



OA Repository Strike Team Workshop NESI Collaboration Site

21 February 2006

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Outline



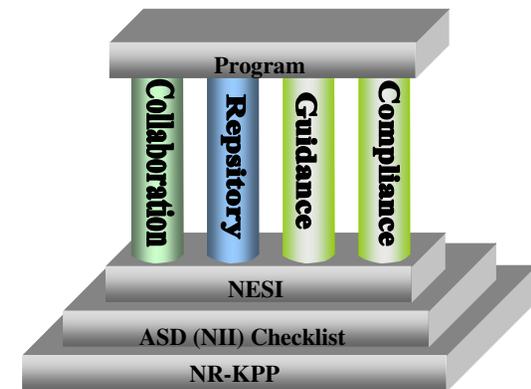
- NESI Context - Introduction
- Collaboration Site Technical Issues
 - Access to NESI-CS
 - Project tools
 - Collaboration tools
 - Repository tools
- Business Issues
 - The Problem
 - The Changed Business Model
 - Secure Business Process
 - Compliance Checks
 - Web Services
- Intellectual Rights and Restrictions
- Wrap-up



NESI Context



- NESI
 - Net-Centric Enterprise Solutions for Interoperability
 - Aligns the acquisition lifecycle and deliverables to Net-Centric and interoperable goals of ASD
- NESI Pillars
 - Collaboration
 - Working together on a project
 - Co-operative project development
 - Repository
 - Common electronic media storage area
 - Guidance
 - Facilitates design, development, and usage of information systems that support Net-Centric Warfare.
 - Compliance
 - Evaluation of a program or project on Net-Centricity





Collaboration



- Collaboration “consists of working together with one or more other people.” (Wikipedia)
- Electronic collaboration is either synchronous or asynchronous
 - NESI provides tools that facilitate asynchronous collaboration
- The NESI Site facilitates collaboration
 - Supports collaborative development vice product-line reuse packaging
 - Toolset focuses on development by groups of users



Collaboration Site Goals



- To promote an open environment of software reuse, asynchronous collaboration, and information sharing.
- To provide a repository of software components, SDKs, APIs and documentation
- Each software component, program, or project will use the NESI Collaboration Site as a front end to their consumers
- Requires repository storage facilities to achieve collaboration



Repository



- Common area where electronic media can be stored and shared
 - Storage facility
 - Web-oriented
 - Privacy management
 - Diverse content
 - Provides baselines for releases
 - Provides backup and recovery
- Critical facility for collaboration



NESI Collaboration Site CONOPS



- NESI-CS is a project oriented collaboration site
- Individual users may request accounts on the Open Source Site.
 - A DoD PKI or ECA/IECA certificate is required
 - User's government POC and justification is evaluated for authenticity.
- Registered users can request access to projects hosted by the site
 - Access to the site does not give the user access to projects
- Projects have control over access to their project
 - Granted by the project admin
 - Ultimately, it is the project's responsibility for how their project is run
- Users of the site can request a new project
 - A NESI Admin approves the request and creates the project
 - The user becomes the admin of the project

