

24TH ANNUAL GLOBAL
NAUTICAL SYSTEMS

USER 
CONFERENCE

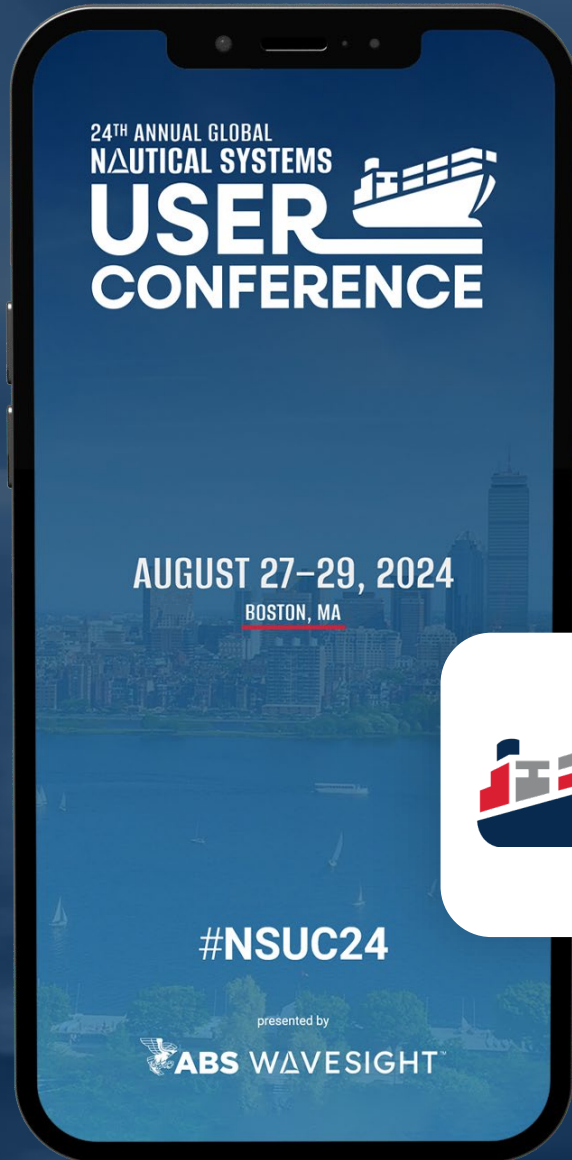
System Admin – Preparing to Upgrade

Antonios Panagiotis Theofanopoulos

9/12/2024

Presented by





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The more you use the app, the more points you earn. Winners will be announced daily.



Antonios Panagiotis Theofanopoulos

Manager, Professional Services

Antonios is leading the technical aspects of the PS Team, he manages the consulting team in America. He has 24+ year of experience in the software and maritime industry.

System Admin – Preparing to Upgrade

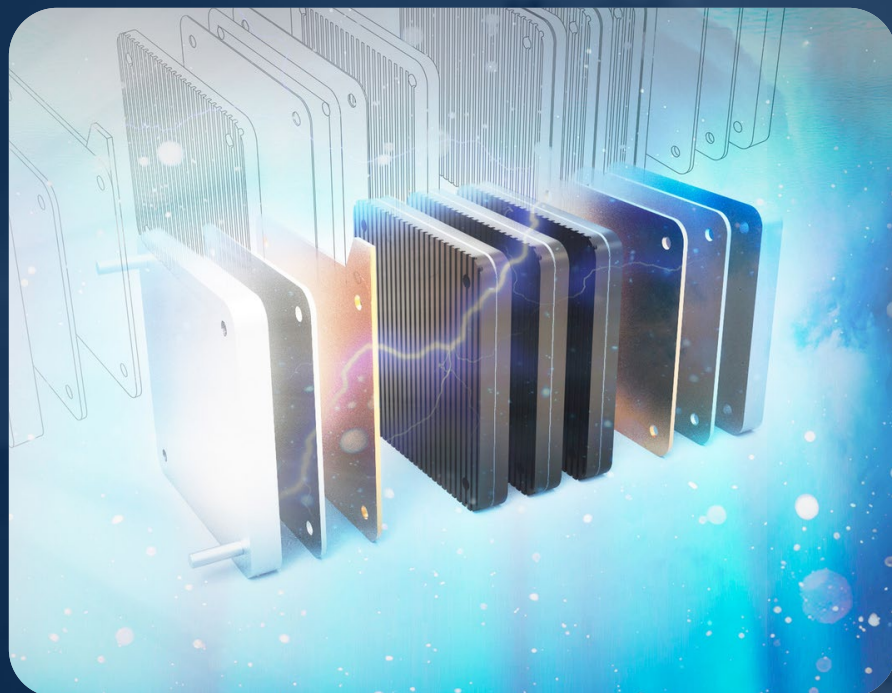
| | |
|---------------|---------------|
| AS-IS | 16:15 – 16:20 |
| TO-BE | 16:20 – 16:35 |
| 6.5.33.# | 16:35 – 16:40 |
| Upgrade Paths | 16:40 – 16:50 |
| Q & A | 16:50 – 17:00 |



