ICAT at ISIS

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Status

- ICAT 3.3: production for 5+ years
- ICAT 4.3: production - parallel
- ICAT Data server: production
- Authentication: Full user office plugin
- Large Rule set - (mostly) implements our data policy
Review – Past Issues

- Rules system now supports most of what we need
- IDS reference implementation required only minor changes
- Investigation <-> Instrument change painful, but useful
- SampleType constraint changed
- TopCAT single sign on
Current Issues

• Network reliability at RAL
  – Due to network topology ISIS staff see this as an ICAT problem

• Periodic server hangs
  – Not always sure why (memory, load, ?)
  – Multi node setup for balancing and reliability
1 year plan – Lund

- Go live with 4.2 / 4.3 / 4.4  ✔
- Mantid integration with 4.x  ✔
- Switch off 3.3  ❌
- Upload of processed data
  - from Mantid  ✔
  - From TopCAT  ❌
<1 year Requirements - Lund

- Permissions control in TopCAT  ❌
  - ICAT auth rules to support this  ❓
- GUI tweaks to TopCAT  ✔
- IDS reference implementation  ✔
- Data upload from Mantid  ✔
2014/15 plan

• Continue verification testing of 4.3
• Continue Mantid integration with 4.3
• Switch off 3.3

• New interfaces (see later presentation)
• ISIS ‘Scientific Computing Strategy’
Requirements

- See the roadmap (?)
- Further enhancements to rules
- GUI changes to TopCAT....maybe more
- Stability – no *breaking* changes
- Performance generally very good
  - Function of ingest server, database and network
  - Some rules can cause ‘slow’ queries
Questions...