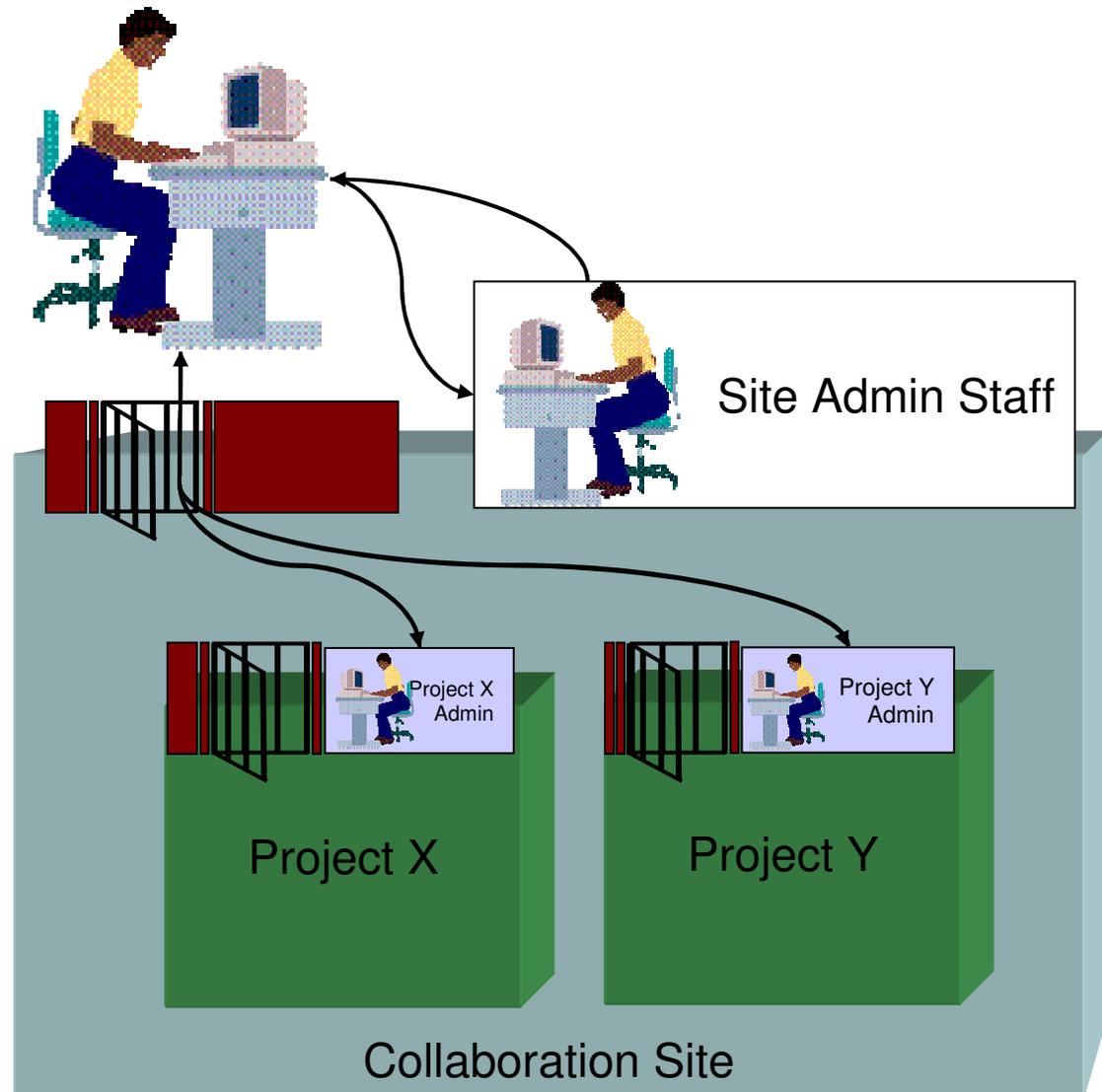
Collaboration Site Access

User requests access to Site

Site Admin Staff approves request and creates account

User requests access to project(s)

Project admin(s) approve request and adds them to the project





CS Homepage



The screenshot shows the NESI Open Source Site homepage. At the top left is the NESI logo. The main header includes the text "NESI Open Source Site" and a navigation menu with items: Home, My Page, Project Tree, Admin, Reporting, and Log. Below the header is a section titled "Netcentric Enterprise Solutions for Interoperability - Open Source Site" with a bulleted list of services. To the right, there are statistics: "Hosted Projects: 38" and "Registered Users: 182". Below the statistics is a search bar with "Advanced Search" and a dropdown menu set to "This project's trackers".

Annotations with arrows point to various elements:

- Site Navigation:** Points to the top navigation menu.
- Project Navigation:** Points to the secondary navigation menu below the header.
- Bookmarks:** Points to the "My Bookmarks" dropdown menu.
- Project Memberships:** Points to the "My Projects" dropdown menu.
- Search:** Points to the search bar.

At the bottom of the page, there is a "Latest News" section with three entries:

- Emergency Maintenance 11 January, 2006:** The NESI Open Source Site will be taken offline for approximately 1 hour at 1500 PST on 11 January, 2006 for emergency maintenance.
- New Features:** We have just finished adding a few new features to the site.
- Server Outage 9/19/2005:** The NESI Open Source Site team will be performing a routine hardware upgrade between 0700 and 0730 Pacific Time.



