System Admin & Replication Focused

Antonios Panagiotis Theofanopoulos

9/12/2024

Presented by

ABS WAVESIGHT™

GET ON THE LEADERBOARD!

REMINDER: You can earn points during this session! Submit your questions, answer polls and leave feedback on this presentation through the NSUC24 mobile app.

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

24TH ANNUAL GLOBAL NAUTICAL SYSTEMS USER CONFERENCE

ABS WAVESIGHT™

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.

24TH ANNUAL GLOBAL NAUTICAL SYSTEMS USER CONFERENCE

ABS WAVESIGHT™

Admin & Replication Focused

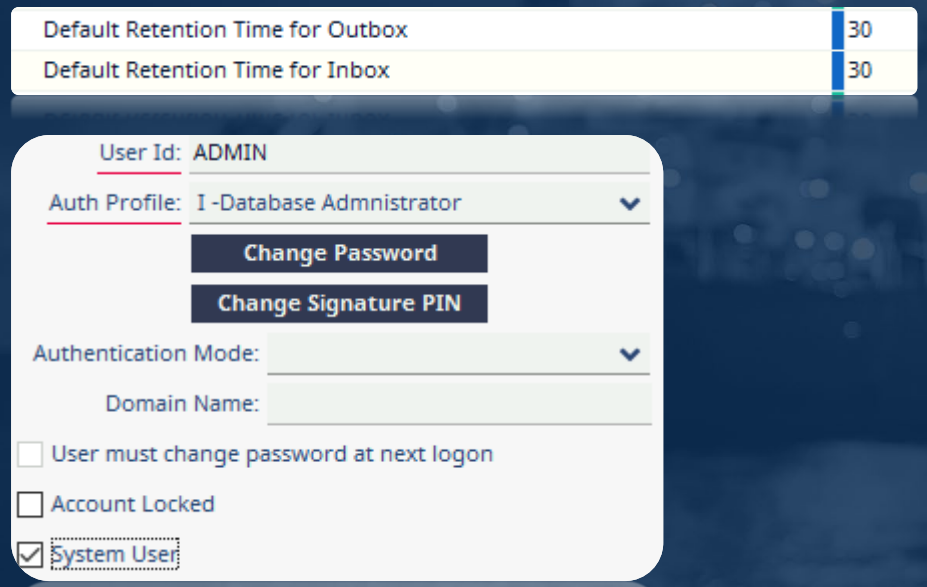
New Sys Admin Features	13:30 – 13:45
Replication	13:45 – 14:05
Sys Admin Tools & Resources	14:05 – 14:30
Configuration Tips	14:30 – 14:50
Q & A	14:50 – 15:00

New System Admin Features

ABS WAVESIGHT™

24TH ANNUAL GLOBAL NAUTICAL SYSTEMS USER CONFERENCE

ABS WAVESIGHT™



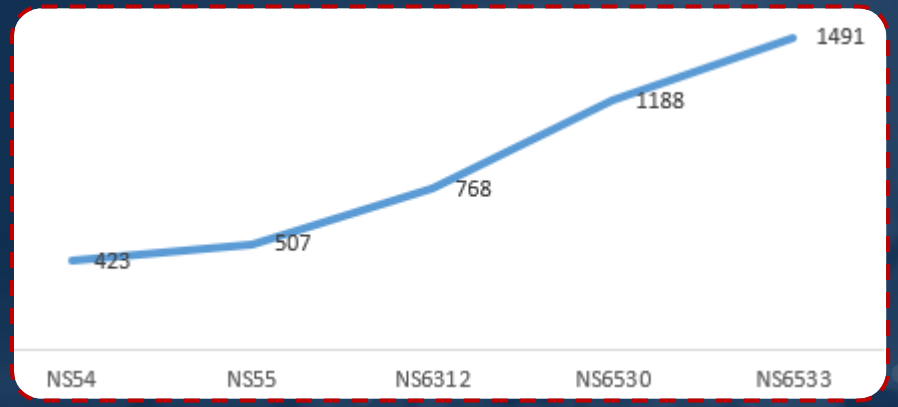
New Features

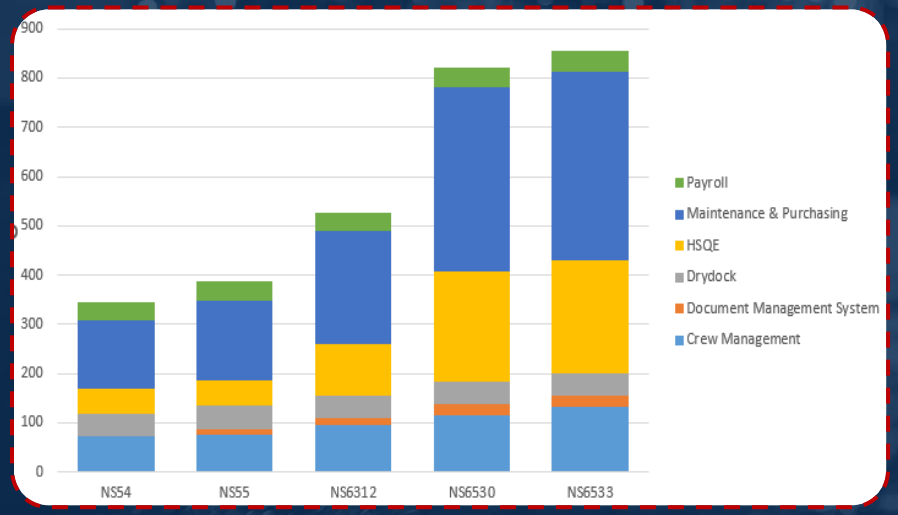
Default Retention Time for Inbox and Outbox

