



# Navy e-Learning (NeL) Content Hosting Introduction

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**PEO**  **EIS**  
ENTERPRISE INFORMATION SYSTEMS  
DEPARTMENT OF THE NAVY



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, and 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 Environment Information

- Content is hosted for users in four distinct web based environments
  - NIPR (unclassified - ashore)
  - NIPR (unclassified - 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 Services

- Content Hosting and Report Management Service (CHaRMS) (NIPR)
  - Web-based service provides Sponsors (Primary and Secondary), Developers, Reviewers, and NeL the ability to track content 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

- NeL Test Track (TT) (NIPR/SIPR)
  - Web based service for Developers to test 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 verified by NeL
  - Primary environment for Sponsor validation and approval of content

# NeL Hosting Environments

- 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	<b>ATLAS 11.1.1-6.0 (Oracle DB)</b>	<ul style="list-style-type: none"> <li>• <b>NIAPS 2.4</b></li> <li>- <b>AILE 3.2.5.1</b></li> </ul>	<b>ATLAS 11.1.1-6.0 (Oracle DB)</b>
Content	<ul style="list-style-type: none"> <li>• <b>Rustici SCORM Engine v2011.1</b></li> <li>- <b>Support up to SCORM 2004 (4th ed.)</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Rustici SCORM Engine v2007.1</b></li> <li>- <b>Supports up to SCORM 2004 (3rd ed.)</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Rustici SCORM Engine v2011.1</b></li> <li>- <b>Support up to SCORM 2004 (4th ed.)</b></li> </ul>

- 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

- The Government Sponsor is the person/organization ultimately responsible for validity of material and life cycle maintenance of content
- 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

- Roles and Responsibility (con't.)
  - Must obtain CHaRMS account and request access for Developers as needed
  - Work with Developers to ensure all requirements for CHaRMS are fulfilled and life-cycle stages finalized
  - Must obtain TestTrack 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 LMS
  - 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

- Roles and Responsibility (con't.)
  - 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/plugin 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, as applicable.

# Content Developer

## ■ Role and Responsibility

- Work collaboratively with Sponsor during development process
- Obtain CHaRMS account and provide required data for hosting stages as applicable
- Obtain NeL TestTrack account
- Import and update content within TestTrack 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 TestTrack to GCAT for FINAL Sponsor acceptance testing

# Content Reviewer

- Role and Responsibility
  - Work collaboratively with Sponsor during testing stages
  - Obtain NeL TestTrack account, test content as necessary for Sponsor
  - Obtain CHaRMS account and provide testing feedback as applicable
  - Participate in discussion threads as part of the content Team

# Content Development Process

- Prior to introduction into the NeL content hosting process

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

# Deliverables

- Required deliverables from 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 TestTrack
  - TestTrack 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 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