CS Project Tools



- Each Project has access to a set of collaboration tools from the NESI toolbox
- Availability of the tools to the Project's user is controlled by the Project Admin(s)
- Collaboration tools
 - Summary
 - Admin
 - News
 - Task Manager
 - **Document Manager**
 - **Source Code Manager**
 - **File Releases**
 - **Forums**
 - **Tracker**



CS Project Tree



- Multiple ways to organize projects hierarchically
 - Organizational structure
 - Maturity
 - Programming language
 - Operating System
 - Other custom categories
- CS users use the tree to find projects
 - Request access to projects
- Projects decide their own categorization

NESI Open Source Site
 NESI
 NESI Working Group
 NESI Sites

Browse By:
 Development Status
 NESI Open Source Site
 Operating System
 Programming Language

2 projects in result set.

1. [NESI Site Status Monitor](#) - NESI Site Status Monitor is a small application that runs in the toolbar of Windows and monitors the NESI sites.

Request Access

- Development Status: 5 - Production/Stable [Filter]
- NESI Open Source Site: NESI Sites [Filter]
- Operating System: Windows 2000 [Filter], Windows 2003 [Filter], Windows XP [Filter]
- Programming Language: C# [Filter]

Activity Percentile: 0.00
Activity Ranking: 0.00
Register Date: 2005-05-02 14:33

2. [NESI Open Source Site CM](#) - Used as configuration management project for the NESI Open Source Site.

Request Access

- NESI Open Source Site: NESI Sites [Filter]

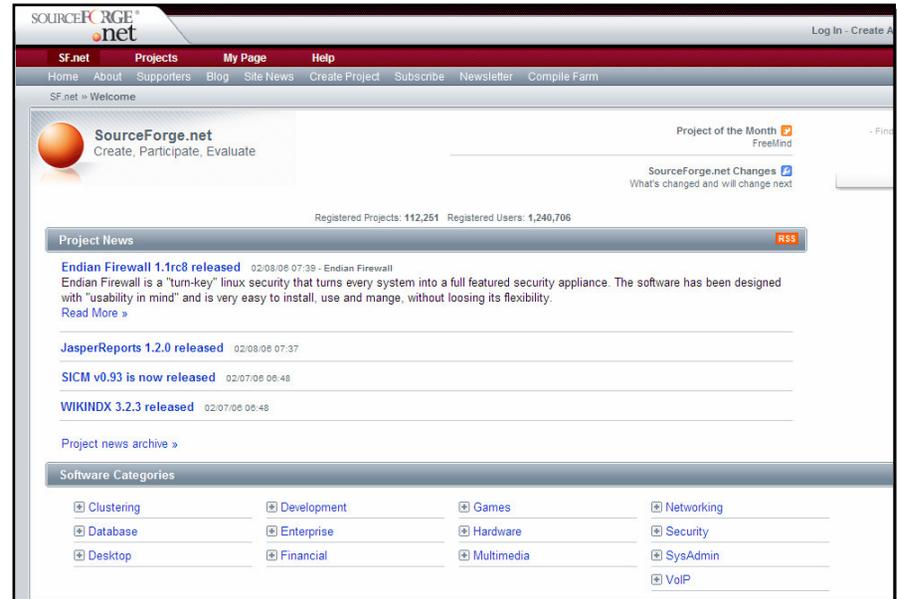
Activity Percentile: 0.00
Activity Ranking: 0.00
Register Date: 2005-04-08 08:07



Gforge from Sourceforge Technology



- NESI-CS is using Gforge
 - Based on Sourceforge technology
- Sourceforge.net is the open source community's primary collaborative development environment
- Toolset is rich enough to support a wide range of requirements
- 112,000+ projects
- 1,240,000+ users





Collaboration/Repository Evolution



- 2002 – Sourceforge 2.x (Alexandria)
 - Open Source, unlimited user licenses
 - Based on unstable “spaghetti code”
 - Used for demonstration of a software repository
- 2003 – Sourceforge 3.x
 - Commercial version from VA Software
 - Limited user licenses
 - Based on Sourceforge 2.x code, stable



Collaboration/Repository Evolution



- 2005 – Gforge 4.0.2
 - Open Source (GPL), unlimited user licenses
 - Based on rewrite of Sourceforge 2.x baseline, stable
 - Needed less restrictive licensing model
- **2005 – NESI Gforge Modifications**
 - Customized to meet NESI and SPAWAR IA requirements
Project Privacy, Site privacy (PKI), Document Manager
 - Built 100% as open source software
Linux, Apache2, OpenSSL, OpenSSH, PHP, PostgreSQL
 - Potential for reuse in DoD



General Project Tools



Developer Info

Project Admins:
Jeremiah
Nick
Gregory
William W.

