



Enabling Grids for E-science

MSA3.4.1

“The process document”

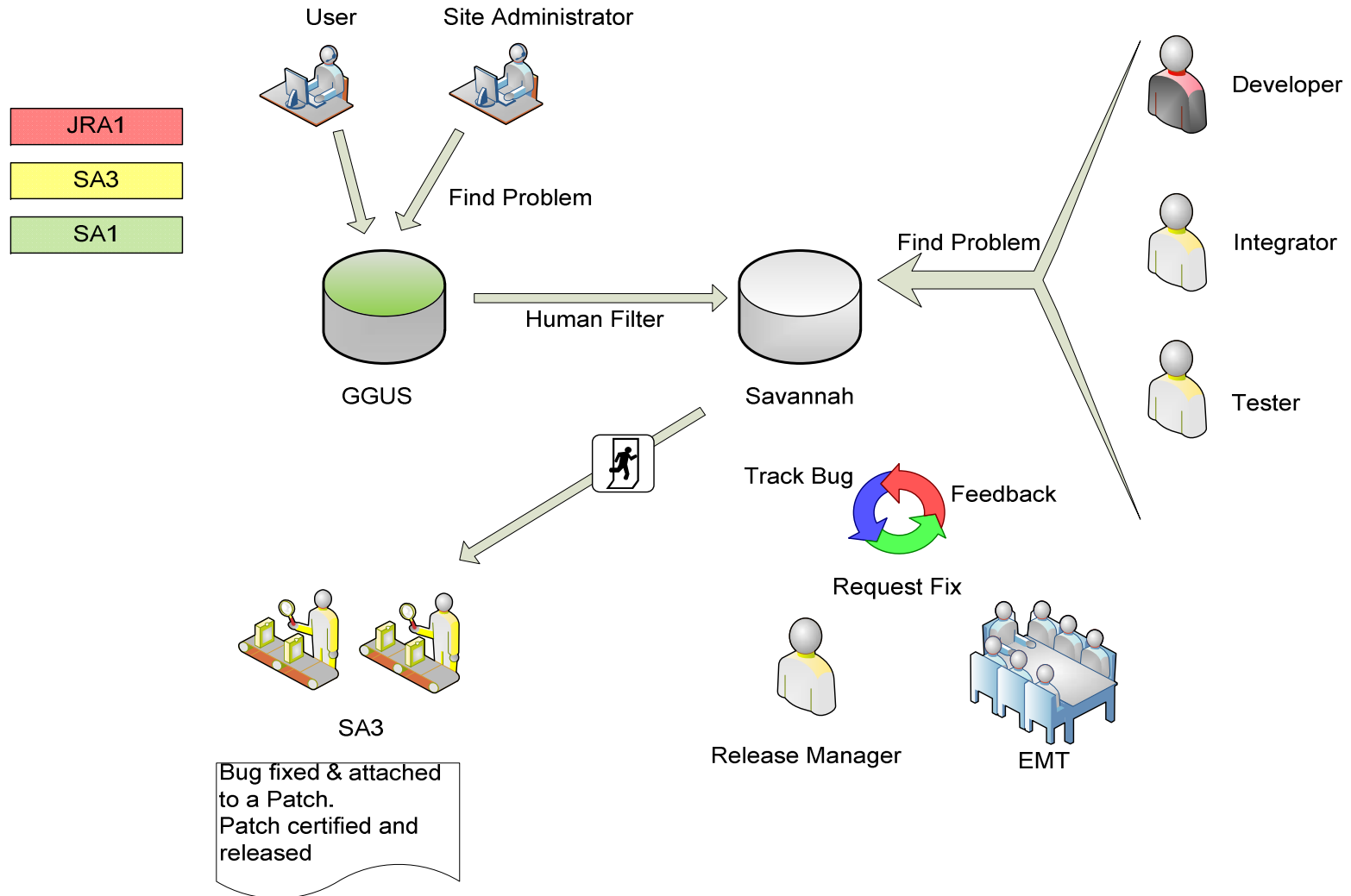