System User Feature

DMS Document Status Gadget (6.5.33.1)

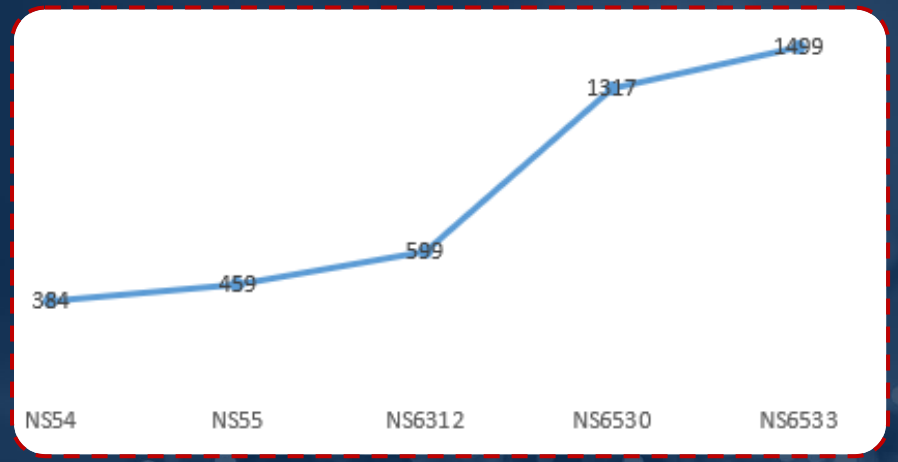
DMS Sync Functionality

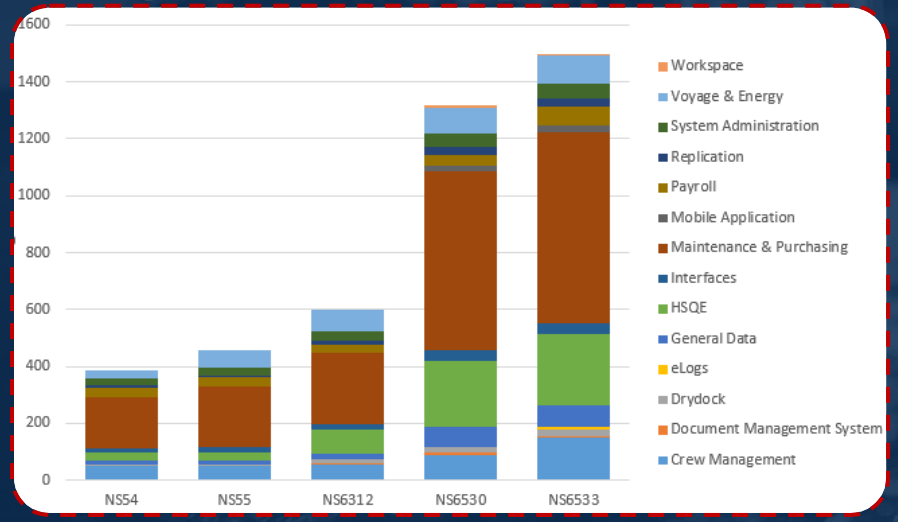




New Authorizations

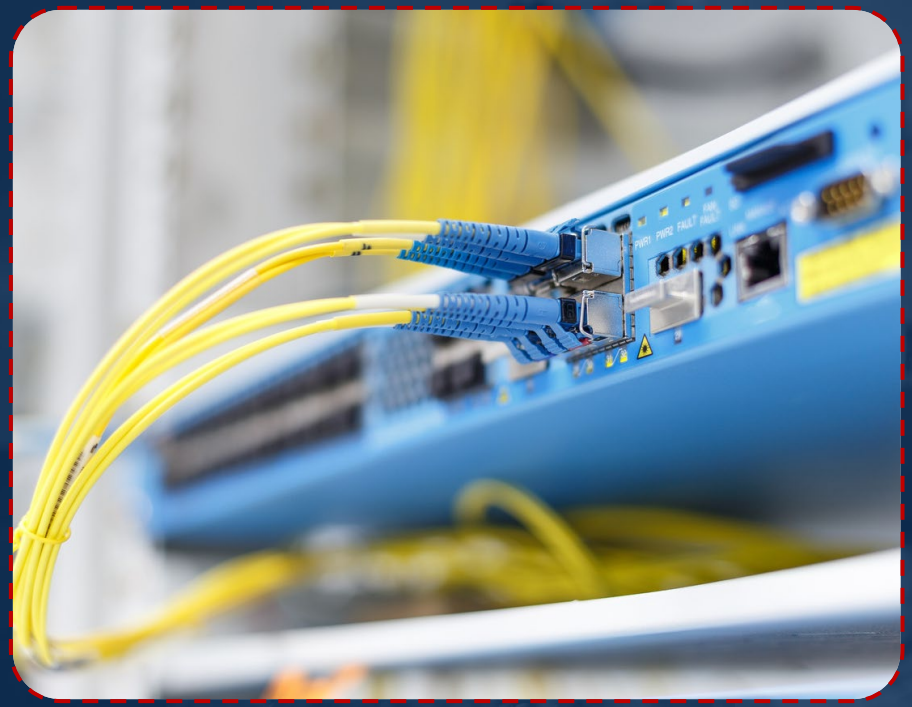
- Overall
- Maintenance and Purchasing
- Crew Management
- HSQE
- DMS