AS-IS



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In Use Modules

Maintenance

Purchasing

Crewing

Payroll

HSQE

Drydock

DMS

Voyage Management

eLogs

Extras (Interfaces,
Reporting)



Vessel Certificates

DDK Management

Documents for Technical and HSQE

VM/MRV Reporting

eLogs

Extras (Interfaces, Reporting)



Current Infrastructure

- NSE Topology
 - Central
 - Office(s)
 - Vessel(s)
- Network Topology
- Server and Clients Specifications
- Software Specifications



Current Users

- Location
 - Central
 - Office(s)
 - Vessel(s)
- User Groups and Counts
- SME(s)
- Training Proximity



TO-BE



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New Modules

- Maintenance > Purchasing
- Maintenance > Purchasing > DDK
- Maintenance > Purchasing > HSQE
- Maintenance > Purchasing > HSQE -> DMS
- Crewing > Payroll
- Crewing -> Payroll -> HSQE
- > Interfaces
- > eLogs and or VM



New Features

- PMS > CM, TD, Failures, Surveys
- Purchasing > Contracts, Services' Hierarchy
- Crewing > Travel Request, Interfaces
- Payroll > Interfaces
- HSQE > Audits, IMDs, Vetting, Questionnaires
- > Vessel Certificates
- > DDK Management
- > Document Management
- > eLogs and/or VM



“New” Process(es)

Quoting Mark Twain:

“Continuous improvement is better than
delayed perfection.”

Business Processes need to be improved



New Infrastructure

- NSE Topology changes, adding
 - Office(s)
 - Vessel(s)
- Network Topology changes
 - Premises to Azure
 - RDP to AVD
- New Server(s) and Clients
- New Software Updates



“New” Users

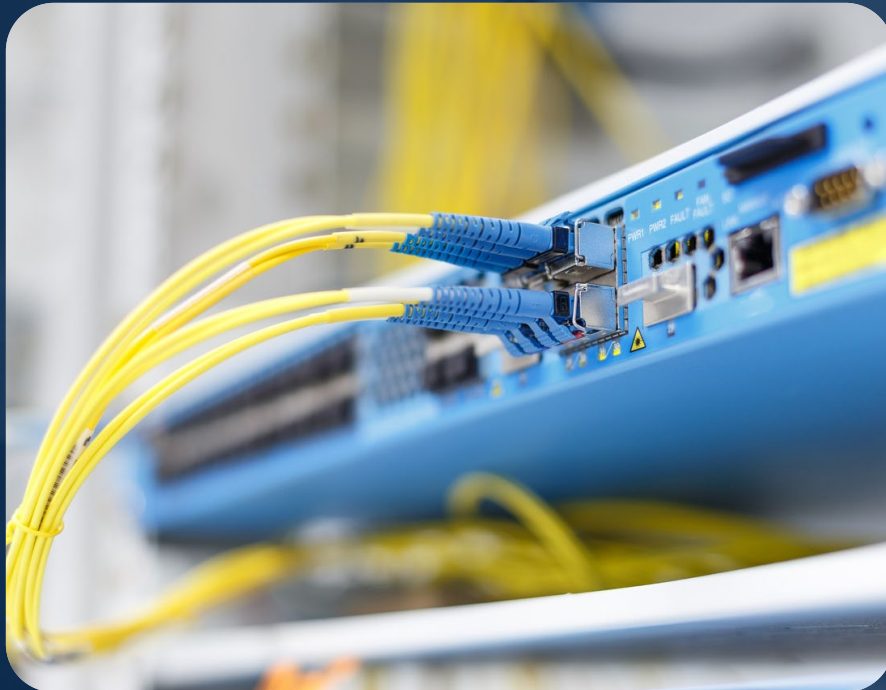
- Training Preparation
 - Audience
 - Material
 - Courses
 - Dissemination Method
- Users Helpdesk