Developers:
21 [View Members]

Latest File Releases

Package	Version	Date	Notes / Monitor	Download
This Project Has Not Released Any Files				

Project Tools

- Tracker: There are no public trackers available
- Public Forums (19 messages in 3 forums)
- Document Manager
- Task Manager: There are no public subprojects available
- Source Code Management (SCM) Repository

Main project page with quick summary of project activities. Only project description can be seen by NESI-CS users



Administration tool to add, remove, or change users, their roles, and project details and features

Admin | Edit Public Info | Project History | Stats

Misc. Project Information

Short Description: NESI Working Group

[Download Your Nightly SCM Tree Tarball]

Trove Categorization: [Edit]

Tool Admin.

- Tracker Admin
- DocManager Admin
- News Admin
- Task Manager Admin
- Forum Admin
- FRS Admin
- SCM Admin

Unix Name	Role	Update	Remove
Andy	Contributor	Update	Remove
Brandon	Contributor	Update	Remove
Brian	Contributor	Update	Remove
Cara	Contributor	Update	Remove
Chris	Contributor	Update	Remove
Daniel	Contributor	Update	Remove
Gregory	Voting Member	Update	Remove
Hal	Task Team Data Lead	Update	Remove
James	Contributor	Update	Remove
Jeff	Task Team HSI Lead	Update	Remove
Jeremiah	Admin	Update	Remove
John	Contributor	Update	Remove
Judith	Contributor	Update	Remove



Project Collaboration Forums Tool

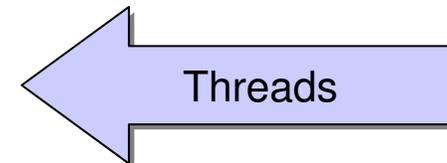


Forum	Threads	Posts	Last Post
bpel-taskteam BPPEL-Discussions	1	3	2005-09-12 14:05
nesi-moa Facilitate discussions on NESI MOA	1	1	2006-01-03 09:14
peo-c4i-esc May 16-17 PEO C4I + ESC	5	6	2005-06-16 13:48
proposed-task-teams Forum to propose creation of a task team	1	1	2005-07-21 17:23
task-team-charter-dev Discussions on development of the NESI Charter	2	2	2005-07-28 14:03
task-team-data Forum for the Data Task Team	3	5	2005-09-22 13:47
task-team-hsi Forum for the HSI Task Team	2	6	2005-11-18 12:55
task-team-ipv6	4	7	2006-01-23 16:09



Similar discussion topics can be grouped into forums

Topic	Topic Starter	Replies	Last Post
Meeting Minutes 11 Jan 2006 TSTT	William	1	2006-01-18 08:57
Task Team Purpose/Role/Responsibilities	Murray	1	2005-12-15 07:38
Meeting Minutes from 23 Nov 2005	Judith	0	2005-11-28 08:24
Meetings	Nick	2	2005-11-21 14:35
Welcome to Task-Team-Technical-Strategy	Nick	0	2005-11-21 14:22
Technical Strategy Announcements	Nick	0	2005-11-21 14:18
Welcome to Task-Team-Technical-Strategy	Nick	0	2005-11-21 11:14



Discussion topics are contained in threads

By: Nick
 RE: Meetings -> Announcement -> Minutes [reply]
 2005-11-21 14:35
 Meeting Minutes NESI Multi-Service Technical Strategy Task Team
 16 November 2005

NESI Data Strategy Task Team: Multi-Service representatives participated in the weekly NESI Data Strategy Meeting held on 16 November 2005 at 1300.

Attendees:
 Laura Lynne A - Navy
 - Army
 Nick - Navy
 Judy - AF
 Willie AF
 Peter Army

Summary of the topics discussed are provided below:

Broader charter for the NESI Data Strategy Team - The recommendation was made and NESI Data Strategy Team members agreed that we are working more than data strategy and we should be calling our team the NESI Technical Strategy Team. While we work the NESI guidance documentation and bringing the Army and DISA onto the team, we propose that the NESI Technical Strategy Team title be adopted.