New System Preferences

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

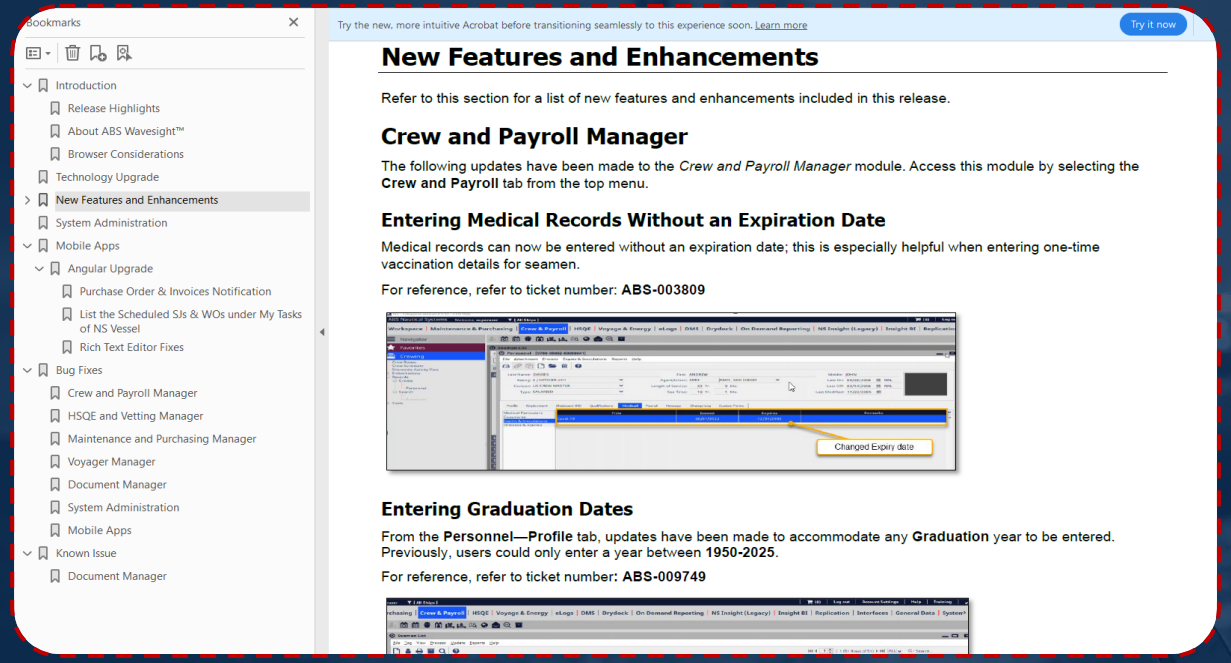


Technology Upgrade

- 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

24TH ANNUAL GLOBAL NAUTICAL SYSTEMS USER CONFERENCE

ABS WAVESIGHT™



Comprehensive Release Notes

Latest releases include comprehensive release notes

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)

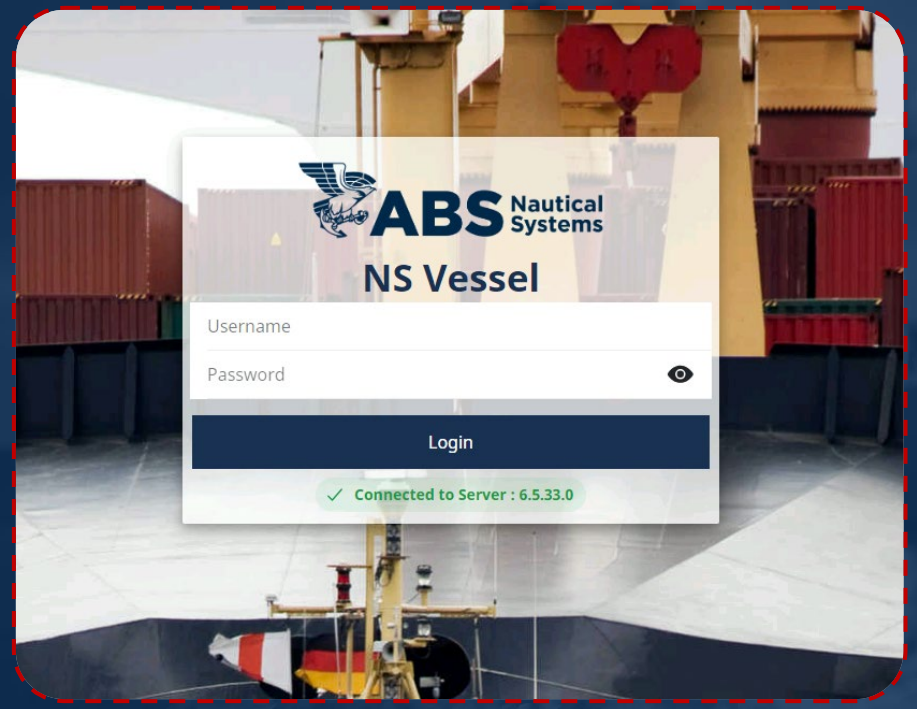
Requirements: Client Software

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:

