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NAUTICAL SYSTEMS GLOBAL User Conference

Presented by

ABS WAVESIGHT™

23RD ANNUAL NAUTICAL SYSTEMS GLOBAL User Conference

System Administration Managing NS

Antonios Theofanopoulos

11/7/2023

Presented by

ABS WAVESIGHT™

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Antonios Panagiotis Theofanopoulos

Manager, Professional Services

Antonios Theofanopoulos is Professional Services Manager at ABS Wavesight. In his role, he is managing the technical matters and team for Professional Services.

Antonios has 24+ years of experience in the software industry of which 19 in the maritime industry. Prior to joining ABS Nautical Systems, he worked with Ulysses Systems for 6 years as Global Support Manager. In 2012 he started as Senior Consultant located in ABS Piraeus office and led as Senior Consultant major projects in the EMEA region and worldwide. Since 2019 Antonios was relocated to Houston.

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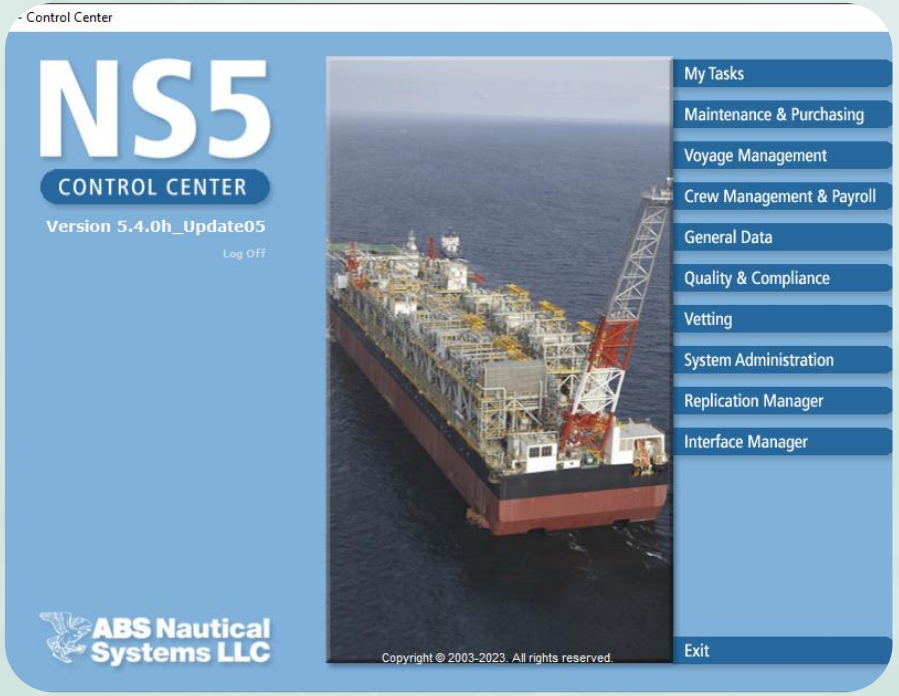
System Administration Agenda

Recent NS version history	13:30 – 14:00
New workflows, configuration and more	14:00 – 15:00
Interfaces and tools	15:00 – 15:30
Best practices and tools	16:00 – 15:15
Upgrade process	16:15 – 16:30
Technology stack & performance	16:30 – 17:00

Recent NS version history



NS 5.4-5.5

Install-NS5-5.4.0-GA-2009-03-03.exe

Hull Manager was introduced in NS 5.4

Install-NS5-5.5.0-GA-2011-03-10-x64.exe

32-bit and 64-bit Edition

mySQL 5.0.46-enterprise-nt

DMS was introduced in NS 5.5 as module

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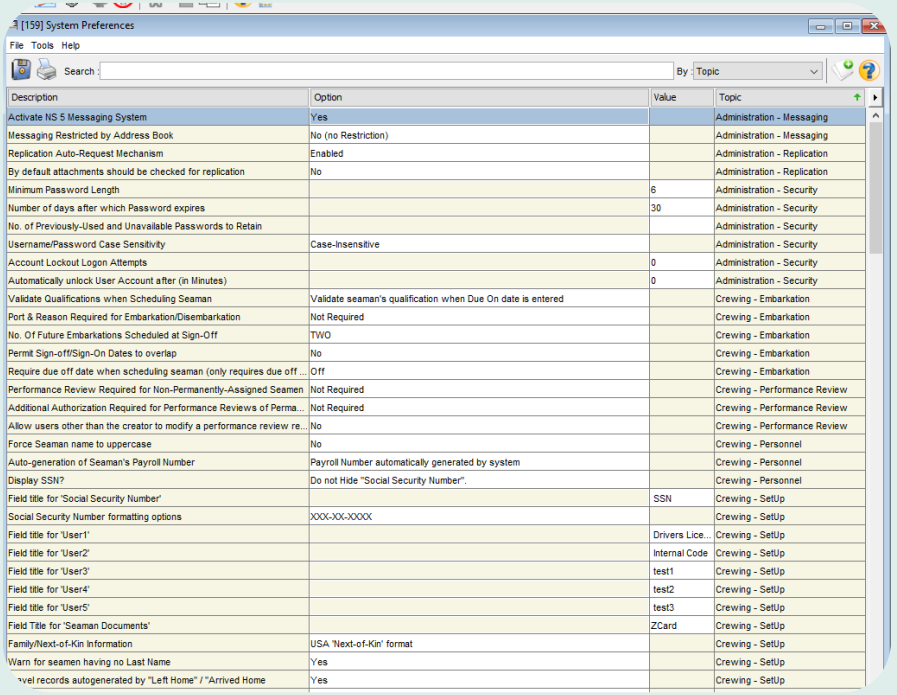
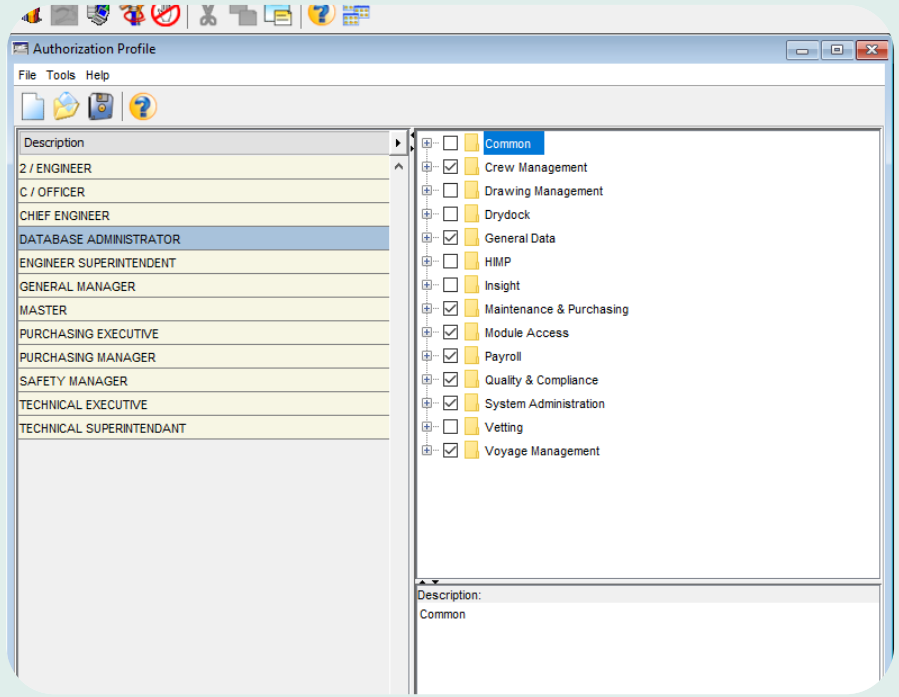
NS5.4-5.5 System Pref & Authorization