Posts to a discussion topic are displayed on a single page



Project Collaboration Trackers Tool



Trackers are action items related to project collaboration

Tracker	open	total	Description
Change Requests	231	416	Change Requests which have been submitted for NESI
Received CR's	0	0	This holds any CR's received from the public site
Task Team Requests	2	2	Requests for new task teams go here
Technical Task Team Action Items	0	0	Action Items for Technical Task Team



List of tracker items within the tracker, can be filtered

ID	Summary	Open Date	Assigned To	Submitted By
<input type="checkbox"/> 20	Add a volume to the NESI series	* 2005-06-09 13:27	Nick	Cara
<input type="checkbox"/> 24	Need clear definition of Platform, Vendor	* 2005-06-09 13:32	Nick	Cara
<input type="checkbox"/> 30	Replace references to JTA with DISR	* 2005-06-09 13:42	Nick	Cara
<input type="checkbox"/> 34	Capability on Demand	* 2005-06-09 13:52	Nick	Cara
<input type="checkbox"/> 35	Need mention of php, especially since there is a lot of useful open source projects that use php	* 2005-06-09 13:52	Jeff	Brian
<input type="checkbox"/> 36	Add Java applets and ActiveX guidance	* 2005-06-09 13:54	Jeff	Brian
<input type="checkbox"/> 37	Distributed Operations	* 2005-06-09 13:54	Nick	Cara

Assigned To: (?)
 [Nick Slavos (Admin)]
 State: (?)
 [Open]
 Summary: (?)
 [NO reference to terms in Figure 3]

Priority: (?)
 [2]
 Resolution: (?)
 [Accepted]

Detailed description

Source:
 "This figure (Figure 3) illustrates the combination of the Node Platform Infrastructure (NPI), node-specific application business logic, services, data stores, and application user interfaces"

Comments:
 "there is NO reference in Figure 3 to any of these things except the NPI. "

Use Canned Response: (?)
 [None (Admin)]

OR Attach A Comment: (?)

Followup:

