



# Navy e-Learning (NeL) Content Hosting Introduction

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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 delivery

## NeL at a Glance (cont.)

- NeL hosts over 14,000 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 and SCORM 2004 3<sup>rd</sup> Edition Afloat environments

# 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, including the test environments
- Sponsors are responsible to ensure Developers and Reviewers 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 Reports 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
  - Provides notifications for content movement or discussion threads

# NeL Testing Environments

- NeL Test Track (TT) (NIPR/SIPR)
  - Web based service for Developers to test content design and development
  - Primary environment for suggested Sponsor testing of subject matter correctness, content flow, spelling, grammar, and proper completion
  
- Government Content Acceptance Testing (GCAT) (NIPR/SIPR)
  - Final functionality review and acceptance prior to hosting on Production delivery site
  - Prior to content hosting, CHaRMS approval is required and transcripts verified by NeL

# NeL Hosting Platforms

- NeL Ashore 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 12.1.0-8.0 (Oracle DB)</b>	<ul style="list-style-type: none"> <li>• NIAPS 2.4</li> <li>- AILE 3.2.5.2</li> </ul>	<b>ATLAS 12.1.0-8.0 (Oracle DB)</b>
Content	<ul style="list-style-type: none"> <li>• Rustici SCORM Engine v2011.1</li> <li>- Supports up to SCORM 2004 (4th ed.)</li> </ul>	<ul style="list-style-type: none"> <li>• Rustici SCORM Engine v2007.1</li> <li>- Supports up to SCORM 2004 (3rd ed.)</li> </ul>	<ul style="list-style-type: none"> <li>• Rustici SCORM Engine v2011.1</li> <li>- Supports up to SCORM 2004 (4th ed.)</li> </ul>

- NeL Team is currently testing NIAPS 3.0 and AILE 3.3 upgrade which includes Rustici SCORM Engine v2011.1
- Content to be deployed to NeL Afloat environments must 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 obtain and review 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 begin the Content Hosting tracking process
  - Work with Developers to ensure all requirements for CHaRMS are fulfilled and life-cycle stages finalized
  - Obtain TestTrack account for testing and verification of course content during course development (includes subject matter, technical accuracy, 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

- Role and Responsibility (cont.)
  - Complete and Finalize Sponsor Approval GCAT Content Review Checklist(s) in CHaRMS
  - Responsible for content life cycle maintenance, refer to NETCINST 136, Section 8 for periodicity and Formal Course Reviews (FCR):
    - Ensure Content relevancy, Technical accuracy, and Operability within changing environments/emerging 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

# 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
  - Notify Sponsor when ready to release content from TestTrack to NeL for GCAT Review

# 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
  - Obtain NeL GCAT account, test content as necessary for Sponsor
  - Participate in CHaRMS 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

Content Sponsor ----- Developer

ANNOUNCEMENT:  
New Course or Version

Content Development Process

Start Testing Course on TestTrack/  
and Complete ACKNOWLEDGEMENT

Sponsor Test / Validate Course on TestTrack

Complete New Course SUBMISSION

Course RECEIVED by NeL

NeL REVIEW

Sponsor Review

APPROVAL

NeL Post-GCAT  
VALIDATION

VERSION RETIREMENT  
(previous version)

Hosted

Retired

Sponsor / Vendor associated but separate process.  
(See 'Content Development Process' slide).

## 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

## Legend

Sponsor Processes

Developer Processes

NeL Processes

NeL Hold



# 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 when asking questions regarding content functionality; although development instruction falls outside scope of support the NeL Team is available for guidance
  - When testing, content either works as intended or does not; failure to properly test could prevent hosting

## 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>
    - <https://nel.navy.mil>
  - NeL Content Leads: 850-473-5893; DSN: 753-5893  
850-473-5904; DSN: 753-5904
  - NeL Account Management: 850-473-5907; DSN: 753-5907
  - NeL CHaRMS Management: 850-473-5904; DSN: 753-5904

# Submission Addresses

- CD/DVD submission addresses

## NIPR

**Navy e-Learning Content Team**

**ATTN: Content Management**

**NETPDTC/CSRA BLDG 839 RM  
115**

**6490 Saufley Field Road**

**Pensacola, FL 32509-5239**

## SIPR

**DEPARTMENT OF THE NAVY**

**COMMANDING OFFICER**

**NETPDTC Code N8323**

**6490 Saufley Field Road**

**Pensacola, FL, 32509-5239**

**OFFICIAL BUSINESS**

**Inside package will have:**

**ATTN: NeL NETPDTC Team**