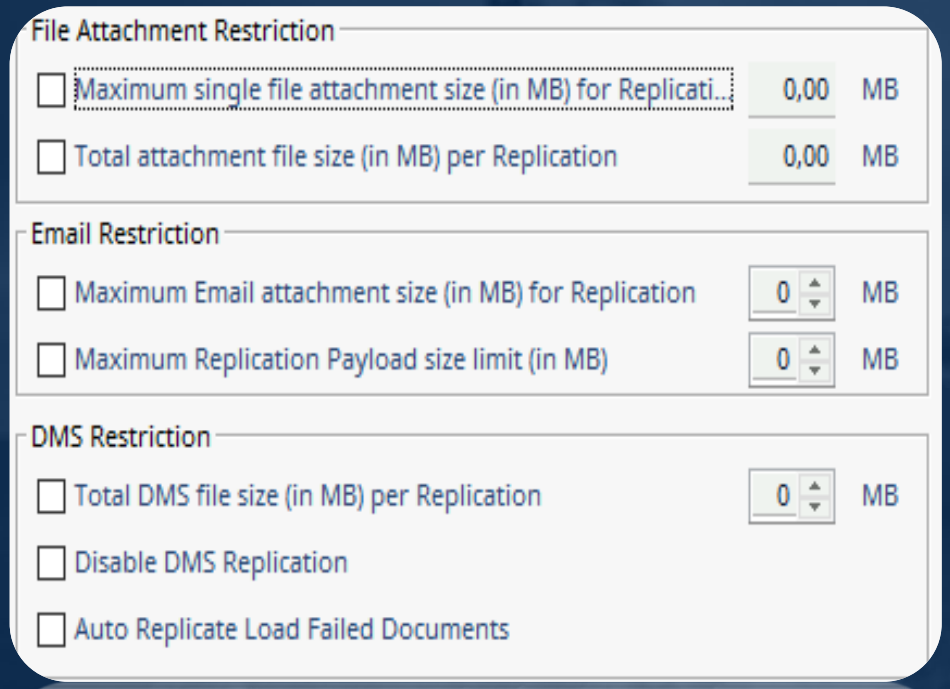
Upgrading the version of the binaries is a significant enhancement that can improve performance, security, and compatibility with newer technologies.

Replication

ABS WAVESIGHT™

Replication Setup and Monitoring

- Protocol Selection (email, FTP, SFTP, Generic)
- Site Setup, e.g. email sizing
- Attachments
- Frequency
- Scripting (TRLPurge, SysAuditPurge, DBLogPurge)
- External File Replication for distribution and consistency of memory settings, logging levels, configuration files, Jar Fixes, etc.
- Site Information
- Replication Notifications
- Replication Reports
- Event Viewer
- Replication Error Filtration



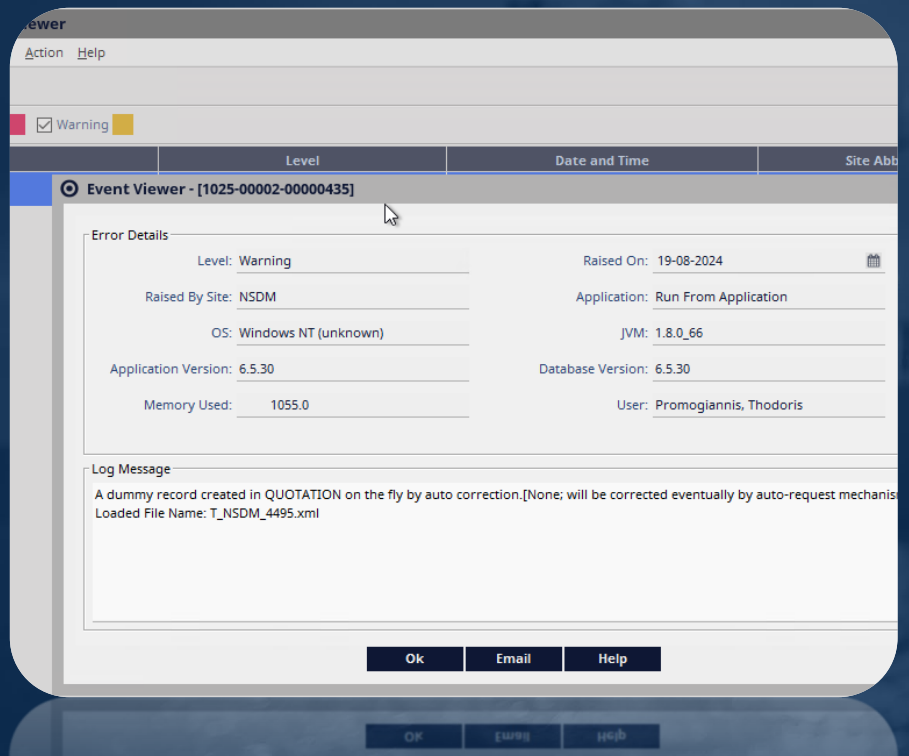
File Attachment Restriction

Issue: Files are missing because of big files size (replication protocol email pop3 smtp)

Resolution: Setup file size restrictions or email payload size restrictions.

