

Document Release Form for Code Release

for Code Release
OCEC: No. B-055 LL6566

	<u> </u>			
1. Code Title Code Version: 1				
tox (Tomcat, Oracle, & XML) framework for model/view/controller web applications.				
LLNL Author Contact David Craig Cothren	Employee No. 005922 Ext. 3-5179 L- 621			
Administrative Contact David Craig Cothren	Employee No. 005922 Ext. 3-5179 L- 621			
Directorate and Dept./Div. Computation/CAR/S&TC				
Program Account 3616 - 7 Payroll Account 9818				
Authors (Please provide either the LLNL employee number or the author's affiliation)				
David Craig Cothren, Computation/CAR/S&TC				
2. Review Criteria				
☐ Yes ■ No LDRD Funding was used on this project. Tracking #				
Yes No In my opinion, the computer code or software contains	new functionality, is new code for electronic devices			
adaptive control, numerical control, multi-data-stream p service/engineering code.				
If Yes,				
to the LLNL Patent Office a written Record of Invention (ROI) regarding any of the material in this code.			
If you have submitted a ROI, please provide:				
Record of Invention File Number				
Inventor's Name(s)				
Title				
☐ I have made ☐ I have not made improvements not	t included in the preceding ROI.			
☐ I have ☐ I have not described these improvements	s in this code.			
Yes No Cooperative Research and Development Agreement (CF	RADA) Information is included in this code.			
Yes No The Technology (information) will be, or is in the public the public, e.g., already published, educational, included etc. If No, an export control review is needed if this code	d in patents, in public libraries, fundamental research,			
Yes No Does your code contain any National Ignition Facility (NII	F) derived/related data or information?			



Document Release Form for Code Release
OCEC: No. De - OSS LL6566

3. CODE Release Information (read instructions before completing) 3a. Author Certification			
1. Code Category			
DUSA Code DUSA Title MATHEMATICS & COMPUTATION - MATHCOMP			
☐ Non DUSA Code			
2. Code Specifics			
a. Code Type: Physics Engineering Utility Software System Application			
Please specify contents (see instructions 2.a) Model/View/Controller Web Application Framework			
b. Source Code Executable Code Both			
c. Yes No This code (or an earlier version) was previously determined to be releasable as unclassified.			
If yes, code title and version:			
d. Yes No Code manual/user guide (not Simple documentation).			
If yes, a separate review is required through the IM system. e. Yes No Code in development			
Approximate number of collaborating groups or individuals			
Expected duration of collaboration 1, David Craig Cothren			
Are any of the collaborators:			
Under contract to LLNL?			
If Yes, Name Contact			
Foreign nationals? Yes No			
If Yes, Name Contact			
3. Yes No Range of unclassified applications is obvious to non-specialist from either the code or documentation.			
4. Yes No All authors, developers or users are cleared, and all work is within a limited area.			
5. Yes No The code contains military, intelligence, security-related models or simulations.			
6. Yes No The referenced code is explicitly free of classified information.			
7. Yes No All funding comes directly or indirectly from DOE, or sponsors have provided classification guidance.			
8. Yes No Record of Invention (ROI) has been completed on this code.			
9. Yes No License through IPAC Development Acct No.			
10. LYes No Freedom of Information of Act Request (attach copy of request and DOE approval for request)			
3b. Code disposition			
A. Open Source			
B. Other: Limited Unlimited			
Authors Signature Date 6/3/2008			
3c. Directorate Confirmation			
Dissemination of this code to the above disposition is allowable, consistent with LLNL's classification and UCI requirements.			
Program or Designee name Kon Schmucker Employee Number 792044			
Program AD or Designee Signature All B. Control Date 1/16/08			



Document Release Form for Code Release
OCEC: No. 96-95 LL6566

4. Authorized Derivative Classifier	(if DUSA do not complete this sec	tion)			
Code Is: Unclassified OUO	UCNI				
Reason for Unclassified release					
Outside scope of AEA and EO	☐ CG-DAR-2, Topic(s)				
Other Guide(s)	Topic(s)				
As the reviewing ADC, the information in this source code is within my technical competence and programmatic purview and I am familiar with the project work and classification guidance related to this code.					
ADC Reviewer Name	Employee Number	Title			
ADC Reviewer Signature	Date				
5. Office of Classification and Export Control					
Code Review					
Classification					
Code is a DUSA per author					
Code is unclassified (U, OUO, UCNI)) per ADC review				
Code is unclassified as amended					
Comments					
Mathematics and Computation DUSA confir	med by ADC review, Evi Dube (3-6021).				
Fire and Combrel					
Export Control Open source, this code is not export	controlled				
Open source, this code is not export controlled Unlimited, this code is not export controlled					
Limited, this code is export controlled					
OCEC Release					
	This code can be released based on the classification, and export control determinations.				
This code cannot be released based on the classification, and export control determinations. RETURN TO AUTHOR.					
Comments					
Comments					
		8			
OCEC Reviewer Name R-GRAYS	Employee Number				
OCEC Reviewer Signature	Zagron Date 6/4/08				



Document Release Form for Code Release
OCEC: No. 19 15 LL6566

6. Intellectual Property Review 6a. Patent Release				
 No new potentially patentable inventions or discoveries, made to be described in this code. Inventions described in this document have been published, or an armonic process. 				
☐ Inventions described in this document have been reported on the following Record of Invention:				
IL- S-	IL-	S-		
Comment:	Comment:			
Received approval from the Department of Energy. DOE Rele	ease			
Therefore, there is no objection from the patent standpoint, to release	ase of this work as follows	S :		
■ Unlimited Release	n 🗌 Label "B"			
IPAC Comments:				
IPAC Reviewer Name: IPAC Reviewer Signature:	is	Employee No. 934497 Date $2/22/08$		
6b. Code Release				
Code Distribution Limited: Licensees Code-in-development Unlimited				
Open Source: GPL LGPL BSD				
Notices: 1 2 3 Comments				
IPAC Reviewer Name: IPAC Reviewer Signature Jeahlogers Jeahlogers	Employee Number	6000		