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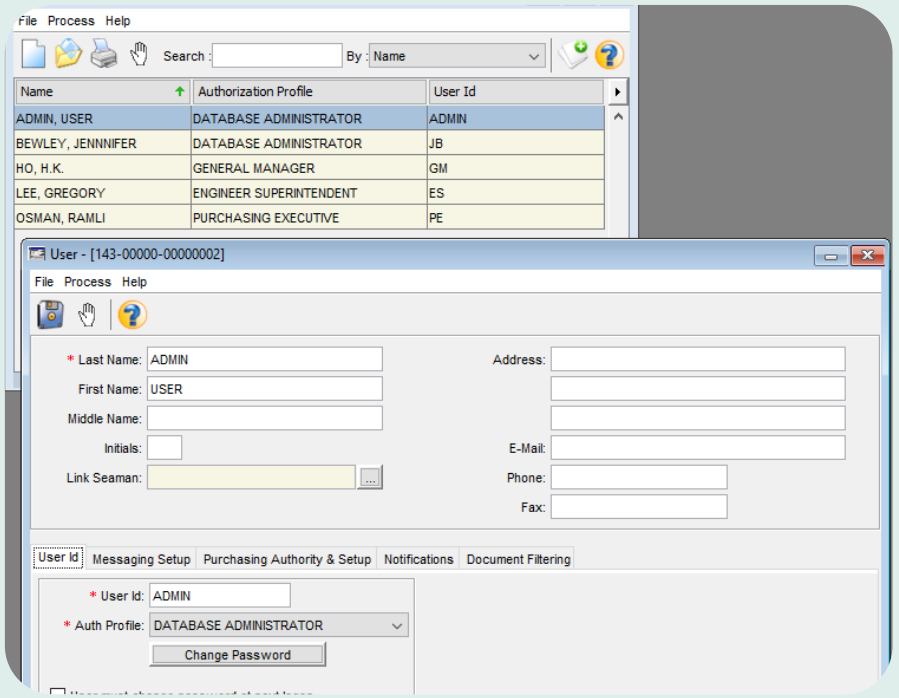
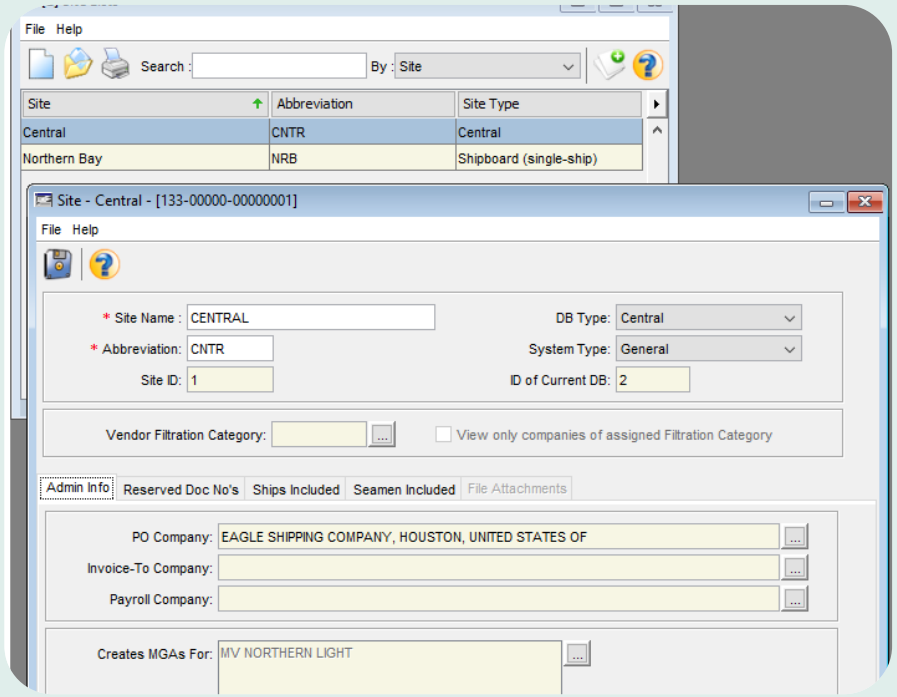
NS5.4-5.5 User and Site Data





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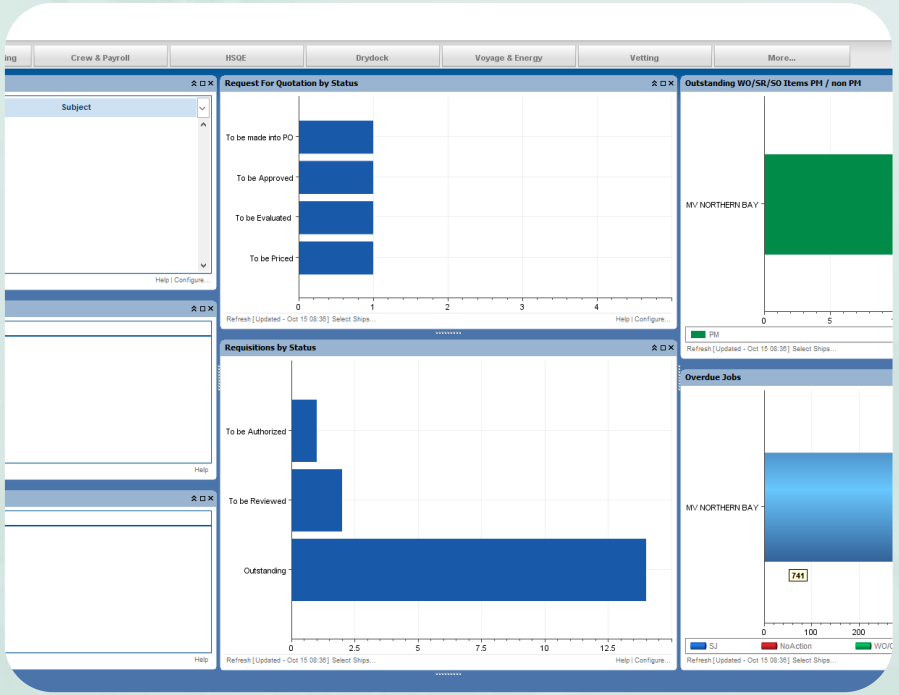

NS 6.2-6.3.12

Install-NS5-6.2.0-2012-10-19.exe

32-bit and 64-bit Edition

SQL Server Support

5.1.41-enterprise-commercial-pro-log

Last patch Oct 2016

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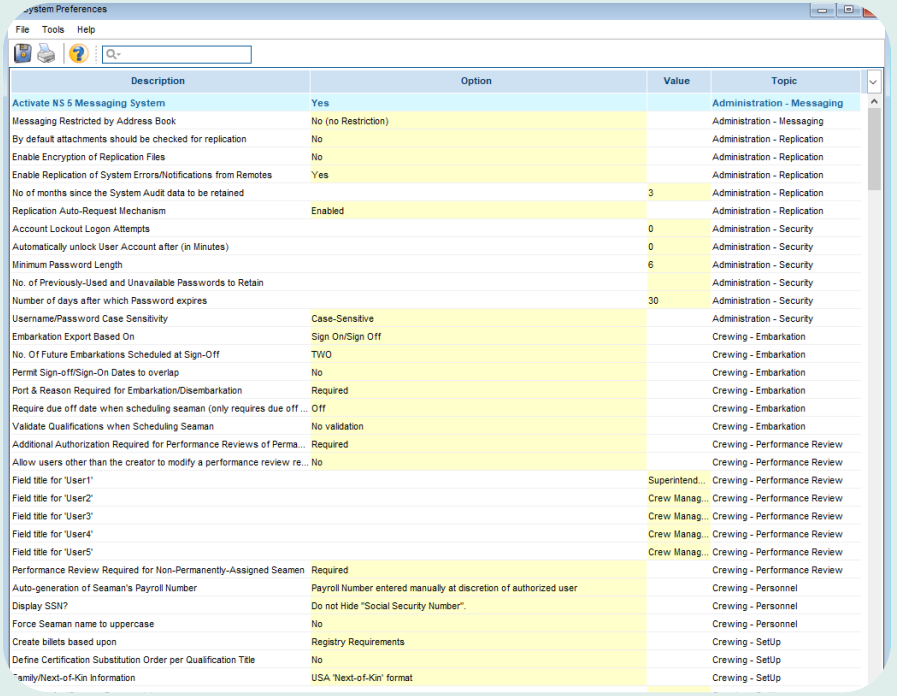
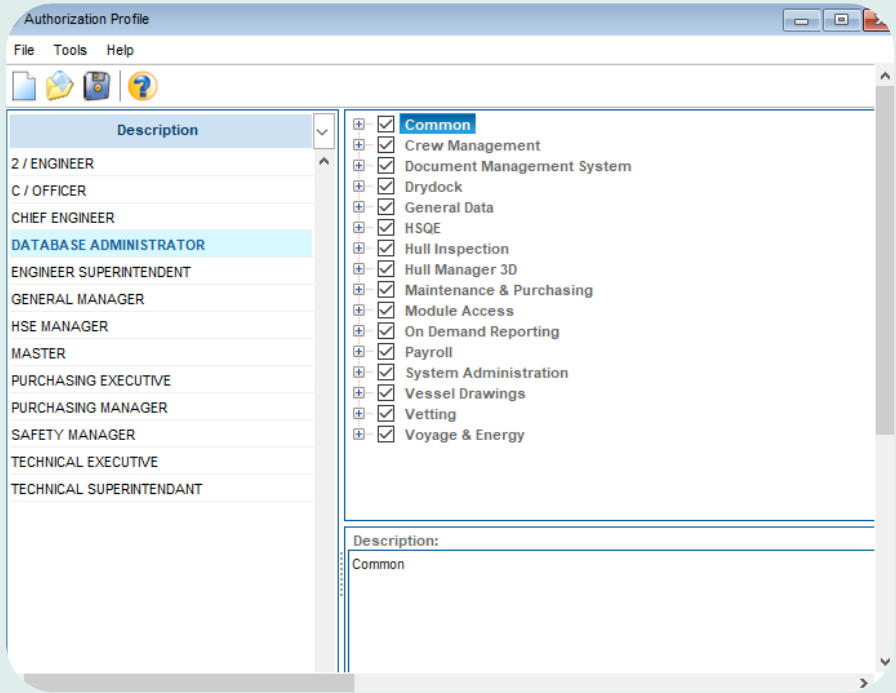
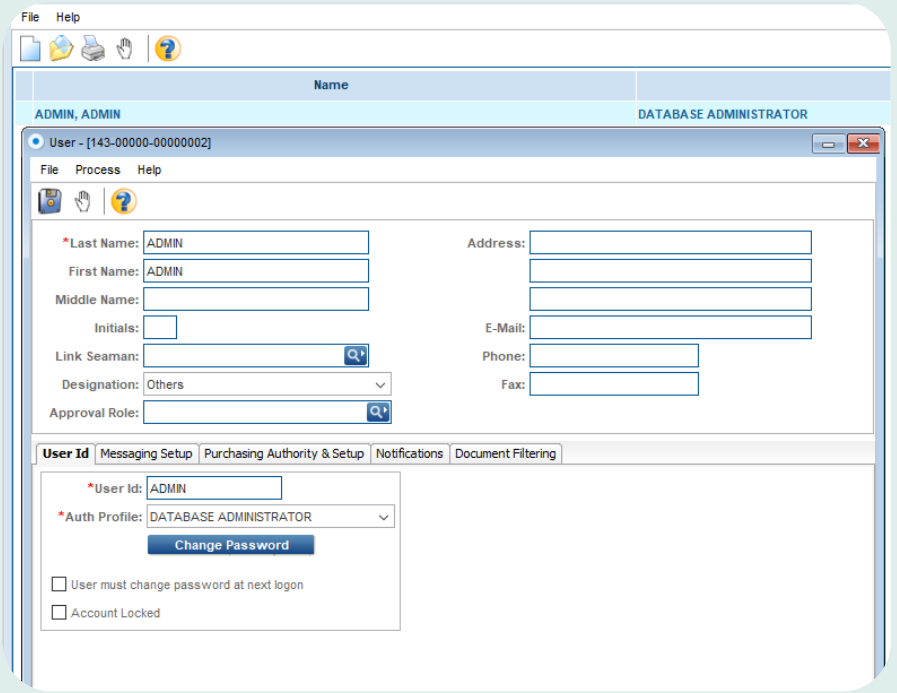
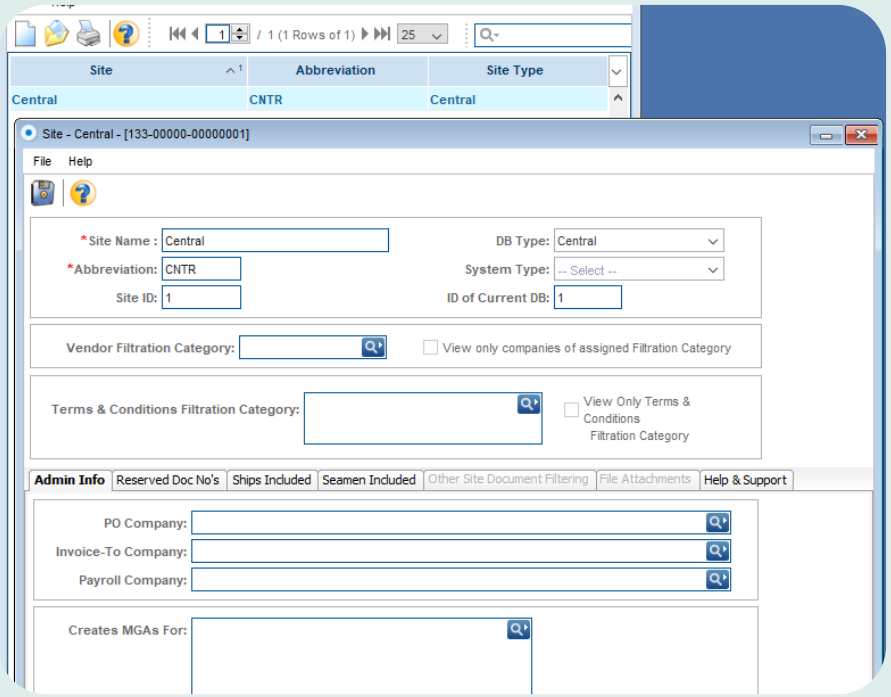
NS6.3.12 System Pref & Authorization