6.5.33.#

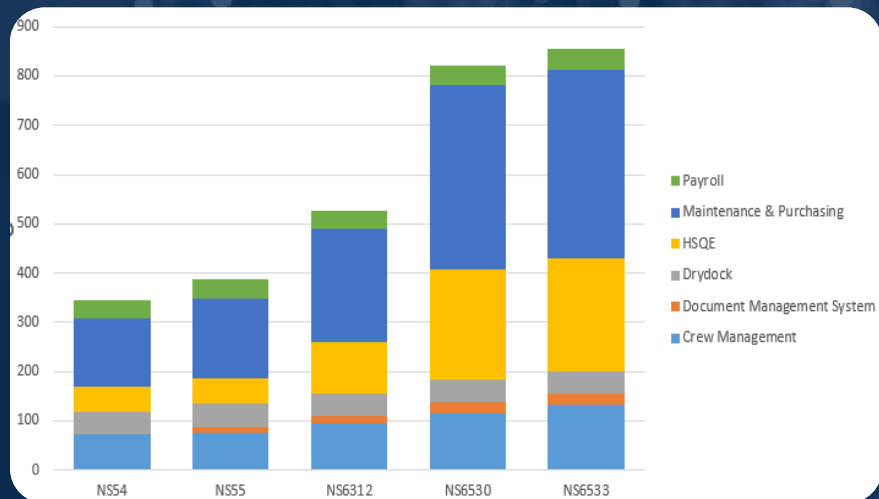
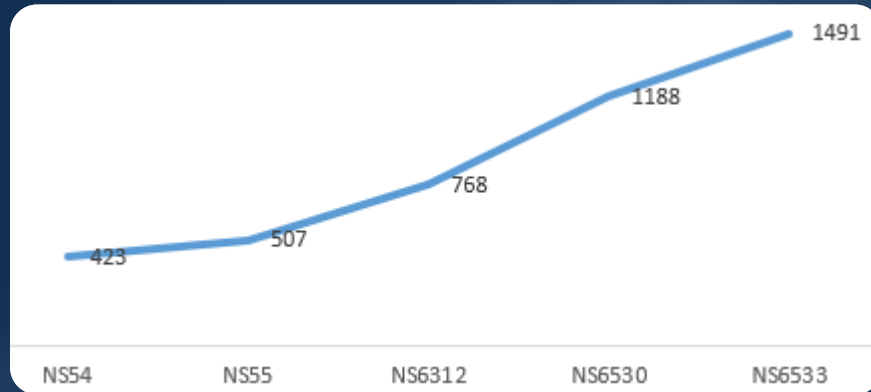