Message

Date: 2005-11-01 10:44
 Sender: Hal Beumer
 node section removed



A single tracker item with history and user common



Project Repository Document Manager Tool



Shared hierarchically structured document, file, and URL repository

<ul style="list-style-type: none"> Charter and Bylaws (3) Meetings (0) NESI Documents (0) PowerPoints (1) Project Management Console (0) Task Teams (3) <ul style="list-style-type: none"> BPEL (0) CCB (3) Charter Development Task Team (3) Collaboration Task Team (7) Data (3) Doc Components (13) Evaluation (11) HSI (13) IPV6 (7) ISP (0) IWS (0) Mediation (2) NESI-X (2) Part 5 (0) Portals (3) Security (23) Technical Strategy Task Team (1) Toolbox (0) Uncategorized Submissions (1) WOTE (22) 	<p>Security</p> <table border="1"> <thead> <tr> <th style="text-align: center;">Document</th> <th style="text-align: center;">Date</th> <th></th> </tr> </thead> <tbody> <tr> <td>NESI Security Document <i>Almost ready for 1.2 release.</i></td> <td>Mon, 01 Aug 2005 16:39:28 -0700</td> <td>[Edit]</td> </tr> <tr> <td>PKI for Dummies <i>PKI presentation from Loraine</i></td> <td>Fri, 01 Jul 2005 14:32:49 -0700</td> <td>[Edit]</td> </tr> <tr> <td>Security Task Team Plan <i>This is an MS Word file that contains the plan for the task team and template for a workpackage.</i></td> <td>Fri, 01 Jul 2005 14:35:33 -0700</td> <td>[Edit]</td> </tr> <tr> <td>SecurityTaskTeamPlan10 <i>Provided additional perspectives and guidance and also added section on Identity Management from IDM SME</i></td> <td>Mon, 11 Jul 2005 18:00:57 -0700</td> <td>[Edit]</td> </tr> <tr> <td>Security Task Team Plan 13 <i>Completed final edits for v1.2 review with the exception of IDM section.</i></td> <td>Thu, 14 Jul 2005 16:28:29 -0700</td> <td>[Edit]</td> </tr> <tr> <td>Security Task Team Plan 14 <i>Security Chapter for 1.2</i></td> <td>Mon, 01 Aug 2005 16:59:19 -0700</td> <td>[Edit]</td> </tr> <tr> <td>Security Task Team Plan 15 <i>Integrated Web Services Piece and cleanup IDM section</i></td> <td>Thu, 04 Aug 2005 16:28:04 -0700</td> <td>[Edit]</td> </tr> <tr> <td>Security Task Team Plan 17 <i>Resolve [#358] XML Web Services Security: Sequence Diagram</i></td> <td>Thu, 08 Dec 2005 08:50:06 -0800</td> <td>[Edit]</td> </tr> <tr> <td>Security Task Team Plan 18 <i>Updated G8119 to add additional rationale and evaluation criteria</i></td> <td>Fri, 09 Dec 2005 14:18:57 -0800</td> <td>[Edit]</td> </tr> <tr> <td>Security_Task_Team_Plan_19.doc <i>Update to resolve Tracker Issues for release 1.3.</i></td> <td>Mon, 16 Jan 2006 16:13:44 -0800</td> <td>[Edit]</td> </tr> </tbody> </table>	Document	Date		NESI Security Document <i>Almost ready for 1.2 release.</i>	Mon, 01 Aug 2005 16:39:28 -0700	[Edit]	PKI for Dummies <i>PKI presentation from Loraine</i>	Fri, 01 Jul 2005 14:32:49 -0700	[Edit]	Security Task Team Plan <i>This is an MS Word file that contains the plan for the task team and template for a workpackage.</i>	Fri, 01 Jul 2005 14:35:33 -0700	[Edit]	SecurityTaskTeamPlan10 <i>Provided additional perspectives and guidance and also added section on Identity Management from IDM SME</i>	Mon, 11 Jul 2005 18:00:57 -0700	[Edit]	Security Task Team Plan 13 <i>Completed final edits for v1.2 review with the exception of IDM section.</i>	Thu, 14 Jul 2005 16:28:29 -0700	[Edit]	Security Task Team Plan 14 <i>Security Chapter for 1.2</i>	Mon, 01 Aug 2005 16:59:19 -0700	[Edit]	Security Task Team Plan 15 <i>Integrated Web Services Piece and cleanup IDM section</i>	Thu, 04 Aug 2005 16:28:04 -0700	[Edit]	Security Task Team Plan 17 <i>Resolve [#358] XML Web Services Security: Sequence Diagram</i>	Thu, 08 Dec 2005 08:50:06 -0800	[Edit]	Security Task Team Plan 18 <i>Updated G8119 to add additional rationale and evaluation criteria</i>	Fri, 09 Dec 2005 14:18:57 -0800	[Edit]	Security_Task_Team_Plan_19.doc <i>Update to resolve Tracker Issues for release 1.3.</i>	Mon, 16 Jan 2006 16:13:44 -0800	[Edit]
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Project Repository Source Code Manager Tool



Configuration control system for large number of files, documents, and source code

File	Rev.	Age	Author	Last log entry
Parent Directory				
Data-Independence-v3.ppt	1.1	6 months	hbeumer	*** empty log message ***
Data_Intro.ppt	1.1	6 months	hbeumer	*** empty log message ***
Definition of data.ppt	1.1	6 months	hbeumer	*** empty log message ***
EDI_Pitch.ppt	1.1	6 months	hbeumer	*** empty log message ***
Greg.ppt	1.1	6 months	hbeumer	*** empty log message ***
LiveRisky.ppt	1.1	6 months	hbeumer	*** empty log message ***
Mediation_Mini_Pitch.ppt	1.1	6 months	hbeumer	*** empty log message ***
NESI and Data Modified.ppt	1.1	6 months	hbeumer	*** empty log message ***
NESI and Data.ppt	1.1	6 months	hbeumer	*** empty log message ***
NesiOverview_4.ppt	1.1	6 months	hbeumer	*** empty log message ***
SYS -ontology mapping.vsd	1.1	6 months	hbeumer	*** empty log message ***

Show only files with tag: Module path or alias:

General options

Sort files by: case-insensitive: Hide files in Attic:

Sort log by: Show line numbers:

Diff format:



Project Repository **File Release Tool**



Storage for released packages and executables

Latest File Releases				
Package	Version	Date	Notes / Monitor	Download
nesisitestatus	v1.2.1	August 31, 2005		Download
[View All Project Files]				