24TH ANNUAL GLOBAL NAUTICAL SYSTEMS USER CONFERENCE

ABS WAVESIGHT™



Replication Event Viewer

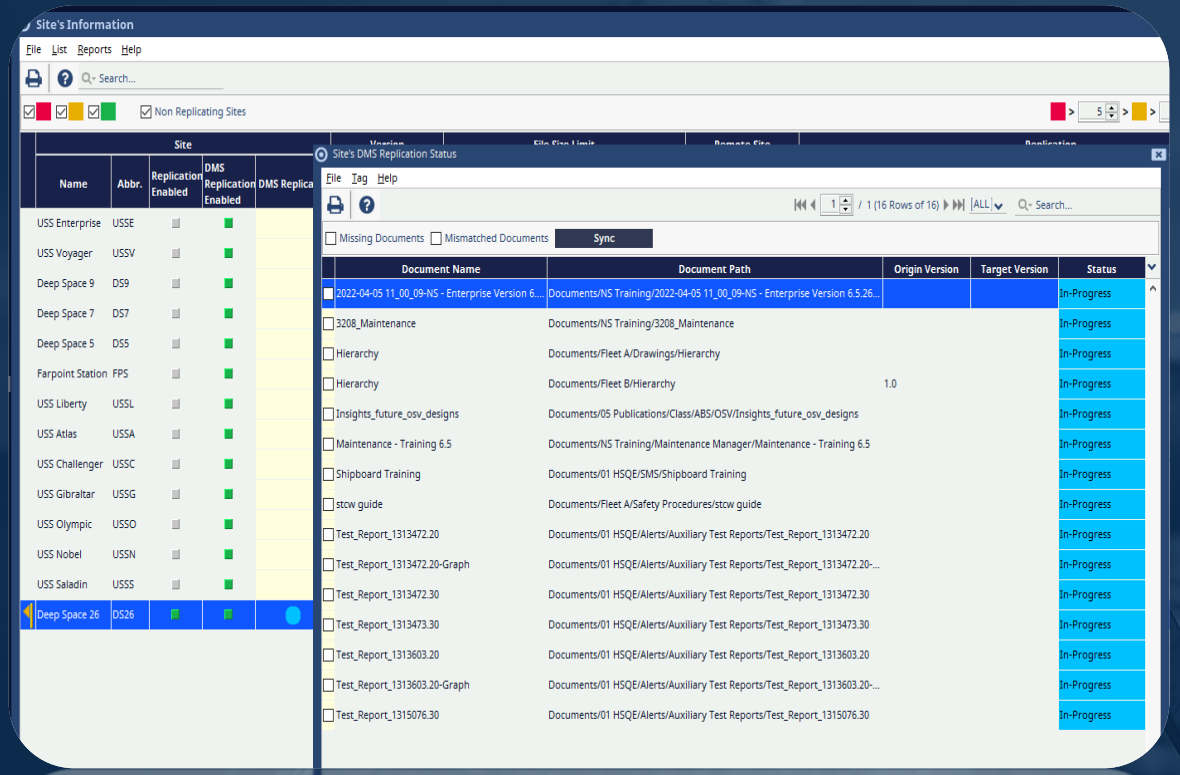
Replication Event Viewer provides all issues related to replication and are being records in the replication log.

Replication Troubleshooting

- Attachment Replication Queue
- Change Load Sequence
- Import/Export Replication File for Support
- Notifications
- One Time Only Dump
- Re-Queue Transaction File
- DMS
  - Export/Import
  - Load Failed Files
  - Replication Queue
- Maintenance (Purge)
- Debug Mode via NS5Settings.exe
- Missing Attachments

24TH ANNUAL GLOBAL NAUTICAL SYSTEMS USER CONFERENCE

ABS WAVESIGHT™

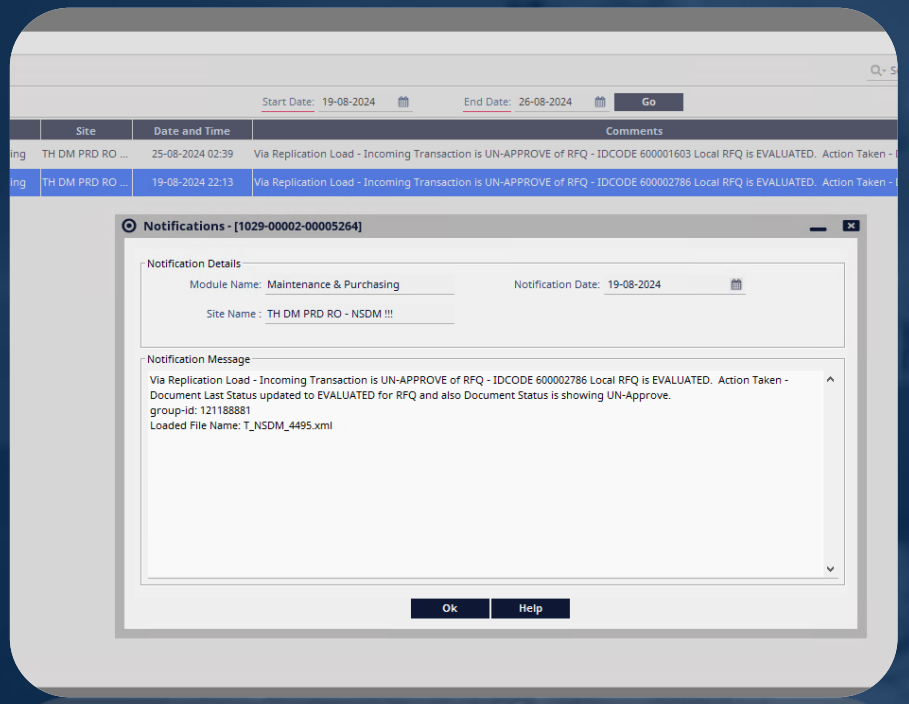


DMS Replication Status

Unser Site's Information the DMS Replication column is interactive and provides the replication status of the documents in DMS and allows the Sys Admin to manage and troubleshoot the issues from Central towards all other sites.

24TH ANNUAL GLOBAL NAUTICAL SYSTEMS USER CONFERENCE

ABS WAVESIGHT™



Replication Notifications

Replication Notifications are providing information on replication issues that have been identified by the system and addressed.

Replication Files and Scripting

Management of folder
(Replication, Log, etc.)

- Conserve Diskspace

Database Backups and Disaster Recovery

- Database Replication

Scripting in PowerShell vs cmd
to be continued

Sys Admin Tools & Resources

ABS WAVESIGHT™

Sys Admin Tools

TxnRelogger transfers data missing on vessel or site.
Use TxnRelogger utility for replication.
Setup the xml file containing what needs to be queued

Run TxnRelogger.exe sample-transaction-relog.xml

NS5Settings.exe allows to configure essentials for NSE without having to go through a series of configuration files.

