



Trust Case Toolbox (TCT) usage questionnaire

If you need more space to express your opinion, feel free to expand the cells of the questionnaire

Part 1 – Context of usage

Date of filling the Questionnaire:	2008-02-08		
Organization (name and address):	Austrian Research Centers – ARC Donau City Straße 1, TechGate Tower A-1220 Vienna, Austria		
The person filling the Questionnaire			
Name:	E-mail contact:	Position:	
Erwin SCHOITSCH	Erwin.schoitsch@arcs.ac.at	IT Research Manager	
Period of usage	From:	Sept. 2006	To: Dec. 2007
For what purpose TCT tool was used:			
<p>The tool was used to build a trust case in context of a vulnerability analysis for the “DECOS on Chip” concept (for planned implementation of the DECOS architecture and high level services as time-triggered network-on-chip (NoC, multi-core HW architecture)). DECOS aims at safety-critical systems in an integrated architecture, i.e. co-existence of safety-critical and non-safety-critical parts on the same nodes in the time-triggered network in a guaranteed safe manner (separation in time and space). For the NoC security a multi-level security architecture was chosen. The vulnerability issue was security impact on safety, i.e. to demonstrate in the trust case that there is no safety risk from security breaches, based on arguments supported by the validation documents of DECOS.</p>			
If the work was conducted as part of a formal project, please specify the project:			
<p>Integrated Project DECOS (IST-FP6-511764, full title: Dependable Embedded Components and Systems) of the 6th Framework Programme of the European Commission. The work was part of the subproject SP4, Validation and Certification Support.</p>			
Key personnel using TCT			
Name:	E-mail contact:	Position	
Dr. Egbert Althammer	Egbert.althammer@arcs.ac.at	Senior Scientist	
Dipl.-Ing. Erwin Schoitsch	Erwin.schoitsch@arcs.ac.at	IT Research Manager	

Part 2 – General opinion

What is your general opinion about TCT and value added provided by it:
Very useful <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Not useful at all
Comments: The tool was very useful, the GUI, symbols for trust case entries and handling was appreciated by the users. Print option is considered important. It was used as remote client, integrating documents for arguments from a remote Microsoft Portal Server with password protection (URL document links worked, more level of detail not).
Is the language for expressing trust cases sufficient?
Sufficient <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Not sufficient
Comments (e.g. additional nodes, node relations, scope of information in a node): Setting of ID-numbers remains an issue (automatically? Or it least a proposal (accept or not accept) should be given to the user (we are aware of the problems in case of transferring trust

trees etc.).		
<i>Had the users any prior experience with methods and tools for trust/assurance/safety cases?</i>	<i>YES/NO</i>	Yes
<i>If 'YES' give more details:</i> Generic Safety Cases for DECOS were produced before (with manual support, and requirements taken from a DOORS database (underlying the DECOS Test Bench management and workflow as basis for processing and controlling the V&V processes).		

Part 3 – Assessment of TCT tool		
<i>TCT functionality (scope of functions provided):</i>		
Sufficient <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Not sufficient		
<i>Comments (e.g. missing functions):</i>		
<ul style="list-style-type: none"> - printing at clients site (or transferring printable pdf or Word-files to the client) - import/export functions (from/to word documents, to/from other tool interfaces (e.g. the DOORS databas used in the DECOS Test Bench) could be improved or made accessible for users for integration into their V&V environment (remote invocation) - Setting of ID-numbers remains an issue (automatically? Or it least a proposal (accept or not accept) should be given to the user (we are aware of the problems in case of transferring trsust trees etc.). 		
<i>TCT ease of use (interaction mode, interface features):</i>		
Easy to use <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Hard to use		
<i>Comments (e.g. non-ergonomic functions, problematic steps of interaction or elements of interface):</i>		
<ul style="list-style-type: none"> - the Editor is easy to use, User manual available - One proposal from our users: some additional User Guideline (“Trust Case beyond just editing”) would be helpful (how to create a trust case reasonably, to build the trust tree - 		
<i>TCT non-functional characteristics (performance, reliability, availability):</i>		
Very good <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Poor		
<i>Comments (e.g. performance problems, errors encountered, server unavailability):</i>		
Since our trust case covered just one vulnerability aspect of an architectural concept (“security impact on safety for the DECOS multi-core NoC implementation”), the trust tree was not very complex, so no performance problems were envisaged).		
<i>Strong sides of TCT:</i>		
<ul style="list-style-type: none"> - nice GUI - easy to handle if the trust case development was really understood - distributed data and remote access well implemented - printing option (two views to present contents) - basic security features available and supported 		
<i>Weak sides of TCT: I would not say “weak sides”, but “Potential for Improvement”!!</i>		
<ul style="list-style-type: none"> - import/export functions to/from external tools and repositories - in case of confidential information: security has to be looked at in detail - User guideline (on-line?) on how to create a good trust case - Setting ID numbers of entries correctly could be supported in a smart manner. 		

Part 4 – Free comments

Any additional suggestions (e.g. additional features to be added to TCT):

See part 2, part 3.