SAFE Service Integration

Dr Stephen Booth, EPCC













Service integration

- Can support several levels of integration between SAFE and services
 - Lightweight integration
 - Minimal requirements on service operators
 - Greatest flexibility
 - Lowest level of SAFE features available
 - Full integration
 - Highest level of SAFE features
 - Slightly more prescriptive
 - More requirements on service operators





Change tickets

- SAFE requests changes via pre-defined change tickets
- Fairly large number of these but services do not need to support all of them
- Simplest interface is just email request tickets completed via webpage
 - More advances scripting interfaces also available
 - Ticket contents can be downloaded as XML or JSON





Reporting only

- Minimum integration level
- Services provide data-feeds to SAFE for reporting purposes
 - No service requests come from the SAFE
 - All accounts allocations etc. handled by service
 - However also need additional data/mechanism to match user accounts and projects/budgets to SAFE users/projects
 - Could match users via email address.
 - Having a consistent naming scheme for budgets would help
 - Exact mechanism will depend on local service details so service and SAFE teams will need to design and implement a mechanism





Partially managed

- Equivalent to DIRAC model
- Centrally managed projects come from the SAFE
- User accounts for these projects requested via the SAFE
 - Can co-exist with local projects/users
 - Life will be easier if we reserve ARCHER style project codes for use by SAFE
 - Solves project/user matching problem
- Devolved project management features may be limited if SAFE is only managing sub-set of projects





Fully managed

- Equivalent to ARCHER and EPCC local systems
- All projects and accounts are allocated through SAFE
 - May be worth scripting the SAFE change tickets
 - Normally we keep an admin in the loop but implementation script downloads change parameters from SAFE
 - Also possible to fully script the implementation
 - Batch system resource limits can also be integrated
 - SAFE maintains internal resource budgets decremented when accounting data uploaded
 - Budget state and access lists can be pushed/pulled from SAFE
 - Need to add hook to batch system to implement these limits
 - Project managers have devolved control over project budgets





Missing requirements?

- What to users/projects what to be able to manage via the SAFE?
- What do service operators want managed via the SAFE?
 - Local constraints?
 - Local policies?
 - etc.