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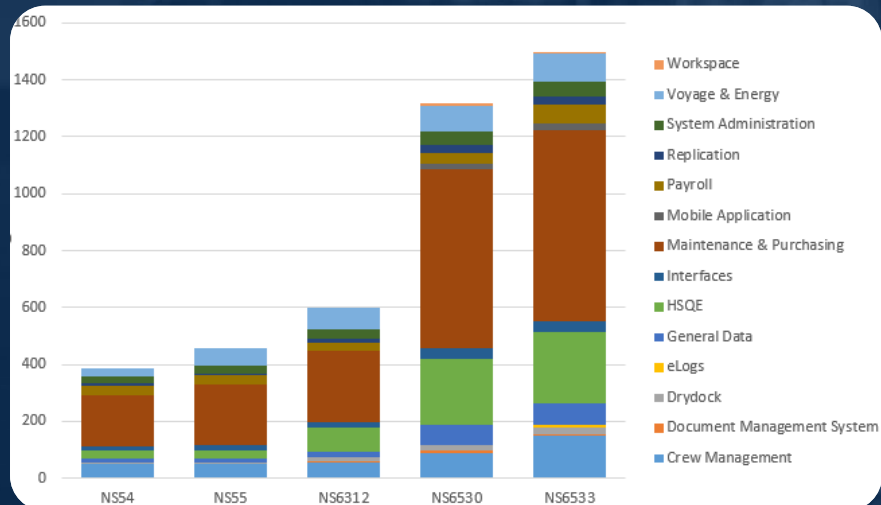
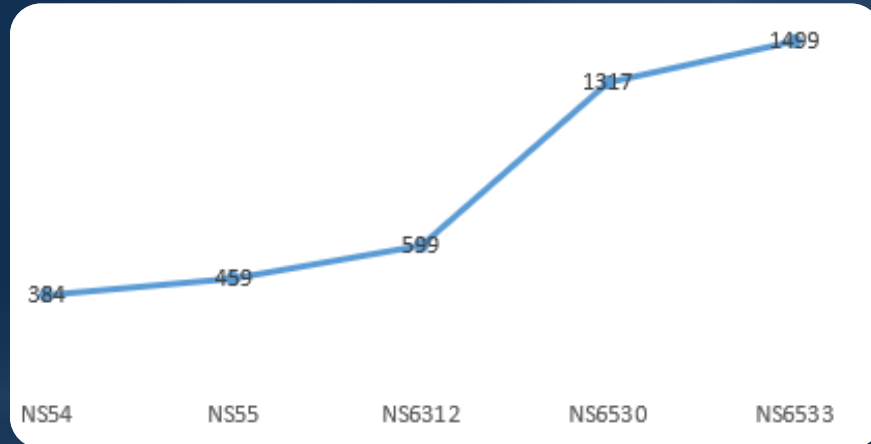
Technology Upgrade

- CouchDB (3.3.3)
- MySQL (V.8.0.36)
- MariaDB (V 11.4.2)
- Tomcat (9.0.86)
- Mobile
 - Ionic 7.8.1
 - Angular 16.2.12



New Authorizations

- Overall
- Maintenance and Purchasing
- Crew Management
- HSQE
- DMS



New System Preferences

- Overall
- Maintenance and Purchasing
- Crew Management
- HSQE
- DMS

Comprehensive Release Notes

Latest releases include comprehensive
release notes

Bookmarks

Introduction

Release Highlights

About ABS Wavesight™

Browser Considerations

Technology Upgrade

New Features and Enhancements

System Administration

Mobile Apps

Angular Upgrade

Purchase Order & Invoices Notification

List the Scheduled SIs & WOs under My Tasks of NS Vessel

Rich Text Editor Fixes

Bug Fixes

Crew and Payroll Manager

HSQE and Vetting Manager

Maintenance and Purchasing Manager

Voyager Manager

Document Manager

System Administration

Mobile Apps

Known Issue

Document Manager

Try the new, more intuitive Acrobat before transitioning seamlessly to this experience soon. [Learn more](#)

Try it now

New Features and Enhancements

Refer to this section for a list of new features and enhancements included in this release.

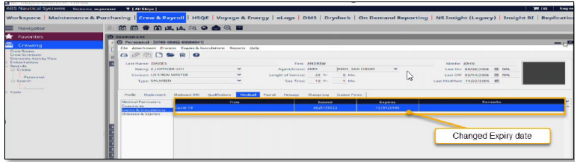
Crew and Payroll Manager

The following updates have been made to the *Crew and Payroll Manager* module. Access this module by selecting the **Crew and Payroll** tab from the top menu.

Entering Medical Records Without an Expiration Date

Medical records can now be entered without an expiration date; this is especially helpful when entering one-time vaccination details for seamen.

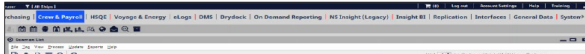
For reference, refer to ticket number: **ABS-003809**



Entering Graduation Dates

From the **Personnel—Profile** tab, updates have been made to accommodate any **Graduation** year to be entered. Previously, users could only enter a year between 1950-2025.