Oliver Keeble

SA3 CERN

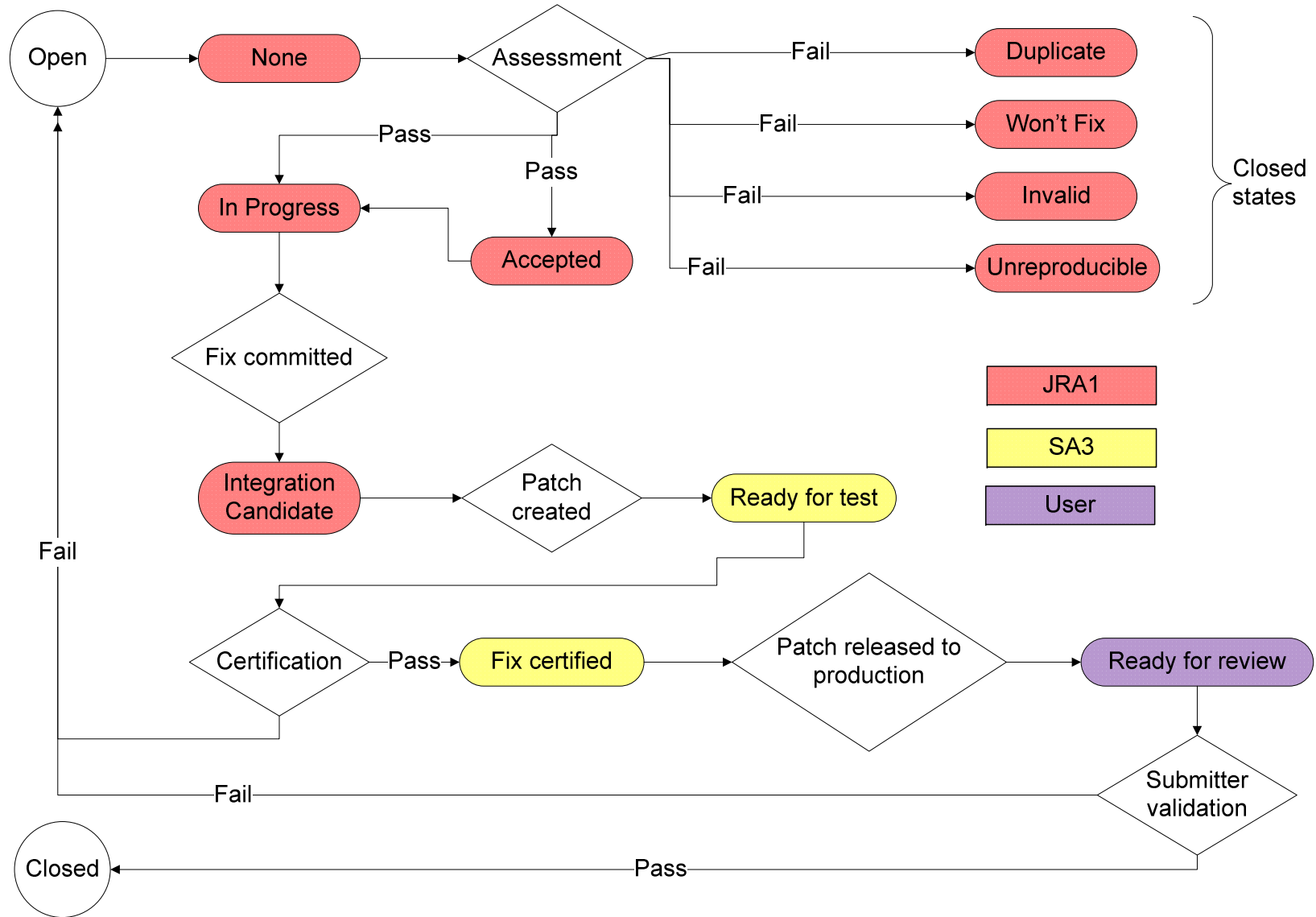
