UNICORE Rich Client
Recent Developments and Roadmap

September 7, 2015 | Björn Hagemeier and Bernd Schuller
Recent Developments

• Platform Upgrade
• Metadata support
• Complete support for storage factories
Platform Upgrade

- Eclipse Indigo (3.7) → Eclipse Luna (4.4)
- Better compatibility with modern systems
  - Avoid problems with MacOS X
  - Certain Linux Desktop environments
- GTK and browser support caused headaches and crashes particularly at startup
Metadata Support - View

- Metadata view
- Direct editing
- Quick filter for keys and values
- Save through global save command
Metadata Support - Search

- Single search view provides access to matching files
- Precise search for key/value pair
- Drag & Drop or open files directly
Storage Factories

- Support for multiple storage types
- User-defined parameters depending on server-side description
Roadmap

- Further usability enhancements
- Flexible security setup
- Replace Swing-based App
- Provenance
- Code Maintainability
Usability

• Use platform dialogs as much as possible
  – Provide platform default behavior, e.g. ESC to cancel, RETURN to confirm dialog
  – More pleasant look and feel
  – Improves maintainability by reducing code and enabling the use of GUI builders
Security Setup

- Setup everything within the running session
- No need to restart for different AuthN mechanism, e.g. UNITY
- Realized akin to existing profile support or extending it
Replace Swing-based Applications

- Pure SWT is better in Eclipse
- Will not be able to provide exact same look and feel as the Script Application
  - SWT follows a different approach
- Generic Application plus editing input scripts comes close to Script functionality
  - This is also done in the portal
Provenance

- Support jobs and workflows with provenance tracking enabled
- Visualize provenance data about selected jobs and workflows
Maintainability

- Use platform features, i.e. extension points and extensions, as much as possible
- Prefer configuration over code
  - Particularly relevant for menus
- Comes along with usability enhancements
Under the hood

- Recently moved to Git SCM
  - https://sourceforge.net/p/unicore/urc.git
  - Better supports development mode
- Eclipse Luna → Mars
  - not easily possible
  - Some changes still required
  - No hints about missing classes in Eclipse migration documentation
- Need to rework keystore and truststore handling
  - BC → caNI