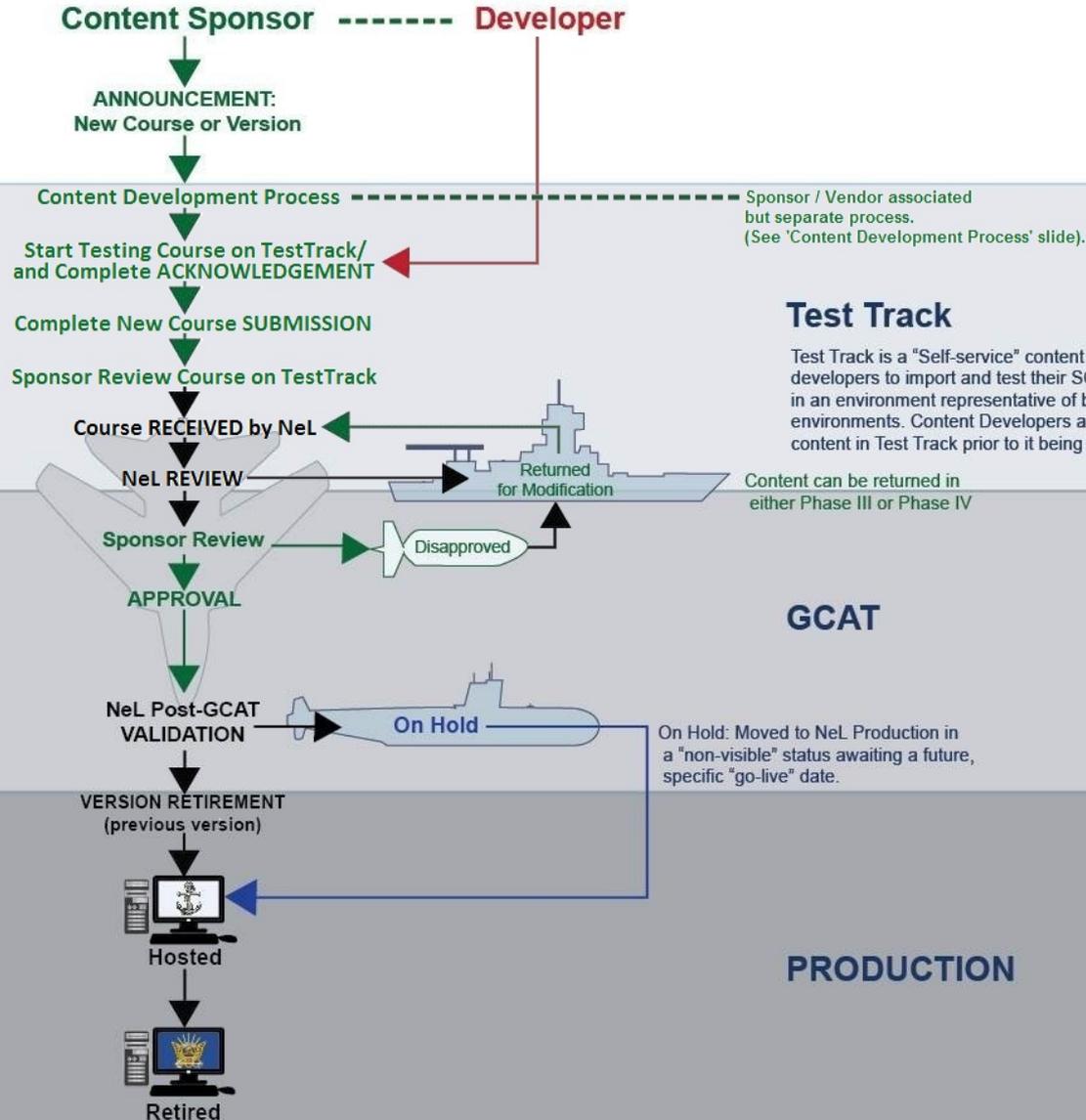
Phase III : Content Validation & Testing

Phase IV : Sponsor Approval Validation (GCAT Testing)

Phase V : NeL Validation

Phase VI : Hosted

Phase VII : Course Retirement



## Legend

Sponsor Processes

Developer Processes

NeL Processes

NeL Hold

## Test Track

Test Track is a "Self-service" content testing environment that allows developers to import and test their SCORM content package prototype(s) in an environment representative of both NeL ashore and afloat run-time environments. Content Developers are required to successfully test their content in Test Track prior to it being hosted on NeL.

Content can be returned in either Phase III or Phase IV

## GCAT

On Hold: Moved to NeL Production in a "non-visible" status awaiting a future, specific "go-live" date.

## PRODUCTION

# 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 as specific as possible when asking questions regarding content functionality; 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; failure to properly test will prevent content from being hosted
  - Target audience should always be 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 users
- 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. depending on course content

# Contact Information

- Contact Information
  - NeL account request forms: (MUST HAVE A CAC)
    - CHaRMS, GCAT or TestTrack 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**

**Navy e-Learning Content Team  
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### **SIPR**

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