- Notepad++ for text, scripts and xml
- WinMerge for configuration comparison
- Greenshot, Screenshot Tool
- DBeaver for database queries
- SFTP/FTP Tool

Samples Folder

Interfaces

- Import/Export Samples
- Import/Export xsd
- Import/Export json

Replication –Transport PowerShell scripts for replication validation

Excel Import Samples

NSMobile CouchDB Utilities

DBCredentialsEncrypter.exe

Sample properties files for the latest patch

Tools for issues' fixes

Other Folders

Folder META-INF

- db.properties, ns5-default-db-access.dbp, server.properties

Folder META-INF\external

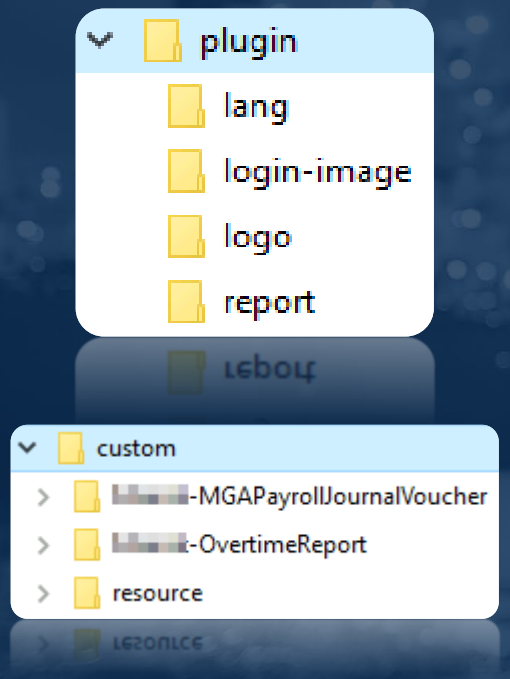
- Import File Template (Basic), Formatters xsl

Folder META-INF\lang\en

- captions.res, error_messages.res, report-definition.xml

Folder conf

- Interface configuration files
- vm.prop
- product.version
- mail.properties
- installation.details
- environment.properties
- eproc.properties



Custom Folders

Plugin Folder

- Caption Customizations
- Login Image Folder
- Logo Folder
- Customized Standard Report

Custom

Replication and Recalculation Scripting

Overnight

- Backup Database
- Purge (Sys Audit, Transaction Log, Messages)
- ABS Integration, Q88
- Replication Retrieve, Load, Dump, Deliver
- PM Recalculation
- CJ Recalculation
- Backup Database

Overday

- Replication Retrieve, Load, Dump, Deliver

Interface Execution

- Master Data Interfaces (on Central)
- Module Data Interfaces (on end user office)

Interface Scripting

Master Data Interfaces (on Central)

- Asset Management
- Accounts, Projects, Budget
- Currency Exchange
- Claims
- ABS Integration, Q88
- Crewing

Module Data Interfaces (on end user office)

- A/P, Accruals, Invoices
- Purchasing
- eProcurement
- Freight Forwarder
- Travel Request
- Inventory
- CM

Configuration Tips

ABS WAVESIGHT™

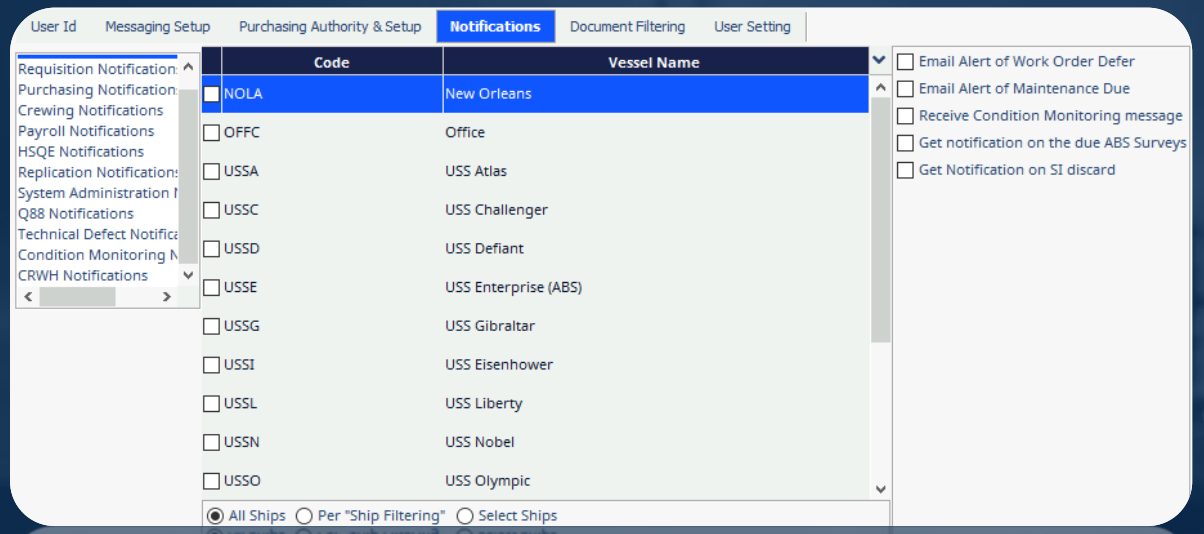
Authorization Profiles & Sys Pref

Check, verify and update

- Validate Profiles in use and hide profiles not in use
- Export Authorization Excel and validate with the Business Process Owners the access rights and identify improvements
- Update the profiles respectively in Training
- Test
- Apply in Production

Check, verify and update

- Work through Business Process Owners on the current configuration and explain the functionality and identify improvements
- Update the sys pref respectively in Training
- Test
- Apply in Production



