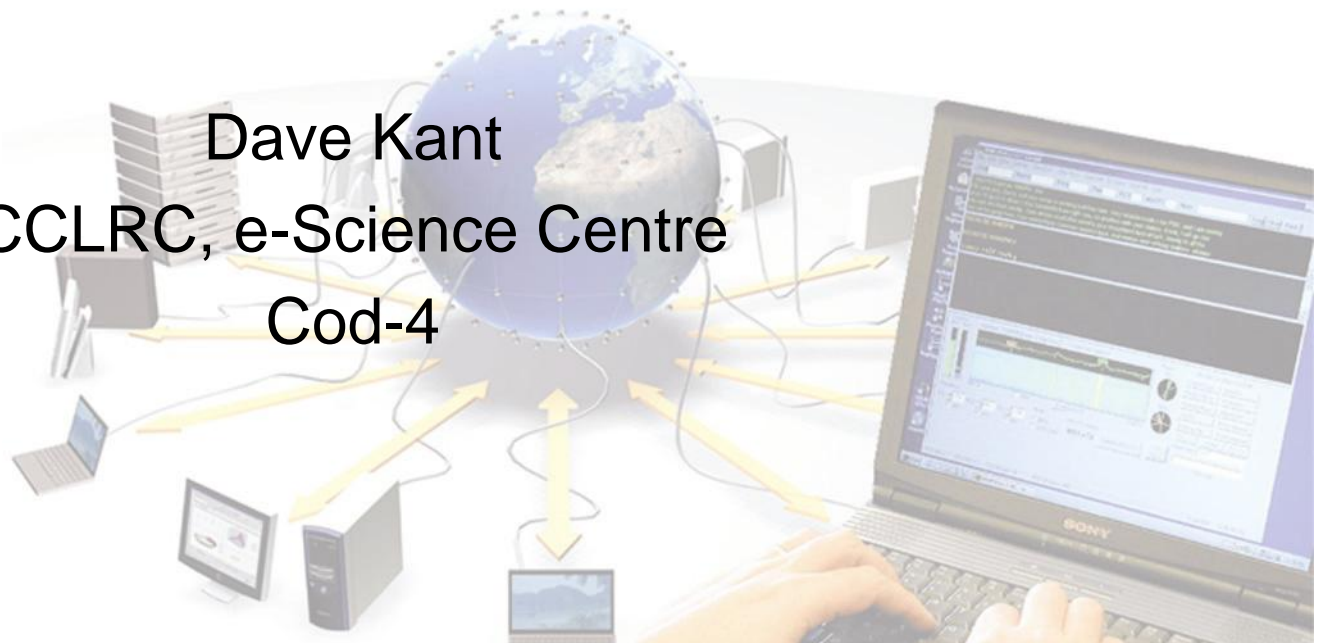




Enabling Grids for  
E-science in Europe

## GOC Database Developments

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Cod-4



# Overview

1. Overview
2. GOCDB Advisory Group
3. What's been done so far
4. Current Activity
5. Scheduled Downtime
6. Work to do

# Advisory Group

- GOCDDB received requests for changes / additions / improvements from the community covering many areas from ROC& CIC issues to security.
- Small group to discuss and shape ideas, decide relative priorities, involving a small number of people to represent various interests:-
  - ROCs – Christina
  - CICs – Nick
  - COD – Helene
  - Security – Ian
  - VOs – Rolf
  - Deployment/Configuration/Monitoring – Markus
- Given time required to develop/test implementations, the group need only meet occasionally and could discuss ideas via email.

# Developer Feedback

- Web page to inform the group on progress
- [goc.grid-support.ac.uk/gridsite/gocdb/gocdb2.html](http://goc.grid-support.ac.uk/gridsite/gocdb/gocdb2.html)

## Current GOCDB2 to do list (Last updated: 26.09.05)

Here is a prioritised list of most important work being undertaken on the GOCDB2 at the present time. Priorities of the work following the GOCDB2 advisory committee (21st July 2005) meeting are indicated in the left column.

Priority	Description	Progress
Complete	Resolve problems with site status	■■■■■
Complete	Resolve ambiguous field names on GOCDB interface	■■■■■
Complete	Change visibility of contact information for normal users	■■■■■
Complete	Implement node level scheduled maintenance	■■■■■
Complete	Implement email alerts on modification of data	■■■■■ *
1	Fix incorrectly escaped special characters in DB fields (bugfix)	■ ■ ■ ■ ■
2	Improve scheduled downtimes	■ ■ ■ ■ ■
3	Read only DB flag	■ ■ ■ ■ ■
4	Improve contact handling	■ ■ ■ ■ ■
5	CIC core service flagging	■ ■ ■ ■ ■
5	Implement site search	■ ■ ■ ■ ■
6	Add a 'test' type	■ ■ ■ ■ ■

This is Matt  
Thorpe's To  
Do List

# New Features Implemented

- New authentication system (GOCDDB2) to allow group level administration
  - ROC Managers Page
    - Scope: Actions applied to one to more sites belonging to a ROC
    - Actions: Change site status ; Change site type
  - COD Page
    - Scope: Actions which can be applied to any site
    - Actions: Change site status
  - Security Page
    - CVS dump of security information
    - Hide contact information to unauthorized users
- Site status fields: suspended; candidate; uncertified; certified;
  - Protocol to suspend sites is under discussion (HC).

- Alerting System
  - Flexible alerting system to notify people when GOCDB data changes.
  - Anyone can be registered to be alerted
  - Define your own alerts
  - Example: changes to general site data
    - When a new site is added
    - When monitoring status of a site is changed
    - When site status is modified e.g. a site is suspended
    - When security data changes
- What Alerts kind of alerts should we implement?
- Simple set of alerts for ROC/CIC/Security people

# Scheduled Downtime (SD)

- GOCDB has Scheduled Downtime and monitoring flags; they are currently logically separate.
- Selection of resources to monitor is based on monitoring flags
  - SFT certified + production + monitoring on
  - **Does SFT selections based on the SD window?**
  - **Is there a GocWiki page?**
- Currently, sites can disable monitoring, even if they are in certified and in the production.
- Implement some logic so that sites must declare scheduled downtime in order to withdraw from standard monitoring testing.
- Understand the circumstances under which certain actions can be performed.
- SD could then be used as a metric for site availability.

# Scheduled Downtime

- Any site can declare a period of Scheduled Downtime, but when should a site be allowed to disable monitoring?

Candidate	Un-Certified	Certified	Suspended
<ul style="list-style-type: none"><li>Always in SD</li><li>Monitoring always Off</li></ul>	<ul style="list-style-type: none"><li>These site are not in the production grid.</li><li>Testing is local and by the ROC</li><li>No special logic required.</li></ul>	<ul style="list-style-type: none"><li>Monitoring mandatory and may only be disabled if in a period of SD.</li></ul>	<ul style="list-style-type: none"><li>No special logic required as these sites are ignored by monitoring and information services.</li></ul>

- What happens after SD?  
SD does not imply “middleware upgrade” e.g. Air/Con  
Should certified sites after SD return to a certified status?  
By definition, un-certified sites require a grace period before they can be changed to certified. However, after SD, some testing may be required to verify that the site is operational.



# Conclusions

1. GOCDB development driven by requirements / priorities determined by GOCDB Advisory group.
2. Rollout to production depends on the complexity of the implementation
3. Rollout cycle (development, testing, deployment) take about 2-3 weeks.