NS6.3.12 User and Site Data





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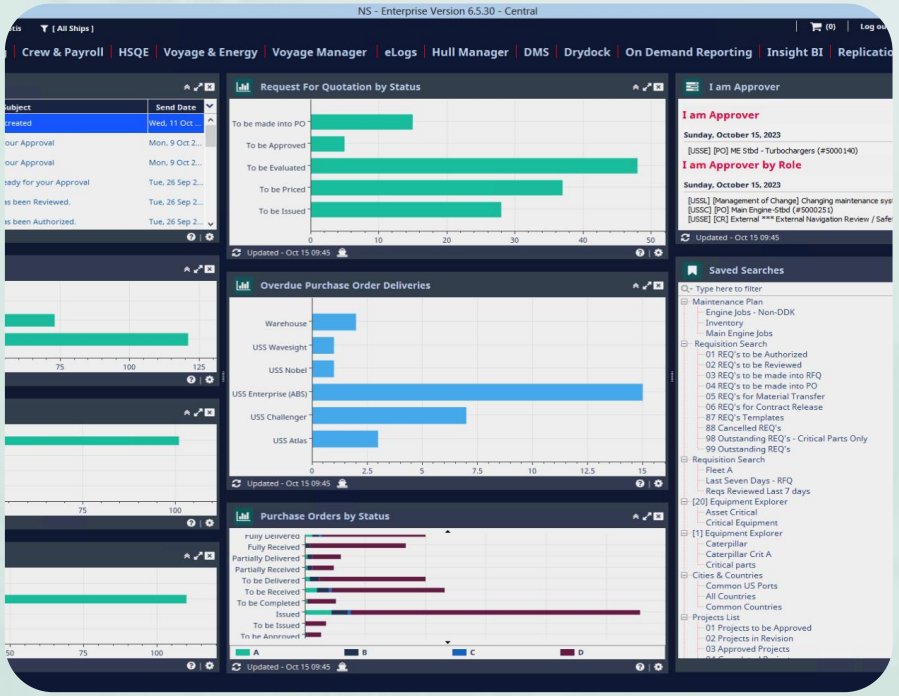


NS 6.4-6.5.30

Install-NS-6.5.30-2023-10-04.exe

64-bit Edition

SQL Server Support

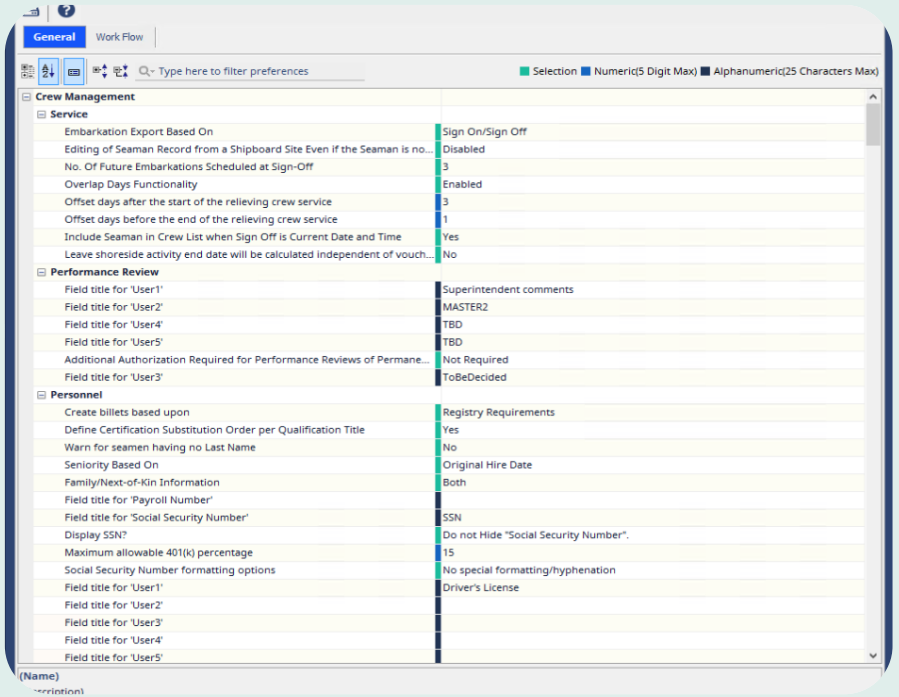
6.4 - 5.7.10-enterprise-commercial-advanced-log

