Open-source tools for safety cases

CertWare is a workbench for safety case development and management built on top of the Eclipse platform. Leveraging the OMG’s standards for argument and evidence meta-models, CertWare provides a number of different safety case argument constructions in either textual or graphical presentation formats. Wizards provide creation of example arguments for reference or reconstruction. Bayesian reasoning engines provide support for uncertain evidence. Semi-formal proofs and verification checklists support auditing and case analysis. Change order and project task models contribute to project management metrics analysis for the case development activities. Eclipse configuration management tools provide team support. Add your own model types, editors, views, or validation rules to suit your project activities.

Features
- Open-source plug-in construction
- ARM, GSN, CAE argument styles
- Semi-formal proof arguments
- Model structure validation
- Project management integration
- Argument metrics collection
- Examples wizard and library
- Graphical and textual editors
- Bayesian evidence analysis
- Model-to-model transformation
- Import/export Microsoft Word XML
- Export to Microsoft Project MSPDI
- Java-based, multi-platform

Principal Investigator: Matthew R. Barry, PhD
Company: Kestrel Technology LLC
Phone: 832-205-4876
E-Mail: mrbarry@kestreltechnology.com

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