For reference, refer to ticket number: **ABS-009749**



Requirements: Server Software

Operating System

- Windows Server 2016 Datacenter (64Bit)
Tested on V 10.0.0.14393 Build 14393
- Windows Server 2019 Standard (64Bit)
Tested on V 10.0.017763 Build 7763
- Windows Server 2022 Datacenter Azure
Edition
Tested on V 21H2 Build 20348.2527

Database Server

- MSSQL Server 2016 (V 13.0.7029.3)
- MSSQL Server 2017 (V 14.0.3465.1)
- MSSQL Server 2019 (V 15.0.4375.4)
- MySQL (V 8.0.36)
- MariaDB (V 11.4.2)
- Tomcat (9.0.86)
- CouchDB (3.3.3)

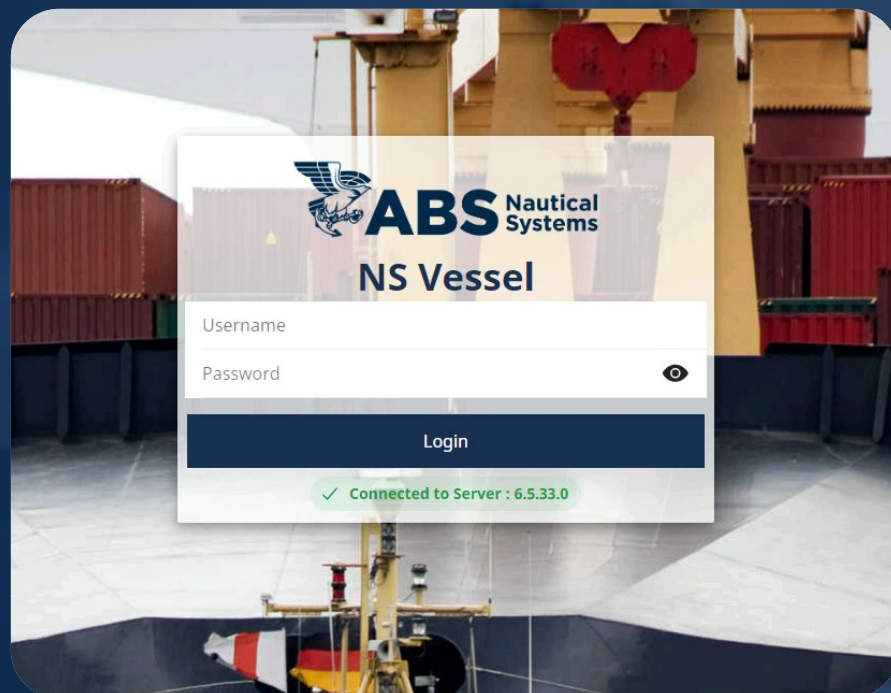
Requirements: Client Software

Operating System

- Windows 10 Enterprise (64Bit)
Tested on V 22H2 Build 19045.3930
- Windows 11 Enterprise (64Bit)
Tested on V 23 H2 Build 22631.3737

Browser

- Chrome 126
Tested on V 126.0.6478.127 (Official Build) (64-bit)
- Edge 126
Tested on V 126.0.2592.68 (Official Build) (64-bit)
- Firefox
Tested on V 65.0.1 – only applies to eLogs



NS Mobile

- Android 12 to Android 14.0
Tested on android version 13
- iOS 17+
Tested on iOS version 17

| Installer Type | Installation[6.5.32] | 6.5.33.zip [Tomcat & Couch] | 6.5.33-MariaDB.zip [Tomcat, Couch and Maria] | 6.5.33-MySQL.zip [Tomcat, Couch and MySQL] |
|----------------|----------------------|--------------------------------|-------------------------------------------------|-----------------------------------------------|
| MySQL | MySQL | Y | N | Y |
| MySQL | MSSQL | Y | N | N |
| Default[Maria] | Maria | Y | Y | N |
| Default[Maria] | MSSQL | Y | N | N |

| Component | Source Version | Target Version |
|-----------|----------------|----------------|
| MariaDB | 10.4.14 | 11.4.2 |
| MySQL | 5.7.38 | 8.0.36 |
| Tomcat | 8.5.77 | 9.0.86 |
| CouchDB | 2.1.0 | 3.3.3 |

Technical Upgrade

Technical Upgrade of MySQL/Maria, CouchDB and Tomcat:

Upgrading the version of the binaries is a significant enhancement that can improve performance, security, and compatibility with newer technologies.