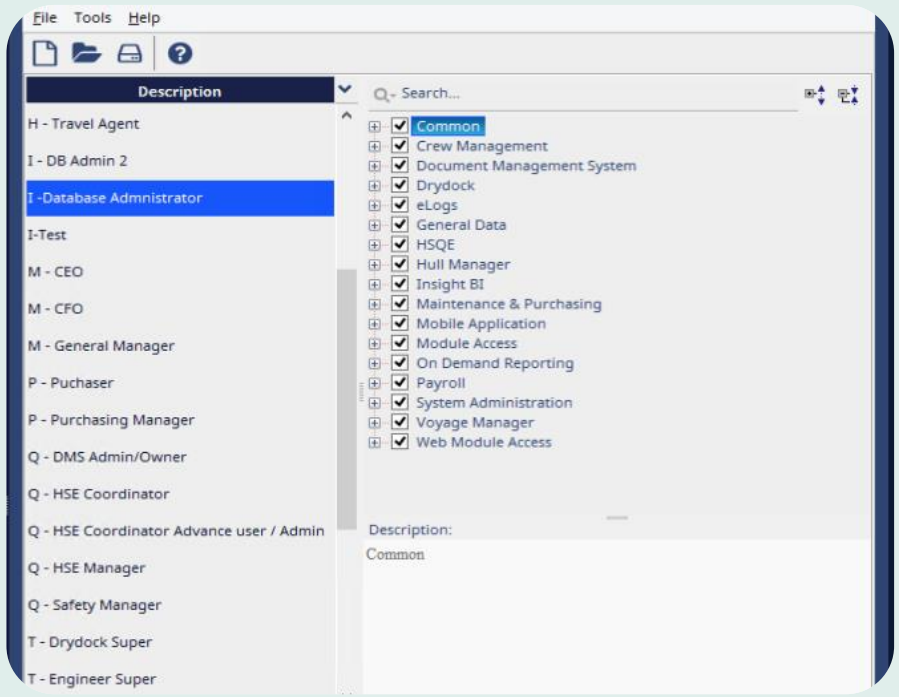
6.5.13 - MariaDB was introduced

6.5.30 - 10.4.14-MariaDB-log

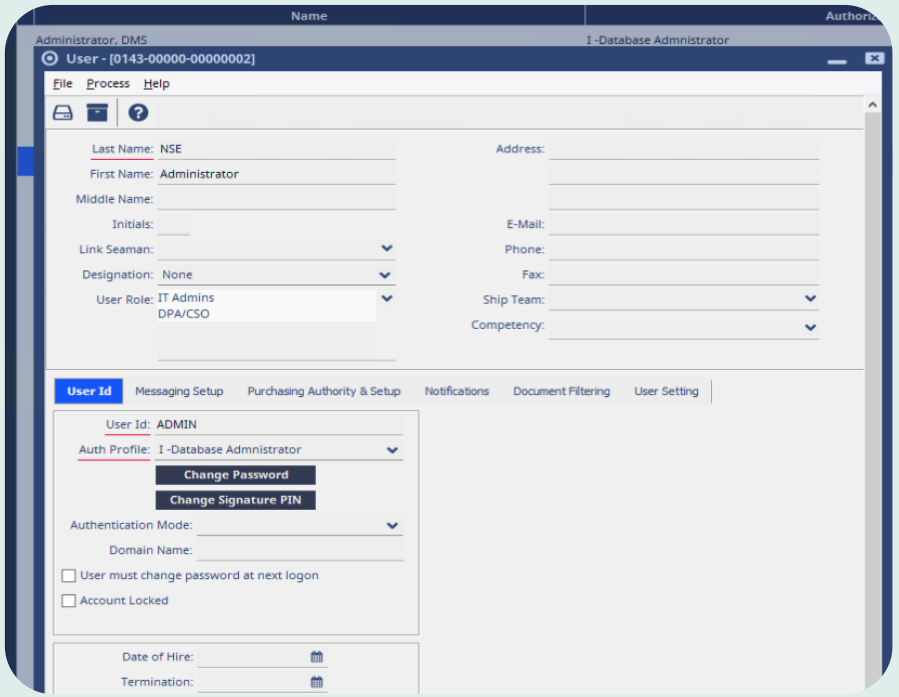
6.5.30 - 5.7.38-enterprise-commercial-advanced-log

