



Navy e-Learning (NeL) Content Hosting Introduction



eSolutions for Sailor and Fleet Readiness

NeL at a Glance

- NeL provides a web based training production environment for administration, documentation, tracking, and reporting of Navy training programs, includes:
 - Classroom and online events
 - Training content development and delivery

NeL at a Glance (cont.)

- NeL hosts over 8,900 courses and supports:
 - Navy "A" and "C" schools with e-learning content and learning management services
 - Training continuum consisting of professional development, General Military Training (GMT), professional military education, and refresher training
 - Individual learning opportunities, available 24/7, for Active Duty, Reservist, Department of Defense (DOD) Civilians/Contractors, Foreign Nationals, Navy Bureau of Medicine and Surgery (BUMED) and others with a Common Access Card (CAC)
 - Content up to SCORM 2004 4th Edition within the Ashore environments and Afloat (once AILE 3.3 is developed later this year)

NeL Hosting Environments/Services

- Content is hosted for users in four distinct web based environments
 - NIPR (unclassified - ashore and afloat)
 - SIPR (unclassified/classified - ashore)
 - SIPR (unclassified/classified - afloat) – only submarine support
- All NeL sites are CAC enforced
- Sponsors are responsible to ensure Developers and Testers have a CAC prior to requesting accounts
 - NeL does not provide CAC sponsorship
 - Refer to <http://www.cac.mil/> for additional information regarding DoD CAC

NeL Hosting Environments/Services (cont.)

- Content Hosting and Report Management Service (CHaRMS) (NIPR)
 - Web-based service that provides Sponsors, Developers, and NeL with the ability to track content through lifecycle (start of contract, hosting, revisions, retirement)
 - Provides real-time reporting of content status
 - Currently in BETA testing. Until fully deployed, users need to contact NeL Content Team directly to provide all relevant contract/course information

NeL Hosting Environments (cont.)

- NeL Test Track (TT) (NIPR/SIPR)
 - Web based service for Developers to use for initial content design and development
- Government Content Acceptance Testing (GCAT) (NIPR/SIPR)
 - Final functionality acceptance prior to hosting on Production delivery site
 - Prior to content hosting, checklists/CHaRMS approval are required and transcripts will be verified by NeL
 - Primary environment for Sponsor validation and approval of content

NeL Hosting Environments (cont.)

- NeL Production Environment (NIPR/SIPR) – training management and delivery of content to Learners (end-users)
- NeL Afloat (AILE) Environment (NIPR/SIPR) – delivery of content to Fleet Learners afloat. Installed on approximately 165 ships

NeL Environment Capabilities Matrix

	Production & GCAT	Afloat	SIPR
LMS	ATLAS 11.0.6 (Oracle DB)	<ul style="list-style-type: none"> • NIAPS 2.4 - AILE 3.2.5.1 	ATLAS 11.0.6 (Oracle DB)
Content	<ul style="list-style-type: none"> • Rustici SCORM Engine v2011.1 - Support up to SCORM 2004 (4th ed.) 	<ul style="list-style-type: none"> • Rustici SCORM Engine v2007.1 - Supports up to SCORM 2004 (3rd ed.) 	<ul style="list-style-type: none"> • Rustici SCORM Engine v2011.1 - Support up to SCORM 2004 (4th ed.)

- NeL Team is preparing to test NIAPS 3.0 and AILE 3.3 upgrade which includes Rustici SCORM Engine v2011.1
- Deployment anticipated for later this year
- Content to be deployed to NeL Afloat environment needs to be packaged as SCORM 2004 3rd Edition until new AILE version is fully deployed

Content Sponsor (Role and Responsibility)

- Content Sponsor
 - The Government Sponsor is the person/organization ultimately responsible for validity of material and life cycle maintenance of content. This “DOES NOT” include organizations such as SPAWAR or NETC, whom facilitate contracts for development
 - Primary point of contact for content under development and communications with NeL Content Management Team
 - Shall review and obtain understanding of Content Hosting Requirements
 - Must ensure Developers have/obtain a CAC
 - Responsible for all communications with developers

Content Sponsor (Role and Responsibility) - cont.

- Must obtain CHaRMS account and request access for Developers as needed
- Work with Developers to ensure all requirements for CHaRMS are fulfilled and hosting stages finalized
- Must obtain Test Track account for review and verification of course content during course development (includes subject matter and functionality)
- Must obtain GCAT account for final functional testing of course within the AtlasPro application
- Ensure course is actually tested by Sponsor representative and/or Subject Matter Expert (SME) in GCAT, functions as required, and generates a course completion transcript record as expected

Content Sponsor (Role and Responsibility) - cont.