Upgrade Paths



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Upgrade Modes

Test Run

- Run all interfaces
- Backup the DB to create a restore point
- Follow Upgrade Path
- Restore the database in the Training Environment, where the upgrade will be tested.
- Optional: Cut a vessel database and install it with the current version in the office for reverse compatibility testing

Production Run

- Run replication to retrieve and import files from ships, then dump and deliver to the ships
- Run all interfaces
- Backup the DB to create a restore point
- Disable all replication tasks
- Follow Upgrade Path
- Go Live Decision or Rollback

5.4 to 6.5.32.#

Create a 6.5.32.# Upgrade Environment

Upgrade 5.4 to the latest 5.4.0h-Update05

Dump the database

Stop Services in the destination environment

Create a blank database

Import the database

Exclude PM Job Statistics Scripts

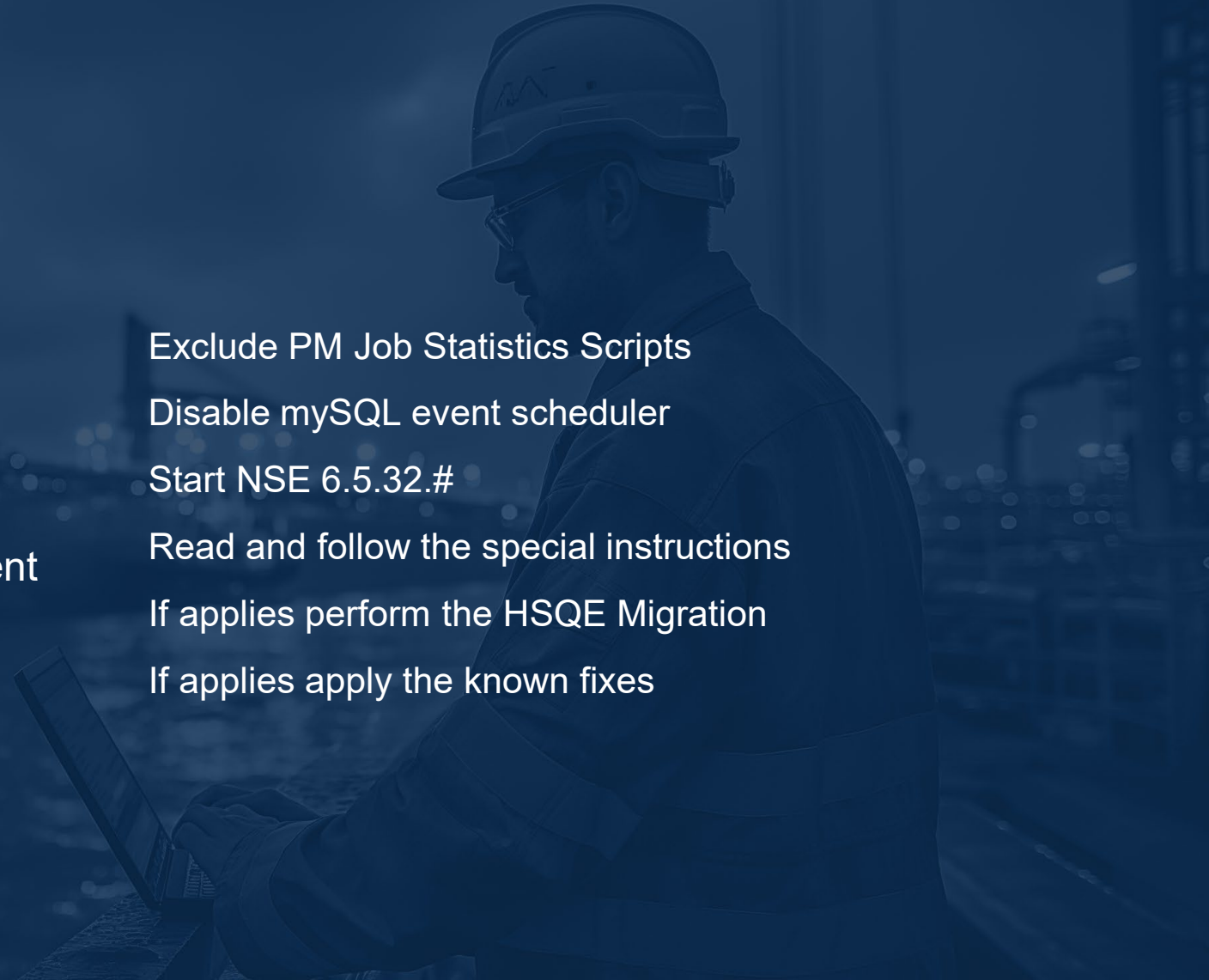
Disable mySQL event scheduler

Start NSE 6.5.32.#

Read and follow the special instructions

If applies perform the HSQE Migration

If applies apply the known fixes



6.2.1 to 6.5.32.#