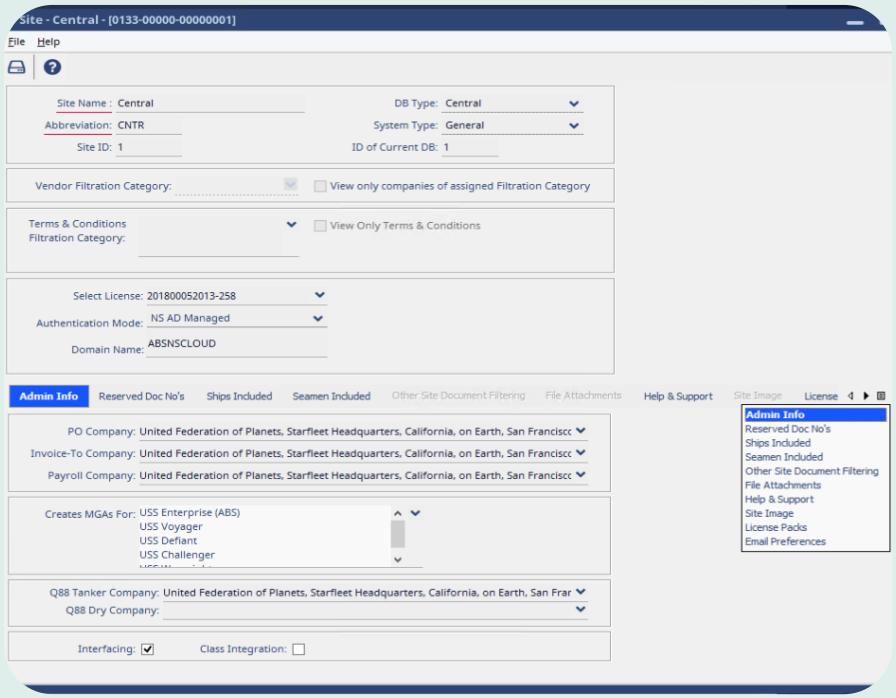
NS6.5.30 System Pref & Authorization

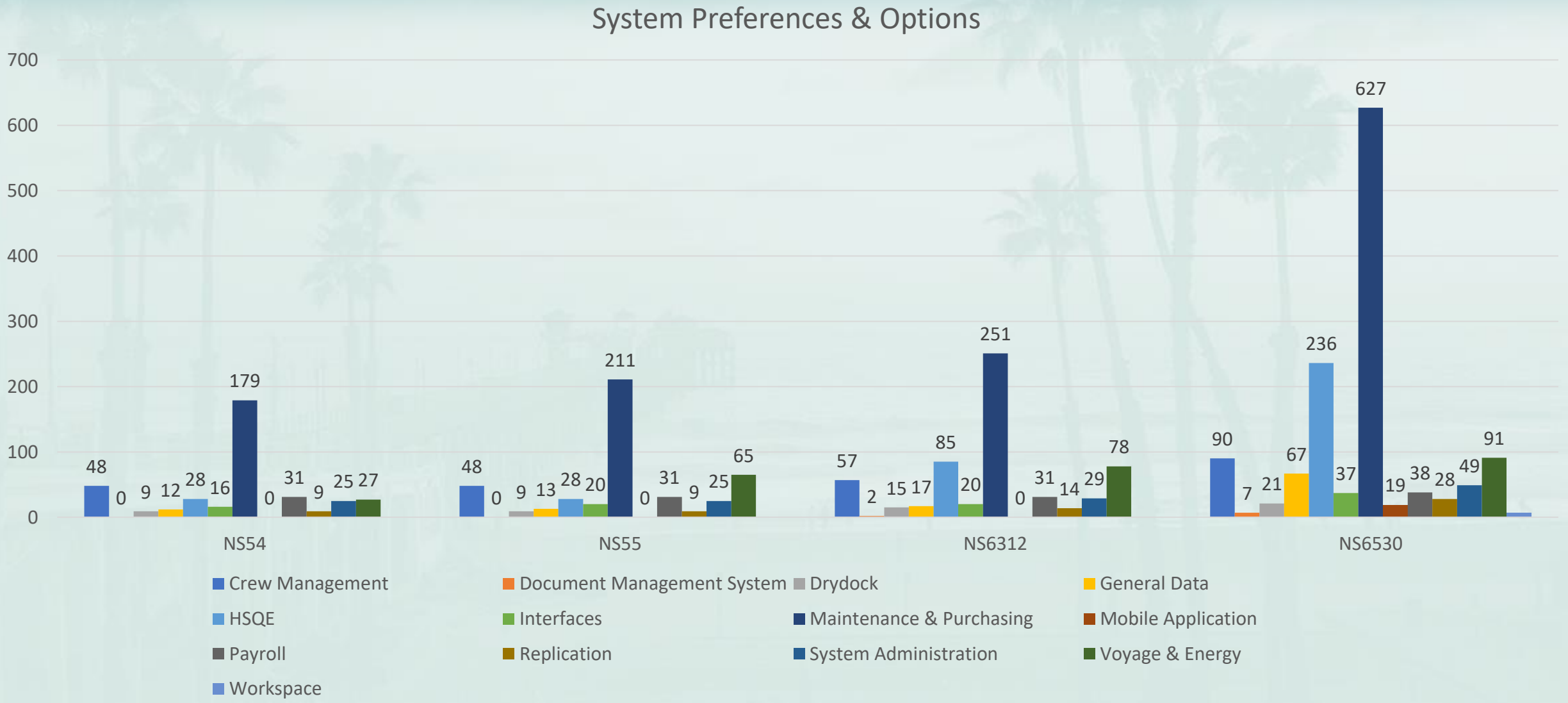


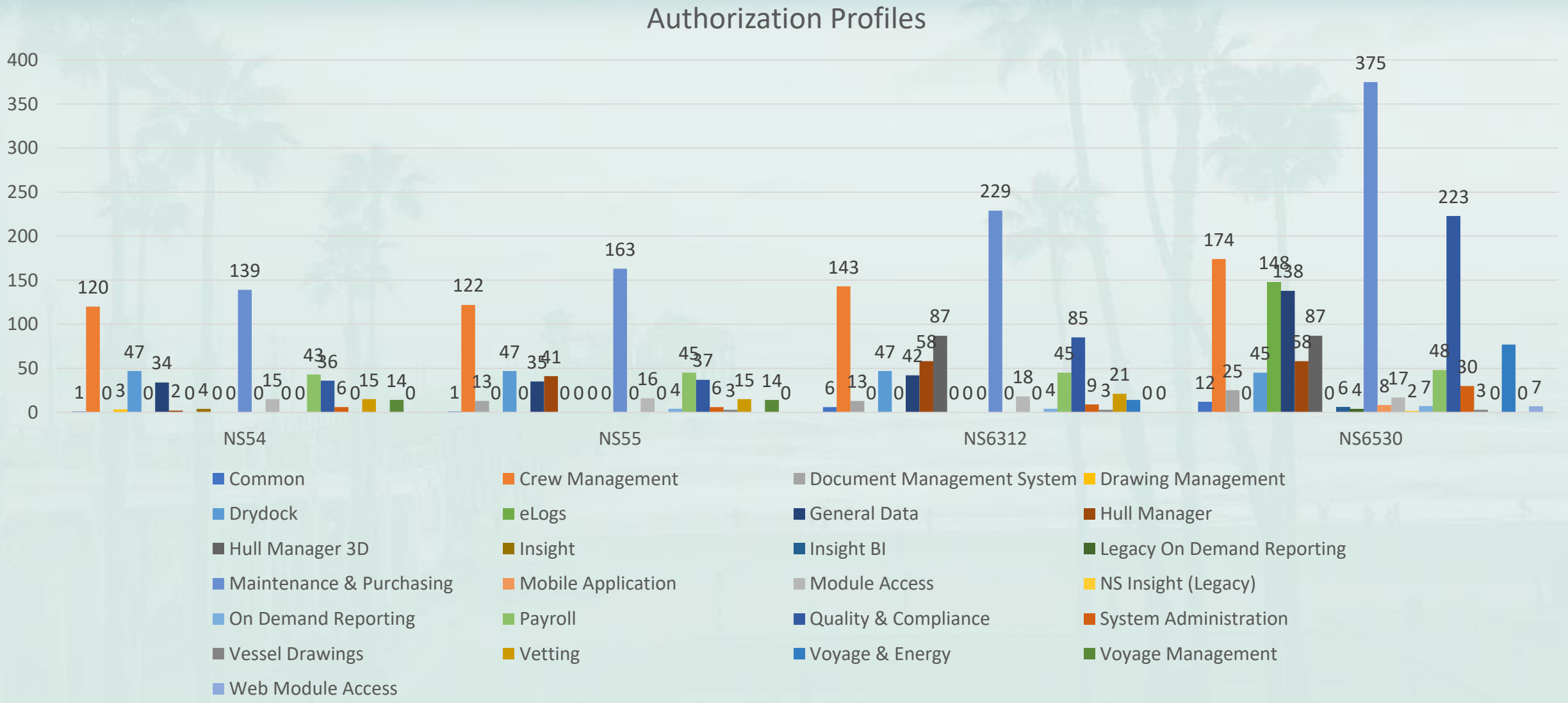


NS6.5.30 User and Site Data






System Preferences & Options
700
600
500
400
300
200
100
0
48 0 9 12 28 16 179 0 31 9 25 27
48 0 9 13 28 20 211 0 31 9 25 65
57 2 15 17 85 20 251 0 31 14 29 78
90 7 21 67 236 37 627 19 38 28 49 91
NS54
NS55
NS6312
NS6530
Crew Management
Document Management System
Drydock
General Data
HSQE
Interfaces
Maintenance & Purchasing
Mobile Application
Payroll
Replication
System Administration
Voyage & Energy
Workspace


Authorization Profiles
400
350
300
250
200
150
100
50
0
NS54
NS55
NS6312
NS6530
Common
Crew Management
Document Management System
Drawing Management
Drydock
eLogs
General Data
Hull Manager
Hull Manager 3D
Insight
Insight BI
Legacy On Demand Reporting
Maintenance & Purchasing
Mobile Application
Module Access
NS Insight (Legacy)
On Demand Reporting
Payroll
Quality & Compliance
System Administration
Vessel Drawings
Vetting
Voyage & Energy
Voyage Management
Web Module Access

New workflows, configuration and more

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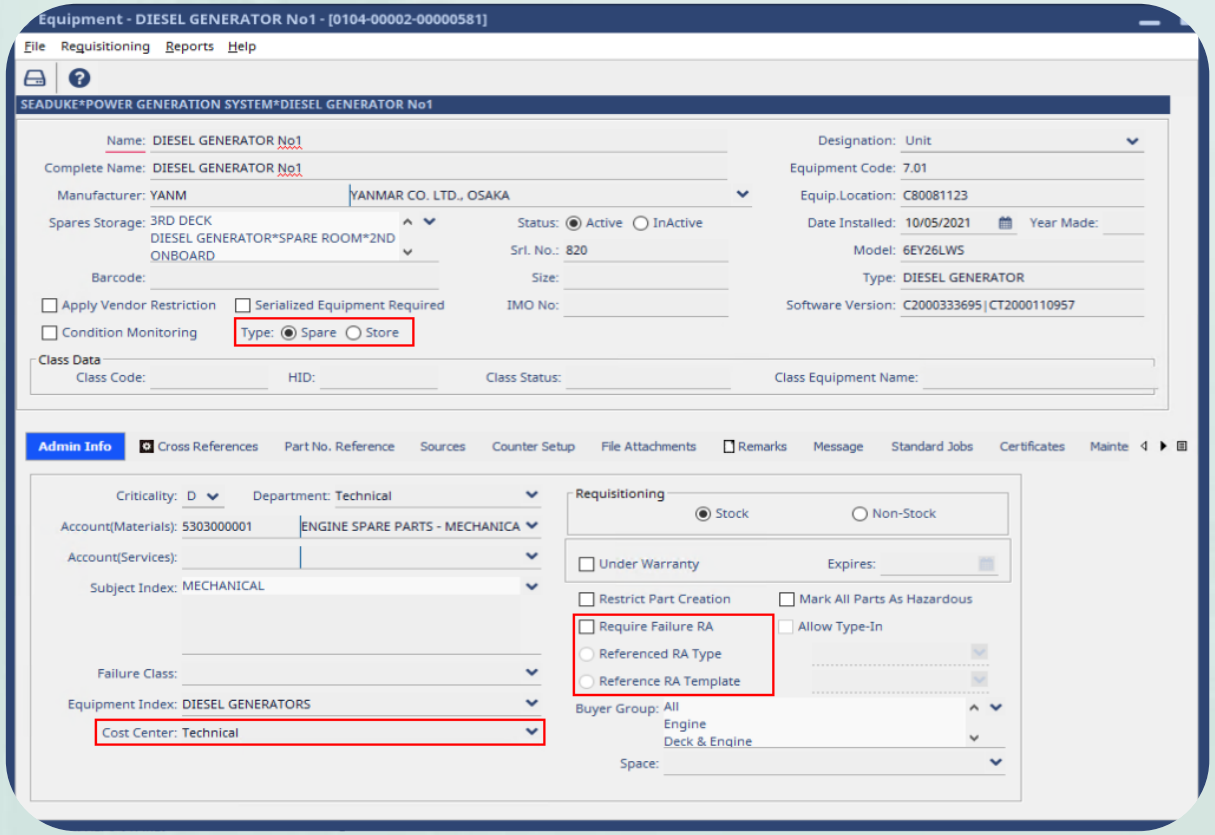
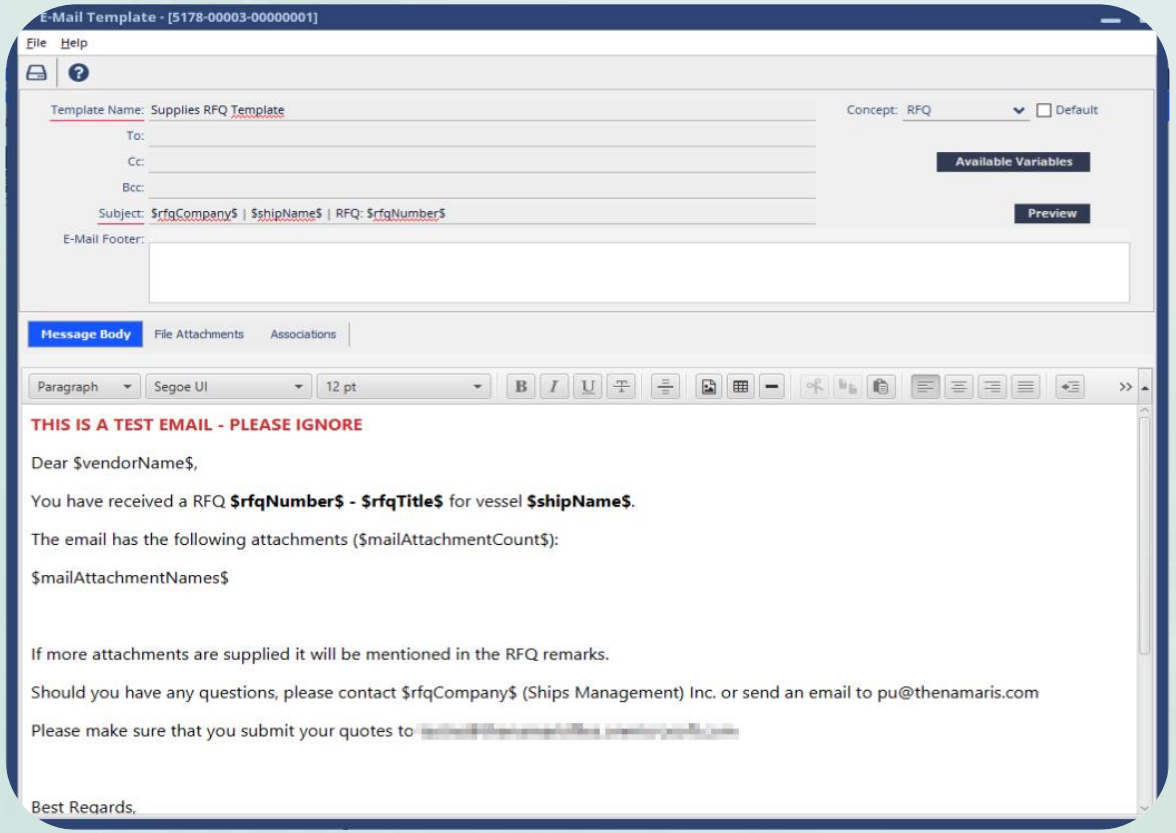
e-Procurement