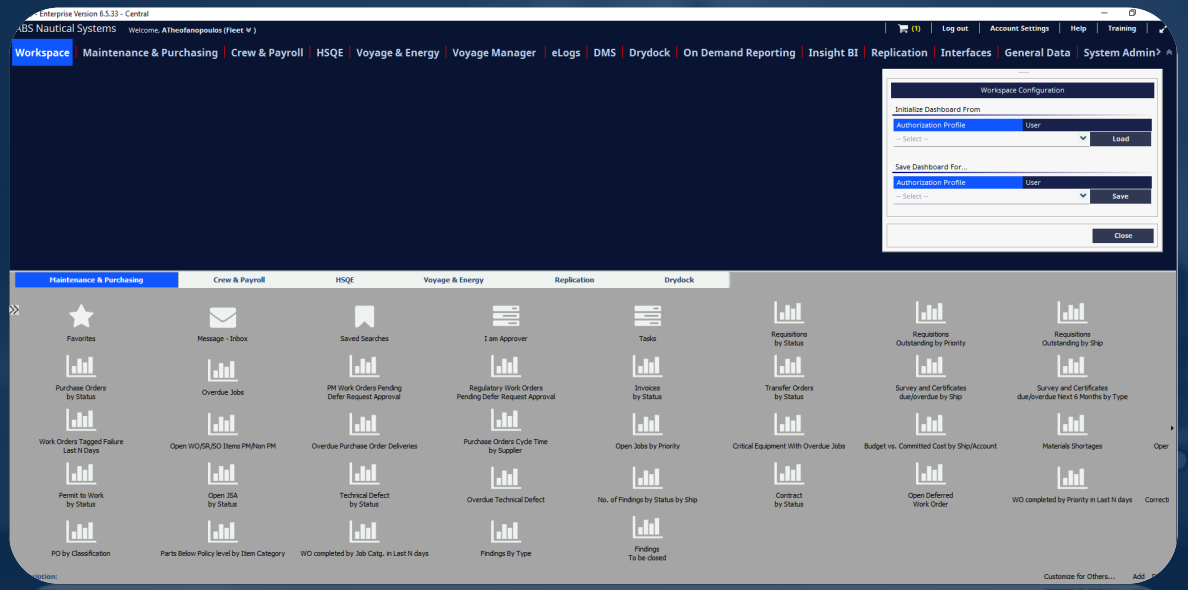
User Settings

Check, verify and update

- Validate users' messaging, notifications, purchasing authorizations, document filtering, user settings
- Validate with the Business Process Owners the users' settings and identify improvements
- Update the users respectively in Training
- Test
- Apply in Production

24TH ANNUAL GLOBAL NAUTICAL SYSTEMS USER CONFERENCE

ABS WAVESIGHT™



Workspace

Check, verify and update

- Validate workspace per profile with the Business Process Owners and identify improvements
- Organize and apply standard workspaces per profile on Workspace
- Update the workspace respectively in Training
- Test
- Apply in Production

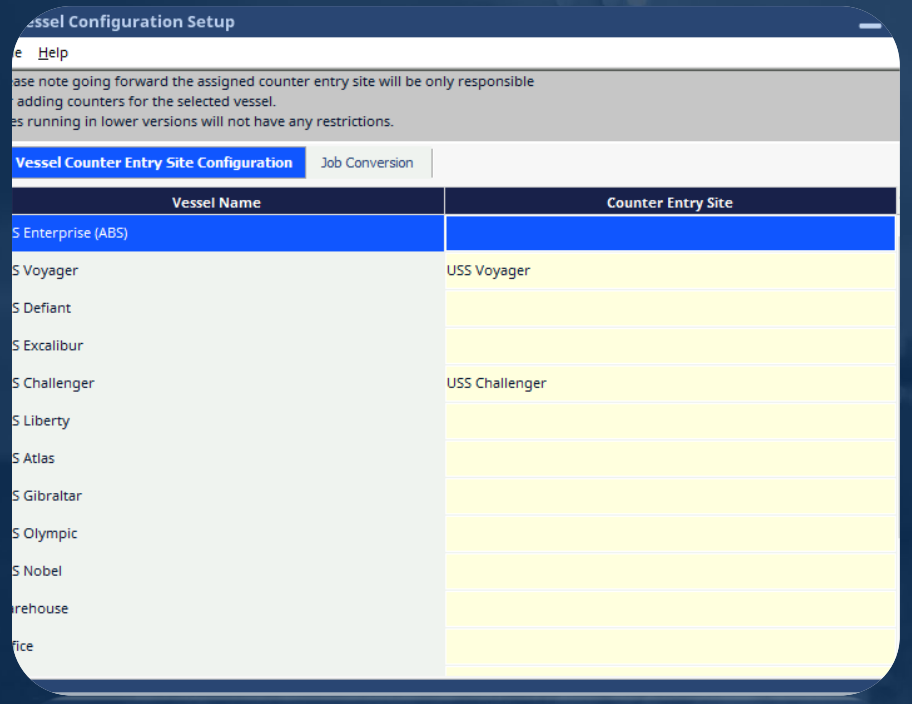
Saved Searches

Check, verify and update

- Validate searches per profile with the Business Process Owners and identify improvements
- Organize and apply standard searches per profile
- Update the saved searches respectively in Training
- Test
- Apply in Production