- Complete and Submit GCAT Content Testing Checklist/s
- Once a course is hosted, the Sponsor is responsible for content life cycle support to include:
 - Content relevancy
 - Technical accuracy
 - Operability within changing environments/immerging technologies
 - JAVA, FLASH updates that impact media presentation
 - DOD Certificates that expire after 3 years
 - Client-side browser/plug-in version issues that arise over time

NOTE: Content Sponsors are responsible for proper content functionality to include spelling, grammar, subject matter correctness, course sequencing, navigation, completion roll-up, and scoring, if applicable.

Content Developer (Role and Responsibility)

- Content Developer
 - Work collaboratively with Sponsor during development process
 - Obtain CHaRMS account and provide required data for all hosting stages (Developer role)
 - Obtain NeL Test Track account
 - Import and update content within Test Track as necessary, from prototype development to final subject matter/functional review/acceptance
 - Ensure proper SCORM sequencing, navigation, bookmarking, course completion roll-up logic/code, plug-in, workstation/browser configuration, and required course functionality are achieved
 - Troubleshoot and remedy 'ALL' course issues as contracted
 - Notify Sponsor when ready to release content from Test Track to GCAT for 'FINAL' Sponsor acceptance testing

Content Development Process

- Prior to introducing into the NeL content hosting process

Phase 1 – Prototype Delivery		
	Developer Required Deliverables	Learning Center Requirements
Function	<ul style="list-style-type: none"> • Prototype Lesson • Screens Representing Design Strategies • IMDP Proof of Concept 	<ul style="list-style-type: none"> • General Instructional Strategy & Interactivity • GUI Functionality • Page Layout and Color Scheme • Usability
Phase 2A – AIM LOM High Level Storyboards		
	Developer Required Deliverables	Learning Center Requirements
Function	<ul style="list-style-type: none"> • AIM LOM Element Outline • Conceptual Storyboards • Delivery Method Resources (ILT, IMI, CAI, SIM, LAB) 	<ul style="list-style-type: none"> • Lesson/Section Structure • Content Outline Instructional Validity • Interactivity Descriptions • Media Ideas
Phase 2B – Detailed Storyboards		
	Developer Required Deliverables	Learning Center Requirements
Function	<ul style="list-style-type: none"> • GUI Programmed Lesson/Section Content (no media) • Detailed Media Descriptions • AIM LOM Content • Trainee Guides (TGs)/Information Sheets • Lesson Plans (LPs) 	<ul style="list-style-type: none"> • Lesson/Section Technical Accuracy • GUI Developed Detailed Media Descriptions • Programmed GUI Functionality
Phase 3A – Alpha Review		
	Developer Required Deliverables	Learning Center Requirements
Function	<ul style="list-style-type: none"> • GUI Programmed Lesson/Section Content (with media) • Customer Storyboard (Phase 2A) Comments Addressed • Finalized AIM LOM Content • Trainee Guides (TGs)/Information Sheets • Lesson Plans (LPs) 	<ul style="list-style-type: none"> • Storyboard (Phase 2A) Comment Verification • Review of Media (Interactivity & Functionality)
Phase 3B – Beta Review		
	Developer Required Deliverables	Learning Center Requirements
Function	<ul style="list-style-type: none"> • Finalized Lesson/Section Content with Alpha (Phase 3A) Comments Addressed 	<ul style="list-style-type: none"> • Verification Alpha (Phase 3A) Comments Addressed

Deliverables

- Required deliverables by Sponsors and Developers to host content on NeL
 - ZIP Content Package per course, module, or topic...depending on ISD structure breakdown of a given course
 - Course_metadata.xml file created utilizing metadata editor in NeL Test Track
 - Test Track Log Files
 - Assessment Answer Key(s) for all quizzes, knowledge checks, pre-tests, post-tests, simulations, interactive components, gaming expectations, etc.
 - NeL Checklists – as required in CHaRMS to fulfill role responsibilities
 - Media source files shall be provided to the content Sponsor per Statement of Work (SOW) requirements (NeL Team currently does not maintain these files)