- Improved email e-procurement (parallel to the existing methods)
- Email based
- Configurable
- Flexible
- Inhouse managed



Equipment Particulars Updates

- Type
- Cost Center
- Risk Assessment
- etc.
- Restrict Part Creation



Email Templates

- RFQ and PO
- RTF/html and variables
- File attachments
- Associations (Vendors, Ships, LoB and Type)

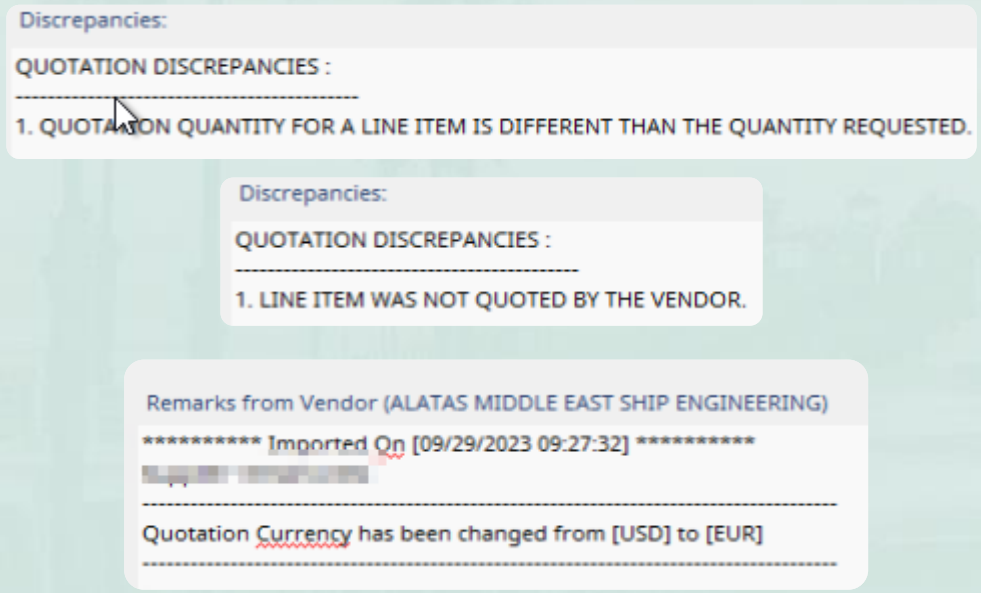
eproc-failure-message.properties

```
#key   -   Failure Message Key
#value -   Failure Message should be part of out going mail to vendor

eproc.vendor.quotation.failure.mail.body=Hello,<br>Please note that there are some issues encountered while loading the quotation information.
eproc.vendor.multiple.quotation.failure.mail.body=Hello,<br>This is to inform you that there are multiple quotation files attached to the email.<br>Please reply with only one quotation excel having the quotation information for the subject line RFQ Number.<br>Any quotation excels that are not matching the subject line RFQ  will not be processed. They have to be quoted via their respective mails.
eproc.vendor.pricing.complete.failure.mail.body=Hello,<br>This is to inform you that for the subject RFQ the pricing process has already been completed and quote was not accepted.Please contact the Issuer or concerned person.
eproc.vendor.missing.attachment.failure.mail.body=Hello,<br>This is to inform you that for the subject RFQ the received email does not have the excel attached with quotation information.Please revert with valid quotation information.
eproc.vendor.missing.documentnumber.failure.subject.body=Hello,<br>This is to inform you that the mail subject line does not contain required document number information.Please revert with correct details.
eproc.vendor.wrong.format.deliverdate.failure.subject.body=Hello,<br>This is to inform you that for the subject PO, "Deliver By" date is not as per the prescribed format.Please revert with prescribed format.