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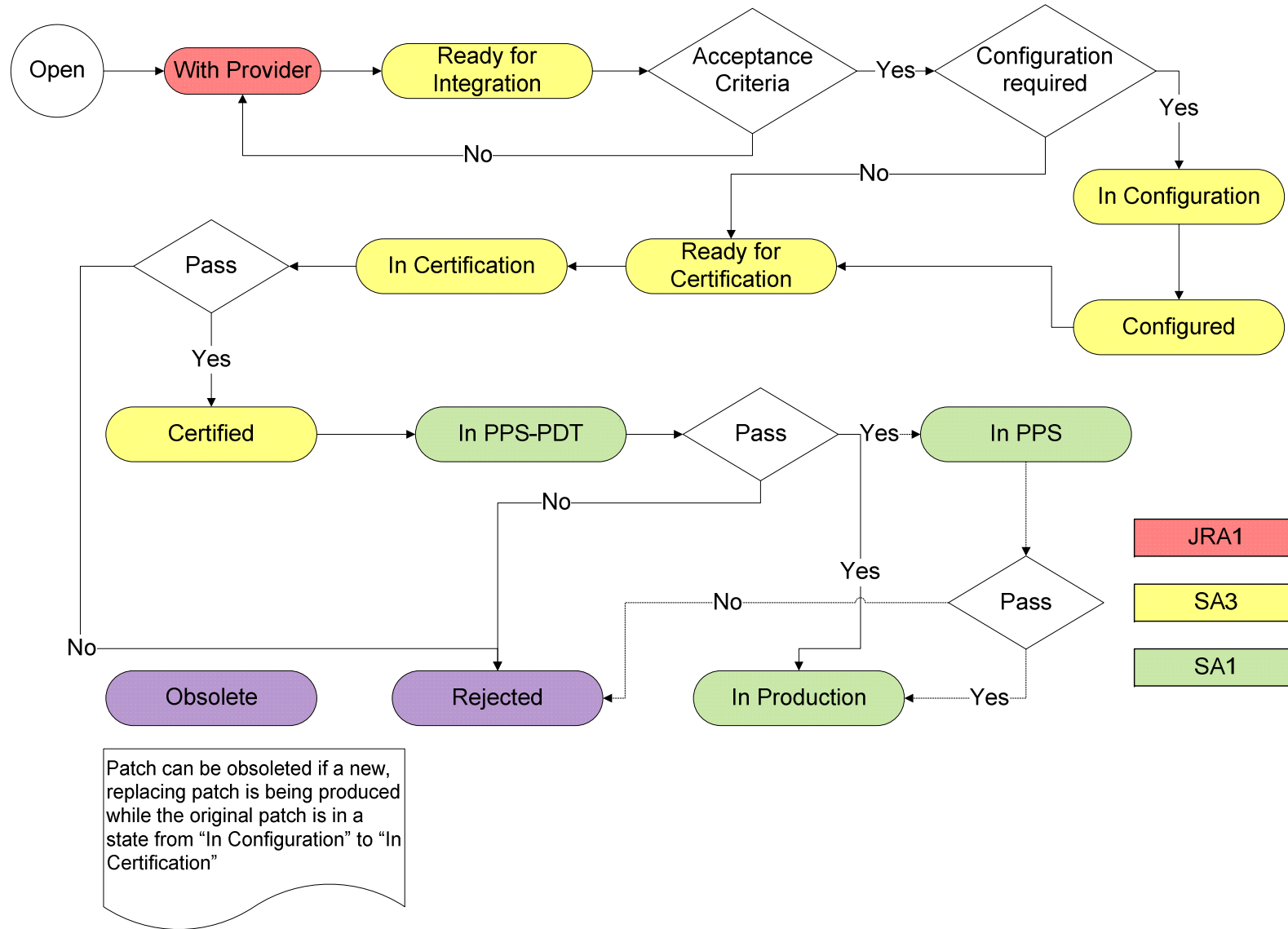