Content Processing Stages w/Phase Overlapped

Phase I : Contracting, Initial Contact, and Content Forecasting

Phase II : Development & Design Begins

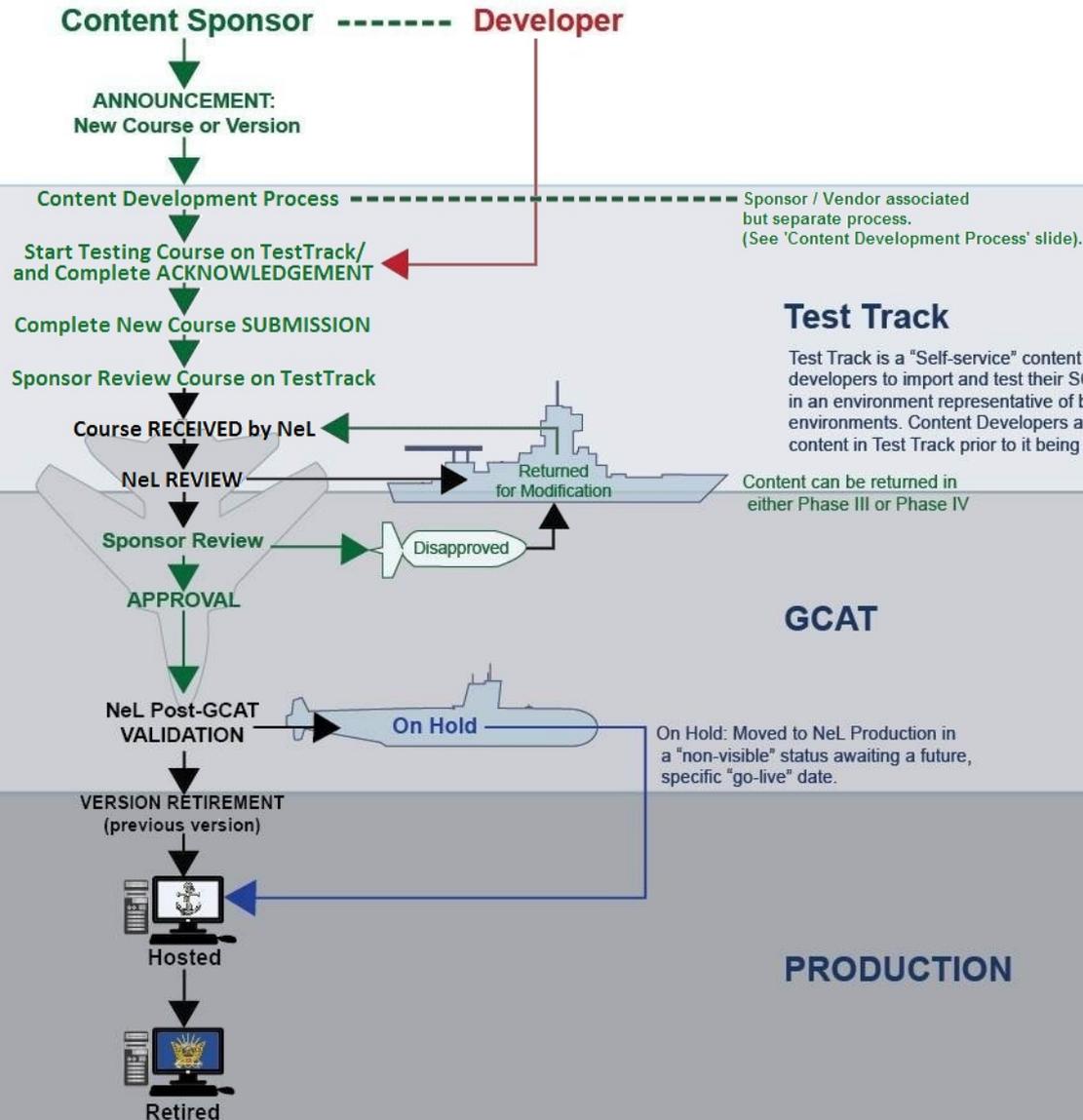
Phase III : Content Validation & Testing

Phase IV : Sponsor Approval Validation (GCAT Testing)

Phase V : NeL Validation

Phase VI : Hosted

Phase VII : Course Retirement



Delivery Success

- Delivery Success
 - Careful testing is key to content delivery success
 - Relies on identification and correction of all issues early in the development/testing process
 - Be specific as possible when asking questions regarding functionality of content. Although development instruction falls outside scope of support the NeL Team is available for guidance
 - When testing, it either works as intended or doesn't. Tests failure will prevent content from being hosted
 - Target audience should always considered during content development

Delivery Success (cont.)

- Adhering to World Wide Web Consortium (W3C) standards of Open Web Platform design during content development can greatly reduce browser and browser versioning issues for end user
- IE compatibility mode cannot always be relied on, especially within the NeL shipboard environments
- Sponsor involvement during development and testing phases ensures timely delivery of a product that functions as desired
- In our experience there are no COTS or GOTS content authoring systems that will generate SCORM packages which meet many of the complex SCORM sequencing, navigation, and course completion requirements 100%
- Developers need to be thoroughly versed in SCORM, HTML, CSS, JavaScript, Flash AS, Java, etc. dependent on course content

Contact Information

- Contact Information
 - NeL account request forms: (MUST HAVE A CAC)
 - CHaRMS, GCAT or Test Track accounts -
<https://www.aas.prod.nel.training.navy.mil/>
 - NeL Content Lead: 850-473-5893; DSN: 753-5893
 - NeL Account Management: 850-473-5907; DSN: 753-5907
 - NeL CHaRMS management: 850-473-5895; DSN: 753-5895

Contact Information – cont.

- CD/DVD submission addresses

NIPR

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SIPR

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Inside package will have:
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