```

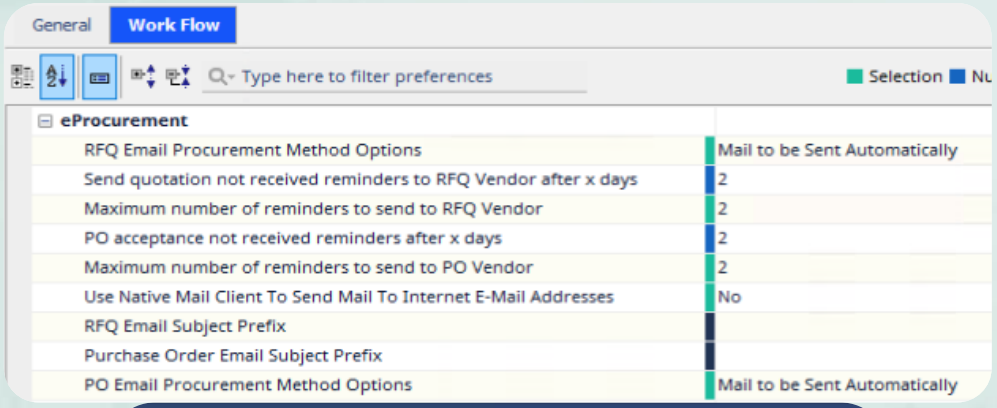
Failure Messages

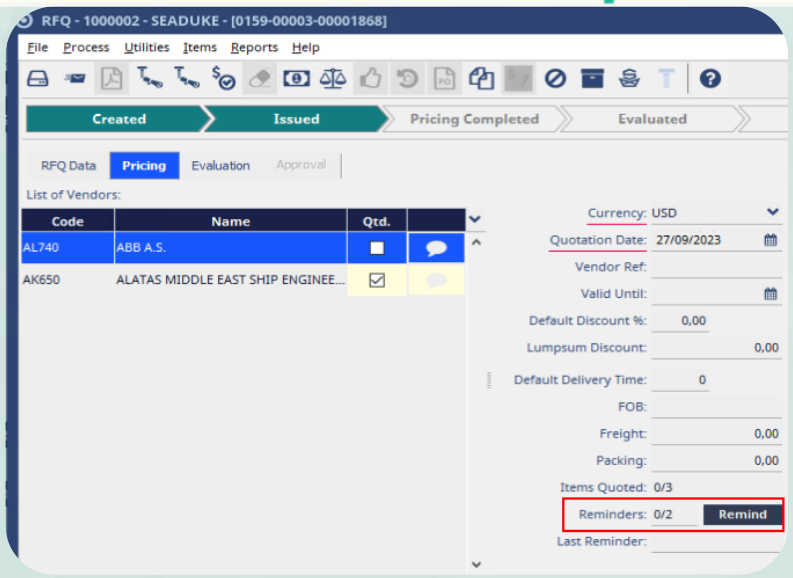
- Failure Management
- Notify Vendor

Exceptions



- Quoted/Not Quoted
- UoM Change
- Currency Change



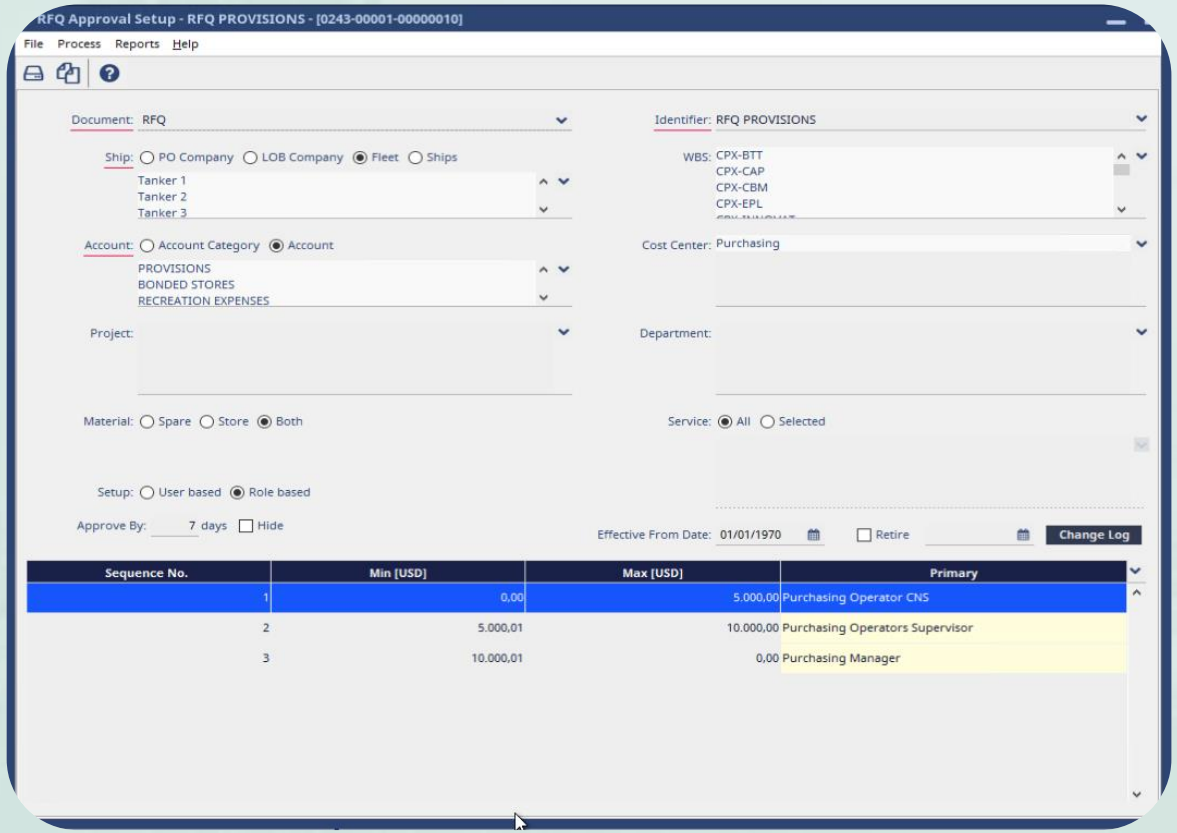


Reminders

- RFQ Quotation Reminder
- PO Acceptance Reminder
- Further Settings

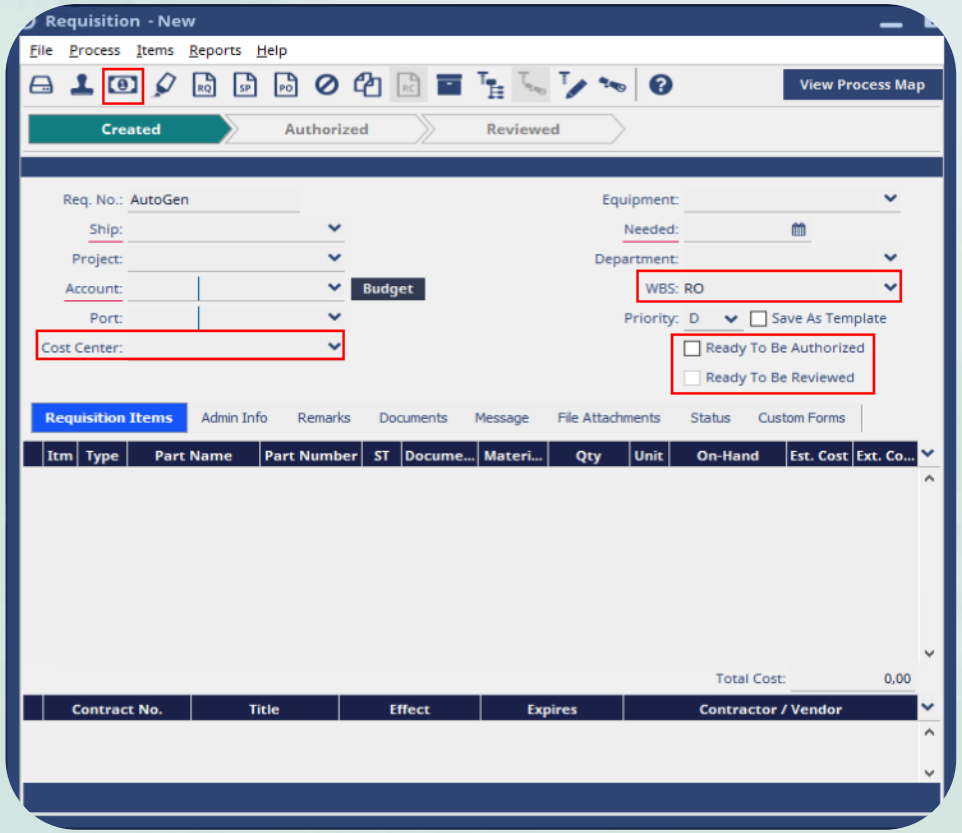
Excel additions

	Requested						Offered								
No.	Qty	Unit	Quality	Description	Part No.	Part Reference	Quoted	Quality	Qty	Unit	Unit Price	Disc.%	Del. Time	Total Amount	Remarks By Item
1	3.0	PCS	OEM	Driven Gear	2	Pos No	YES	OEM	3.0	PCS	0	0.0		0	
2	3.0	PCS	OEM	Driving Gear	1	Pos No	YES	OEM	3.0	PCS	0	0.0		0	
3	3.0	PCS	OEM	Hydrostatic Cable	5	Pos No	YES	OEM	3.0	PCS	0	0.0		0	
4	3.0	PCS	OEM	Locking Block	4	Pos No	YES	OEM	3.0	PCS	0	0.0		0	
5	3.0	PCS	OEM	Release Gear	3	Pos No	YES	OEM	3.0	PCS	0	0.0		0	
													Total:	0	



Approval Setup Updates

- Vessel, Fleet, LOB, PO Company
- WBS
- Account or Category
- Cost Center
- Project
- Department



Requisition Updates

- Cost Center
- WBS
- Ready to be authorized
- Ready to be reviewed
- Validate (External System Integration)