January 15, 2008

To: Information Management (IM), L-662

From: David Craig Cothren, (cothren2@llnl.gov)

Subject: Memorandum for Record for Software Release of tox

The tox (Tomcat Oracle & XML) web archive is a foundation for development of HTTP based applications using Tomcat (or some other servlet container) and an Oracle RDBMS. Use of tox requires coding primarily in PL/SQL, JavaScript, and XSLT, but also in HTML, CSS, and potentially Java. Coded in Java and PL/SQL itself, tox provides the foundation for more complex applications to be built.

This is the first release of tox, version 1.0, to the public.

The functionality of tox is not specific to any LLNL, NNSA, nor DOE application and contains no data pertaining to these. Per the ADC review by Evi Dube this code qualifies under the DUSA, Mathematics and Computation.

Abstract for Software Release of tox

The tox (Tomcat Oracle & XML) web archive is a foundation for development of HTTP based applications using Tomcat (or some other servlet container) and an Oracle RDBMS. Use of tox requires coding primarily in PL/SQL, JavaScript, and XSLT, but also in HTML, CSS, and potentially Java. Coded in Java and PL/SQL itself, tox provides the foundation for more complex applications to be built.

The source code for tox was written by David Craig Cothren, who is a member of the Science & Technology Computing Division (S&TC) under the Computing Applications & Research Department (CAR) under the Computations Directorate.

The tox software was completed in January 2008. It is a derivative of the XML Oracle Interop (xoi) software that was also written by Mr. Cothren. The xoi software is a more primitive version of the same functionality with deprecated interfaces.

The tox framework enables the construction of applications using the model/view/controller (MVC) design pattern. With a controller that executes interpreted XML for creating the model and view, developers can construct new functionality. The model is retrieved either via includes or by the execution of Oracle's stored procedures and then passed to an XML Stylesheet transform (XSLT) to construct and return the view. Different combinations and options provide rich dynamic content.

The tox web archive (war) is designed to run within a tomcat installation against an Oracle relational database. Tomcat is available from the Apache Software Foundation at http://tomcat.apache.org/. The tox war has been tested with version 5.x of tomcat. Oracle's relational database is a commercial database, available from Oracle Corp. at http://www.oracle.com.

Addendum to the "Abstract for Software Release of tox" per the formatting specified in Information Management's Technical Information Department's format description at https://imint.llnl.gov/rr-software-abst-inst.html.

LLNL has adopted the Energy Science and Technology Software Center's (ESTSC) Abstract Format Description. Please include the following information in your abstract:

- 1. **Identification**. Used to uniquely identify the software.
 - a. Software Acronym: tox
 - b. Short or Keywords in context (KWIC) title: tox (Tomcat Oracle & XML) web archive.
- 2. **Developer Name**: The source code for tox was written by David Craig Cothren, who is a member of the Science & Technology Computing Division (S&TC) under the Computing Applications & Research Department (CAR) under the Computations Directorate.
- 3. Software Completion Date: January 2008
- 4. **Brief Description**: The tox (Tomcat Oracle & XML) web archive is a foundation for development of HTTP based applications using Tomcat (or some other servlet container) and an Oracle RDBMS. Use of tox requires coding primarily in PL/SQL, JavaScript, and XSLT, but also in HTML, CSS, and potentially Java. Coded in Java and PL/SQL itself, tox provides the foundation for more complex applications to be built.
- 5. **Method of Solution**: The tox framework enables the construction of applications using the model/view/controller (MVC) design pattern. With a controller that executes interpreted XML for creating the model and view, developers can construct new functionality. The model is retrieved either via includes or by the execution of Oracle's stored procedures and then passed to an XML Stylesheet transform

- (XSLT) to construct and return the view. Different combinations and options provide rich dynamic content.
- 6. Computers for which the software is written: tox will run on any platform that supports a fully functional Java Virtual Machine (JVM).
- 7. **Operating System:** tox will run on any platform that supports a fully functional Java Virtual Machine (JVM).
- 8. **Programming Languages Used:** Java and PL/SQL
- 9. **Software Limitations**: tox will scale to the hardware and software resources allocated to it.
- 10. Unique Features: The tox framework enables the construction of applications using the model/view/controller (MVC) design pattern. With a controller that executes interpreted XML for creating the model and view, developers can construct new functionality. The model is retrieved either via includes or by the execution of Oracle's stored procedures and then passed to an XML Stylesheet transform (XSLT) to construct and return the view. Different combinations and options provide rich dynamic content.
- 11. **Related and Auxiliary Software**: The tox web archive (war) is designed to run within a tomcat installation against an Oracle relational database. Tomcat is available from the Apache Software Foundation at http://tomcat.apache.org/. The tox war has been tested with version 5.x of tomcat. Oracle's relational database is a commercial database, available from Oracle Corp. at http://www.oracle.com.
- 12. Other Programming or Operating Information or Restrictions: None.
- 13. **Hardware Requirements**: tox will run on any platform that supports a fully functional Java Virtual Machine (JVM).
- 14. **Time Requirements**: tox itself runs in sub-second times on all tested platforms.
- 15. References: None.