- Around 50% of patches did not reach production
- Certification process is expensive (several actors, communication needs)
- Process suffered from delays where patches remained in “waiting” states awaiting a release window
- Process is not able to roll back changes from production
- Consolidation of release documentation, integration of documentation checks into the release process
- Having a bug fix to be validated by the original submitter before it can be closed led to a large number of open bugs in final state “Ready for Review”
- The JRA1/SA3 handover could get messy



•Feature requests are valid “bugs”.





- JRA1
- SA3
- SA1

- **Checks that can be done automatically:**
 - ETICS configuration
 - Correct rpm list corresponding to the ETICS configuration, rpms exist in ETICS repository
 - Affected metapackages
 - Mandatory Savannah fields are not empty
 - Only well defined metapackage names appear in the metapackage fields
 - Deployment test (prototype available in ETICS): affected production node types can be updated with the rpms

- **Minimal required documentation**

- Service Reference Cards

- <https://twiki.cern.ch/twiki/bin/view/EGEE/ServiceReferenceCards>

- Functional description of the service

- User documentation to allow testers to start

- List of “sub services” and their role

- List of processes that are expected to run

- A description on how state information is managed

- A statement on whether the state be rebuilt from other sources

- Description of how to follow audit trails

- Description of configuration (not detailed)

- Port list

- Description on how to start/stop/inquire service

- **Service Reference Cards**

- <https://twiki.cern.ch/twiki/bin/view/EGEE/ServiceReferenceCards>

- Configuration documentation
 - Statement on 32/64 bit compliance
 - Statement of functionality that will be supported including an estimated scale
 - Tests for supported subset functionality
 - Initial operations guide
 - How to drain service
 - How to restart service
 - Needed actions to activate configuration changes
 - Cleanup procedure after abrupt stop of the service
 - Effect of service unavailability on other services
 - Service maintenance
 - Known issues

- **New approach to handling “large changes”**
- **Pilot services**
 - **Corresponds closely to current PPS**
 - **Is post-certification, multi-activity**
- **Experimental services**
 - **Corresponds to the way the WMS was handled**
 - **Is pre-certification, but multi-activity**
 - **Result must be reproduced and certified**
- **Preview services**
 - **Is pre-certification**
 - **Is led by JRA1**
 - **Typically to verify user requirements**
 - **Limited lifetime for prototyping**

- **MSA3.4.1 proposes a classification of all major and critical bugs. The following need to be considered**
 - **URGENCY – how quickly a resolution is required**
 - **IMPACT – how the problem affects the production infrastructure**

	High impact	Med impact	Low impact
High Urgency	1	2	3
Med Urgency	2	3	4
Low Urgency	3	4	5

- **Once could say eg that “1” is a critical**

- **Targets for process automation**
 - **check when a patch is submitted to see what rpm clashes there are (eg rpms at earlier versions already in the system).**
 - **ensuring the 'nodes affected' on a patch is always right**
 - **move bugs to 'fix certified' when patch certified - or just a warning?**
 - **move bugs to 'R f R' when patch released**
 - **watchdog – asynchronous checking**
 - **automatically clean up 'ready for review' bugs after 1 month**
 - **mail release manager if a patch hasn't been touched for a week**
 - **cleanup bugs in state 'none' - ie post a message**
 - **allow bugs to stay in 'none' for 3 days?**

- **We have established ways of getting stuff into the release**
 - **What about getting stuff out?**
- **Propose rolling release versioning, like SL4**
 - **We do checkpoints every 6(?) months**
 - **In each case gLite 3.x -> 3.(x+1)**
 - **gLite 3.2 would be on SL4 and SL4 simultaneously**
 - **RPMS.release is updated to latest**
 - **Certain older service/platform combinations may not be updated**
- **We need a longer term plan for what's in and out so user communities can adapt**
 - **Removal of GRAM submission from the infrastructure**
 - **To be described in the gLite roadmap, MSA3.7**
- **How do we**
 - **Identify versions in production**
 - **Decide what versions are good (policy)**
 - **Publish the decision**
 - **Enforce the decision**

- **MSA3.4.1**
 - Available in SA3 EDMS;
 - <https://edms.cern.ch/document/973115/1>