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# Release Notes for CREAM 1.13

- CREAM can be optionally configured to use ARGUS as authorization system. The CREAM CE can be configured to use as authorization system:
  - ◆ the ARGUS authorization framework OR
  - ◆ the grid Java Authorization Framework (gJAF)

In the former case a ARGUS box (usually at site level) where to define policies for the CREAM CE box is needed.

- Support for description and allocation of resources in a multi-core environment. Support for the new JDL attributes `WholeNodes` (whether whole nodes should be used), `HostNumber` (how many nodes should be used) and `SMPGranularity` (How cores should be distributed over the cluster). See <http://wiki.italiangrid.org/twiki/bin/view/CREAM/JdlGuide>
- Support for glite-cluster. `glite-CLUSTER` is a node type that can publish information about clusters and subclusters in a site, referenced by any number of compute elements. `glite-CLUSTER` can be deployed in the same host of the CREAM-CE or in a different one.

The following deployment models are possible:

- ◇ CREAM-CE can be configured without worrying about the `glite-CLUSTER` node. This can be useful for small sites who don't want to worry about cluster/subcluster configurations because they have a very simple setup. In this case CREAM-CE will publish a single cluster/subcluster. This is called no cluster mode.
- ◇ CREAM-CE can work on cluster mode using the `glite-CLUSTER` node type. The CREAM-CE can be in the same host or in a different host from the `glite-CLUSTER` node.

More information about `glite-CLUSTER` can be found at <https://twiki.cern.ch/twiki/bin/view/LCG/CLUSTER>

- Initial experimental publishing of computing service information in Glue 2.0 format
- Support of Outputdata JDL attribute in the CREAM CE. This attribute allows the user to ask for the automatic upload and registration to the Replica Catalog of datasets produced by the job on the WN. See [http://wiki.italiangrid.org/twiki/bin/view/CREAM/JdlGuide#3\\_29\\_OutputData](http://wiki.italiangrid.org/twiki/bin/view/CREAM/JdlGuide#3_29_OutputData)
- Several bug fixes.

Relevant Savannah task: <http://savannah.cern.ch/task/?18534>

-- MassimoSgaravatto - 2011-05-05

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