Recent file releases are listed on the project summary page

Package	Release & Notes	Filename	Date	Size	D/L	Arch	Type
nesisitestatus							
v1.2.1			2005-08-31 10:54	190 KB	2	i386	.zip
	NESISiteStatusMonitor-1_2_1.zip						
v1.2			2005-07-25 13:31	190 KB	4	i386	.zip
	NESISiteStatusMonitor-1_2.zip						
v1.1			2005-07-21 16:11	195 KB	0	i386	.zip
	NESISiteStatusMonitor-1.1.zip						
v1.0			2005-05-05 15:25	311 KB	3	i386	Other
	NESISiteStatusMonitorV1_0_0.msi						
Project totals	4	4		886 KB	9		



File releases are organized by package



Collaboration Site Summary



- Supports project development collaboration
 - Forums and Trackers are primary collaboration tools
 - Repository toolset supports collaborative development



Project/CS Business Issue



- The Business sections explains the problems with taking receipt of deliverables and new business practices for addressing why we need a CS
 - The Problem
 - The Changed Business Model
 - Secure Business Process
 - Compliance Checks
 - Web Services
- The Intellectual Rights and Restrictions sections provides an understanding of data rights. It's important to understand the licensing issues associated with handling deliverables in the CS
 - Intellectual Rights and Restrictions



The Problem



- Data rights are mostly ignored
- Not enough to just list the data rights in Section K: Representation and Certifications
- Need to spell out what data rights apply and not just reference the DFARS clause
 - Lesson learn teaches us no one pays attention
- Problems with Deliverables include:
 - No checks when taking receipt of deliverables
 - When they do check, it's generally too late to take action
- We need a way to ensure the data rights are being properly reinforced in our deliverables
- CS with compliance tools can provide the means for enforcement
 - Need a CDRL Tracker capability w/electronic signature
- We need a CHANGED business model....



The CHANGED Business Model



- Goal is to reinforce the data rights in all deliverables
- Focused on Gov't purpose & unlimited rights only
- Want to change the way we take receipt of deliverables using the advanced features of the CS
- This new business model includes security features, such as logging, audit trails, electronic signature and compliance checking
- Web service support will provide the required openness for engaging with industry
 - Must get agreement to maintain fair advantage
 - Fair business practices are required
- Use of Compliance tools to accept or deny deliverables



Secure Business Process



- Features include:
 - Government authorization required for access
 - PKI/CAC for authentication
 - Private & Public Code Check in/out process
 - Project administrator privileges
 - Electronic signature on trackers
 - Site & Project Traceability
 - Advanced Logging features
 - Secure Logging – permissions based & can not delete
 - Site, project and user Audit trails
 - Logging for access, files, projects
 - Project logging to see who posted what & when
 - Checkout status to see who is downloading what & when
 - Virus checking enabled
- This process is under review by SPAWAR 02 Contracts and Legal



Compliance Checks



- Checks can be added to SCM on check-in
 - Right now only checks for viruses
 - Need to add simple checks for “dirty words”
 - Need to catch words like:
Property of.., Proprietary, Copyright, Patent, ...
 - Reject bad commits
 - Compliance tool can audit deliverables against the data rights stated in the original SOW Appendix B
- Implemented by acceptance procedures



Web Services



- NESI CS behaves as a web service in the Navy Enterprise
- Supports an XML SOAP interface
- Supports federated searches to other sites that support web services
- Currently defining the metadata for discovering public artifacts



Guidance to Computer Software Intellectual Rights and Restrictions



Contract Clauses



- Technical Data and Computer Software Rights in Contract Clauses and Provisions-
 - DFARS 252.227-7013, 7014, 7016, 7017, 7019, 7020, 7025, 7026, 7027 and 7037
 - SBIR Contracts additional SBA rules apply – 252.227-7018
 - Technical Data Rights in Commercial Items are defined in 252.227-7015, and 227.7202-1 (commercial computer software licenses)
- Patent Clauses: FAR 52.227-11, -12
- Recommend everyone become familiar with these clauses
 - Need to understand what data rights mean
 - Need to understand the impact to posting deliverables to a CS



License Rights Defined



- DFARS 227.7103-4
 - License rights impacting OA
 - Unlimited rights – NO restrictions on Gov't right to use, distribute, modify, release, reproduce, perform, display or disclose technical data pertaining to items, components, or processes developed exclusively at Gov't expense
 - Gov't Purpose Rights – when an item, component, or process is developed with mixed funding, the Gov't may use, distribute, modify, release, reproduce, perform, display or disclose the data pertaining to such items, components, or processes within the Gov't without restriction but may release or disclose the data outside the Gov't only for Gov't purposes