24TH ANNUAL GLOBAL NAUTICAL SYSTEMS USER CONFERENCE

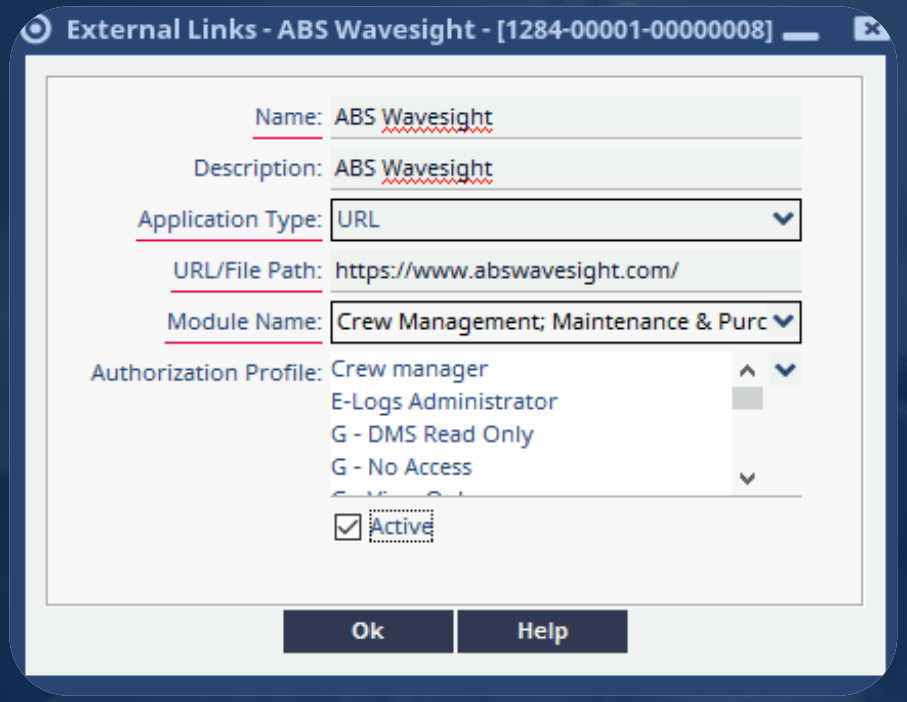
ABS WAVESIGHT™



Vessel Configuration

Discuss with the Business Owners and improve Maintenance features

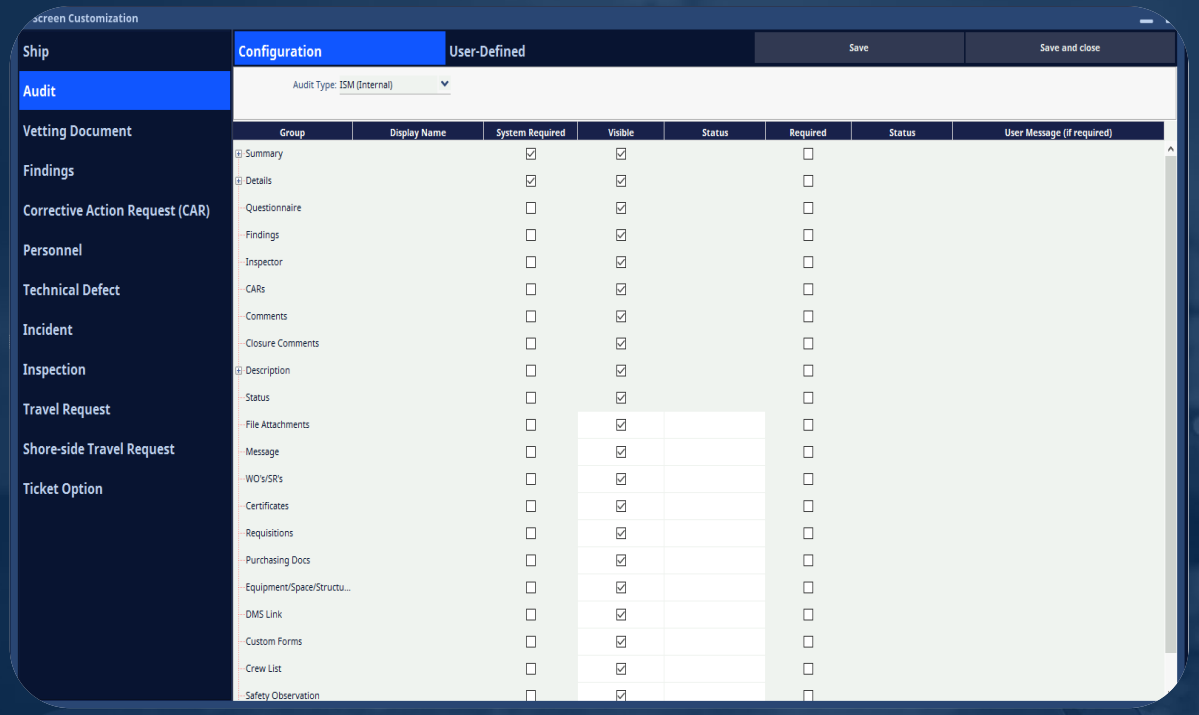
- Counter Entry Site
- Job Conversion (Automation)



External Links

Utilize External Links for the below

- Allow users to open sites, applications, documents, etc. from within a module
- Allow advanced users like accounting to trigger interface scripts from the UI



Customize Screens/Forms

Screen customization allows the customization of

- only the User-defined tab for the Ship Record
- by Type and Document Status the documents Audit, Incident and IMD
- Simply the fields without status for the documents and records Vetting, Findings, CAR, Personnel, Technical Defect, Travel Request, Shore-side Travel Request, Ticket Option

Q & A
ABS WAVESIGHT™

How many points did you get?

Use the NSUC app leaderboard to check your score and keep participating throughout the conference for a chance to win prizes (and bragging rights)!

#NSUC24

THANK YOU
#NSUC24
ABS WAVESIGHT™

24TH ANNUAL GLOBAL
NAUTICAL SYSTEMS
USER
CONFERENCE