



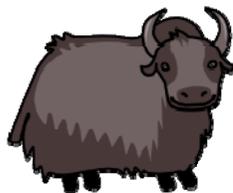
Enabling Grids for E-scienceE

YAIM 4 developers

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YAIM



- **Introduction to YAIM modules**
- **Who is developing YAIM modules**
- **YAIM module architecture**
- **YAIM module development**
- **Resources for YAIM developers**
- **Conclusions**



- **Starting from YAIM 3.1.1-9:**
 - We are moving to one yaim module per node type + yaim core
- **In YAIM 4.0.1-6:**

(which is *Certified* for 3.1 and in *Ready for Certification* for 3.0)

 - All the yaim modules are available
- **YAIM modules:**
 - contain 3.0 and 3.1 configuration in the same module
 - depend on yaim core
 - allow independent yaim releases when necessary



Who is developing YAIM modules

- org.glite.yaim.core
 - org.glite.yaim.clients
 - org.glite.yaim.wms
 - org.glite.yaim.lb
 - org.glite.yaim.dpm
 - org.glite.yaim.lfc
 - org.glite.yaim.fts
 - org.glite.yaim.mon
 - org.glite.yaim.myproxy
 - org.glite.yaim.sge-server
 - org.glite.yaim.sge-client
 - org.glite.yaim.sge-utils
 - org.glite.yaim.dcache
 - org.glite.yaim.amga
 - org.glite.yaim.mpi
 - org.glite.yaim.torque-server
 - org.glite.yaim.torque-client
 - org.glite.yaim.torque-utils
 - org.glite.yaim.condor-server
 - org.glite.yaim.condor-client
 - org.glite.yaim.condor-utils
 - org.glite.yaim.lsf-utils
 - org.glite.yaim.rb
 - org.glite.yaim.lcg-ce
 - org.glite.yaim.se-classic
 - org.glite.yaim.bdii
 - org.glite.yaim.e2emonit
 - org.glite.yaim.hydra
 - org.glite.yaim.cream-ce
- Gergely Debreczeni, Maria Alandes
 - Andreas Unterkicher, Gergely Debreczeni, Maria Alandes
 - Di Qing, Nuno Orestes
 - Di Qing, Nuno Orestes
 - Sophie Lemaitre, Gergely Debreczeni
 - Sophie Lemaitre, Gergely Debreczeni
 - Gavin Mccance, Steve Traylen
 - Alastair Duncan
 - Shu-Ting Liao
 - Gonçalo Borges
 - Gonçalo Borges
 - Gonçalo Borges
 - Owen Synge
 - Asterios Katsifodimos
 - Stephen Childs
 - Gergely Debreczeni, Maria Alandes, Nuno Orestes
 - Gergely Debreczeni, Maria Alandes, Nuno Orestes
 - Gergely Debreczeni, Maria Alandes, Nuno Orestes
 - Christian Neissner
 - Christian Neissner
 - Christian Neissner
 - Maria Alandes
 - Gergely Debreczeni, Maria Alandes
 - Di Qing, Nuno Orestes
 - Gergely Debreczeni, Maria Alandes
 - Laurence Field
 - Gergely Debreczeni, Maria Alandes
 - Akos Frohner
 - Sara Bertocco, Simone dalla Fina



- **29 YAIM modules**
 - 15 YAIM modules developed by external contributors
 - 14 YAIM modules developed within SA3 at CERN
- **Who can be a YAIM module developer?**
 - Anybody who wants to contribute!
 - Middleware developers are very good candidates
- **Some candidates**
 - Not in YAIM yet
 - VOMS
 - DGAS
 - LSF
 - Currently developed by the YAIM team at CERN
 - WMS, LB and lcg CE yaim modules currently developed by the same person!
 - APEL
 - VOBOX
 - Myproxy
 - UI
 - WN



- **Example can be found in :**

<http://grid-deployment.web.cern.ch/grid-deployment/yaim/examples/org.glite.yaim.lemon.tar.gz>

- **Structure of the CVS module:**

/config

 /functions

 /node-info.d

 /defaults

 /services

Makefile

glite-yaim-lemon.spec



We will provide you with this!



- **A tutorial can be found in :**
<https://twiki.cern.ch/twiki/bin/view/EGEE/YAIMmoduleHOWTO>
- **Development process:**
 - Write the functions that will configure your module
 - Add the list of functions to your function list
 - Declare the relevant variables to configure your service
 - Document your variables!!
 - by creating man pages (a template will be also available)
 - https://twiki.cern.ch/twiki/bin/view/LCG/YaimGuide400#Service_configuration_variables
 - Tag your code in CVS
 - Launch a remote build in ETICS
 - Open a patch in Savannah including the relevant list of rpms



But you are JRA1 and you know how to do this!

- **Although...**
 - We will create the CVS module template for you
 - containing Makefile and spec file ready to use
 - We will create an ETICS configuration template for you



- **Example YAIM module**

<http://grid-deployment.web.cern.ch/grid-deployment/yaim/examples/org.glite.yaim.lemon.tar.gz>

- **Tutorial on YAIM module development**

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

- **YAIM developers guide**

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

– *Where to start?* section with a summary for new developers

- **In general**

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

- **YAIM team support**

yaim-contact@cern.ch

- **YAIM developers mailing list**

yaim-devel@cern.ch



- **Advantages of YAIM modules**
 - independent development and release process
 - common and simple structure
 - Increase the number of YAIM contributors
- **Distributed working environment implies...**
 - Accurate and up to date documentation
 - Description of existing functions
 - Description of common tools
 - *yaimlog*
 - *comment syntax*
 - Mechanism to propagate changes affecting all modules
 - Mailing list?
 - Control the 'quality' of YAIM modules