Contracts & Data Rights



- **Pre-Award Phase – For competitive evaluation**
 - Sections K, L, & M
 - Section K contains a list of Government rights
 - Sections L, M should address data rights in terms of risk only
 - Section L – Instructions for offerors for proposal preparation
 - Section M – Evaluation criteria
- **Post-Award Phase – For execution**
 - Specific SOW
 - SOW part of RFP – includes Appendix B: Applicable Data Rights List
 - CDRLs & DIDs
 - Must include CDRL to use the CS to post deliverables
 - Unlimited rights require no label
 - Government Purpose rights requires label



Contract Data Requirement List



- CDRLs need to be specific regarding contract deliverables
 - Data rights & DIDs
 - Using CS
- Examples of guidance language for CDRL:
 - All deliverables will be posted to the NESI CS repository.
 - Contractors must post Appendix B: Data Rights List to the CS
 - Contractor must inform the Gov't if there are any changes to the Section K in writing
 - Contractors must follow the DIDs for defining standard software documentation content & format



Data Item Description (DID)



- The purpose of the DID is twofold: Content & Format
- We need an aggregated policy that provides specific guidance on what standard (s) to use (like ForceNet)
- Lots of relevant standards: IEEE/EIA (12207.0, 12207.1, 12207.2), J-STD-016, DI-MCCR-80700
- Provides the basis for communications between acquirer & developer for how to format all of the required software lifecycle documents
- We also need to decide what documentation to standardize on...Lots of documentation – should only pick what you really need



Lessons Learned



- Most failures are in the execution phase of contracts!
- Need guidance statements for CDRLs
- Should be addressing Risk in Section L & M, not Data Rights
- Need to collectively decide on what DIDs to use
- Open source may have licensing issues
- Algorithms need to be investigated for the SBIR community
- CDRL rights enforcement **reduces the liability** of content misuse



Wrap-up

- Current Status
- Site Technology reuse
- Lessons Learned



CS Current Status



- 170+ users and growing
- 38 active CS projects
 - 12 NESI Working Group Projects
 - Documentation configuration control
 - Sample code
 - Site tools
 - Users from Navy, Air Force, Army, and DISA
 - NESI-WG, JTRS, CLIP, JTM, JXF, XTCTF, XCOP, NESSO...
- Contracts and legal see CS as a new way to do business
- SPAWAR SBIR to elevate CS to DoD SBIR community
- NESI-CS is an active growing community gaining acceptance as a valuable toolset



CS Site Technology in Reuse



- Cost Savings
 - Sourceforge commercial licensing (170 users) → \$255,000
 - GForge modifications 4 man-months (unlimited users) → \$55,000
- JTRS Information Repository
 - Adopted GForge
 - Reusing SSAA documentation
 - Sharing design ideas
 - Assist JTRS-IR technical staff
- PMW 180
 - In discussion for potential NESI-CS duplication
- SBIR community looking at public space within CS to reuse existing intellectual property for building future prototypes



NESI-CS Lessons Learned



- Sourceforge technology has been proven successful in the distributed open source development community
 - Similar practices and procedures can be adopted in a more closed environment
- Accepting liability for using open source software versus an expensive and restrictive commercial product
- It is cost effective to incorporate new capabilities and customizations into an open source tool
- Finding more and more ways to define reuse
- The value of reuse is being defined by the community i.e. SBIR
- Data Rights matter



Questions?



Backups



GPL Issues



- GForge is GPL (GNU Public License)
 - No warranty
 - Consumer accepts full liability
 - Free to make modifications and additions to source code
 - If redistributed, source code must be available to those who want it
 - Derivative works must also carry GPL



CollabNet & Sourceforge Comparison



- Both are commercial products
- Sourceforge 3.x is PHP based
 - Easy to customize
 - PHP does not do well in complex enterprise applications
- Sourceforge 4.x and CollabNet are J2EE
 - Changes must come from vendor
- Sourceforge can be installed at customer's site
- CollabNet is hosted by vendor
- Similar toolsets but Sourceforge allows for custom fields in trackers ← very powerful