Create a 6.5.32.# Upgrade Environment

Upgrade 6.2.1 to the latest 6.3.11

Run mySQL Password Utilities on the 6.2.1

Schema Validate and fix issues

Dump the database

Stop Services in the destination environment

Create a blank database

Import the database

Exclude PM Job Statistics Scripts


Disable mySQL event scheduler

Start NSE 6.5.32.#

Read and follow the special instructions


If applies perform the HSQE Migration

If applies apply the known fixes

 6.5.33 Special Instructions.pdf

 6.5.33 Technical Upgrade Instructions.pdf


 6.5.33.zip

 6.5.33-MariaDB.zip

 6.5.33-MySQL.zip

 Install-NS-6.5.33-2024-07-01.zip

 Install-NS-6.5.33-2024-07-01-MySQL.zip

 NS Enterprise 6.5.33 Hardware and Software Requirements.pdf

6.5.22 to 6.5.33

Unzip under Enterprise folder the

- 6.5.33.zip [Tomcat & Couch]
- 6.5.33-MariaDB.zip [Tomcat, Couch and Maria]
- 6.5.33-MySQL.zip [Tomcat, Couch and MySQL]

Run Patch using SystemUpdate.exe

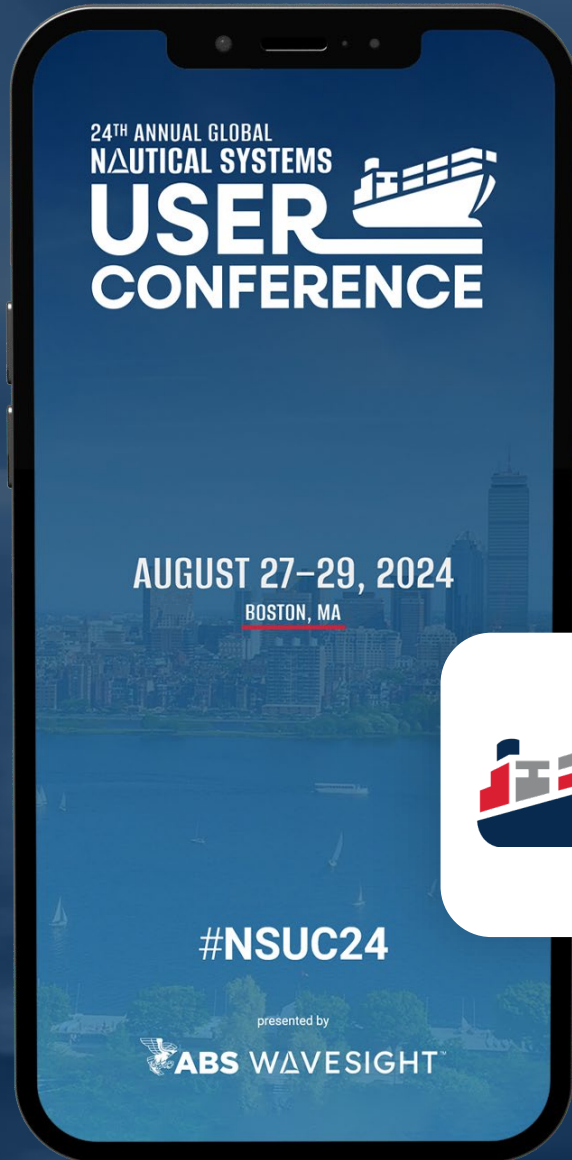
Follow Special Instructions if required



Q & A



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THANK YOU

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