issues, either they are clarified within the ticket by the staged rollout managers and other EA teams, **OR**, a GGUS ticket should be opened.
  - b. If a GGUS ticket is opened, this ticket should be assigned to the DMSU support unit, which will then routed it to the technology providers as they see fit.
  - c. A link to the GGUS ticket is created in the staged rollout ticket.
7. The service should ideally be exposed into production load/environment and users. This period may last between 5 to 7 days, but may be extended depending on the cases.
8. Each EA team should fill the “staged rollout” templates after the last point, and **attach** it to the “staged-rollout” ticket:
  - a. The name of the file should be:
    - i. **ea-<NGI>-<Site-name>-<MW stack>-<component>-<version>.EXT**  
(doc, docx, odt)
9. The staged rollout managers:
  - a. Collect all reports and may produce a summary report.
  - b. Create a document in the EGI Doc server with a given ID, which will contain all reports for the staged rollout of that component, as well as the summary report.
  - c. Insert a link to the Dec server ID of the reports.
  - d. Write the **outcome <ACCEPT|REJECT>** in a **custom field**.
  - e. Set the ticket status to “**resolved**”.
10. When the staged rollout child ticket is set to “resolved” the parent ticket is notified, and it should get the **outcome** and the **doc server id** of the reports.

For the staged rollout, the following is used:

<https://rt.egi.eu/rt/index.html>

Queue name: “**staged-rollout**”

Report templates





Each Early Adopter has to fill a report, from the template:

<https://documents.egi.eu/public/ShowDocument?docid=254>

The EA team names are SSO groups containing the members of each team:

**ea-<NGI>-<Site-name>**

The **custom fields** needed in the “staged-rollout” queue are:

- Drops down box containing all EA teams, on the EGI SSO: possibility to select several teams, the button “Save Changes” notifies those teams and they will be added to the “AdminCC” field.
- Outcome of the staged rollout, drop down box with: **<ACCEPT|REJECT>** .

The title of the ticket is of the form:

**“Staged Rollout <SW stack-MajorVersion> <COMPONENT> <VERSION> <OS> <ARCH>”**

Examples:

- “Staged Rollout CA 1.38”
- “Staged Rollout EMI-1.0 SE-DPM\_mysql 1.8.0-1 SL5 x86\_64”

Two people per SW stack should ideally compose the staged rollout managers group:

- Glite
- ARC
- UNICORE
- Globus
- Operational Tools

The name of the file should be:

Filename: **ea-<NGI>-<Site-name>-<MW stack>-<component>-<version>**.doc(odt)

The “staged rollout manager” will provide a summary and the name of the file is:

Filename of summary: **summary-<MW stack>-<component>-<version>**.doc(odt)

All reports and the summary will be in: <https://documents.egi.eu> with a given ID, that will be referenced in the respective rt ticket. The description in the document database should have the following naming convention: **“Staged rollout <MW stack> <component> <version>”**



### 3 REFERENCES

R 1	
R 2	
R 3	
R 4	
R 5	