Configuration
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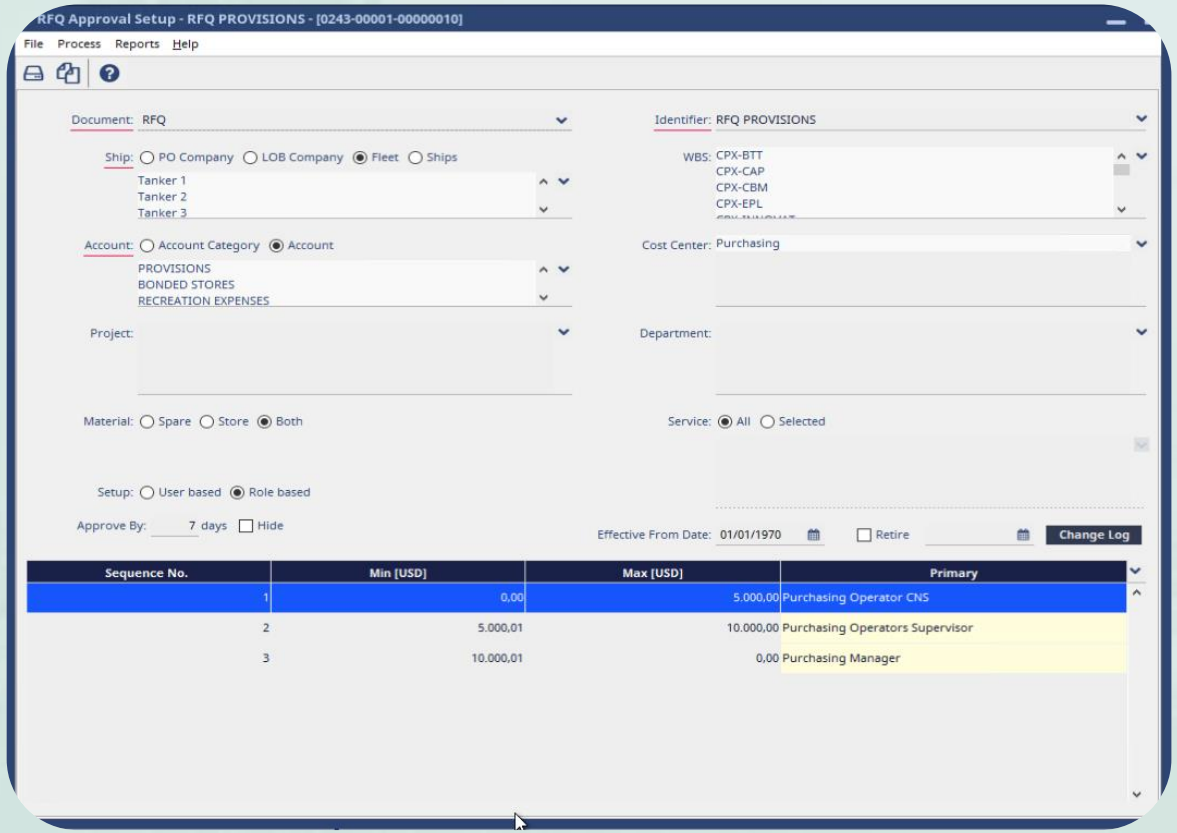
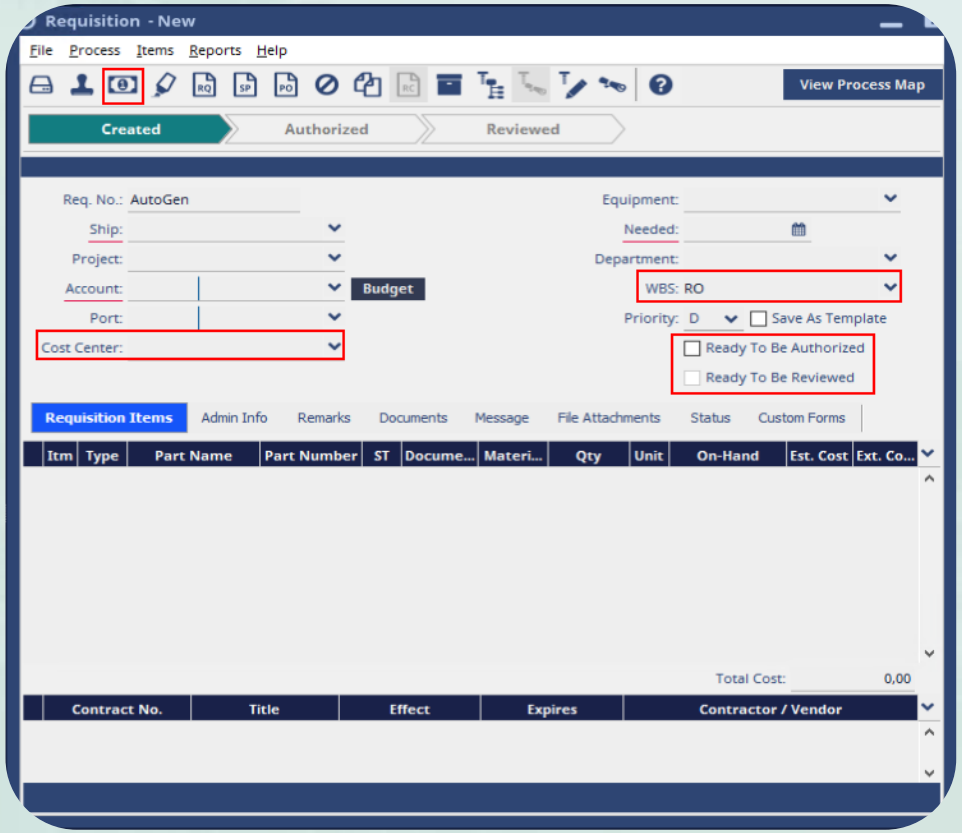
eProcurement

- Setup
- RFQ Process
- PO Process



Approval Setup

- Setup
- RFQ Process
- PO Process



Requisition

- Setup
- Process
- Saved Searches

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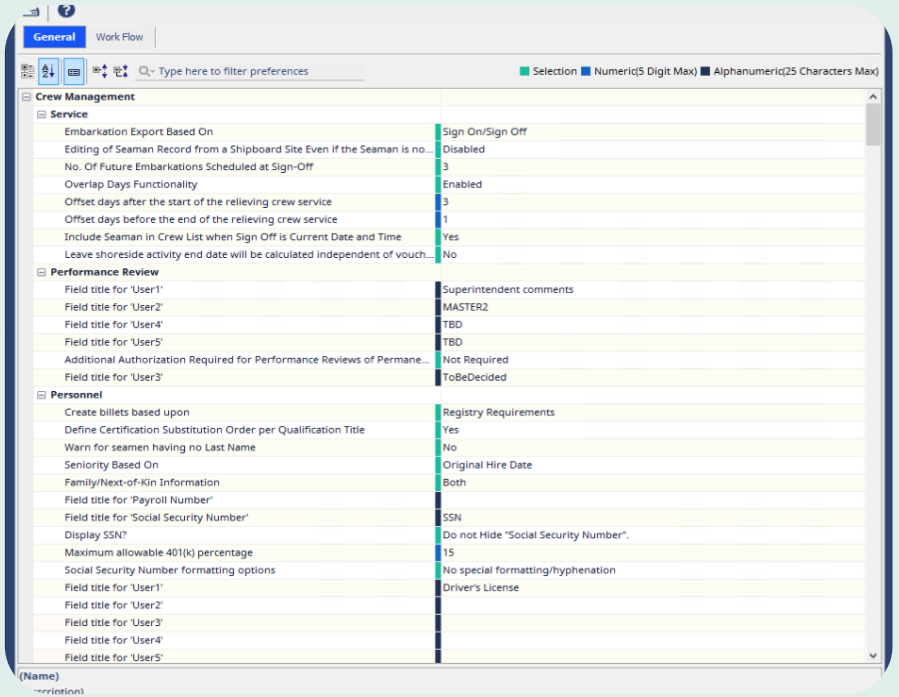
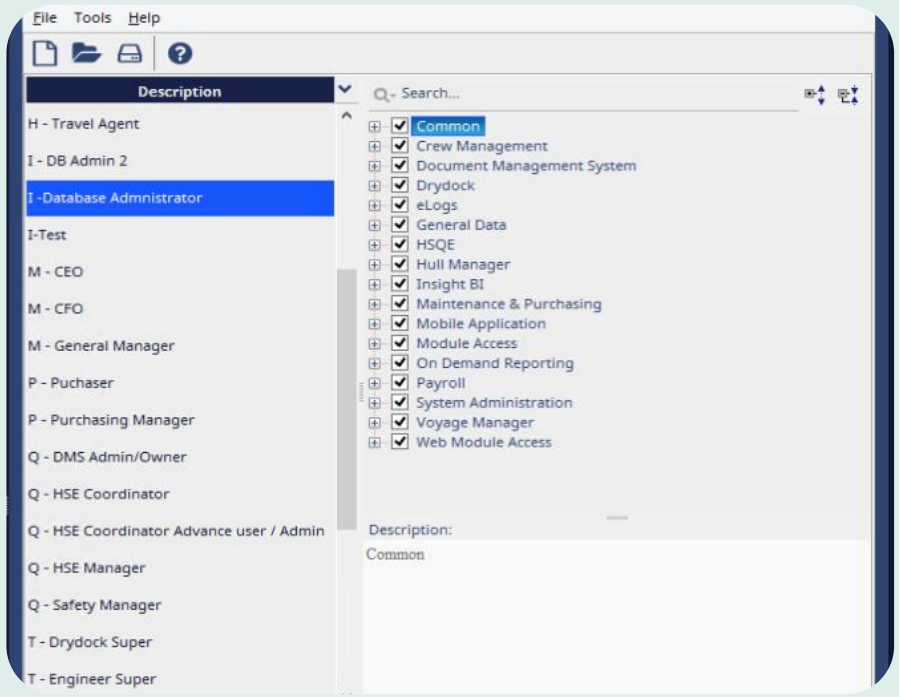
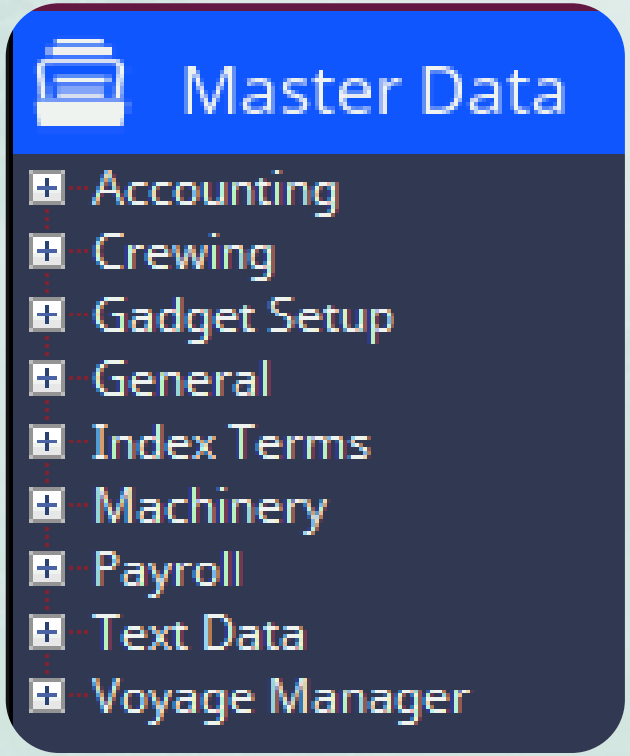
System Preferences & Authorizations



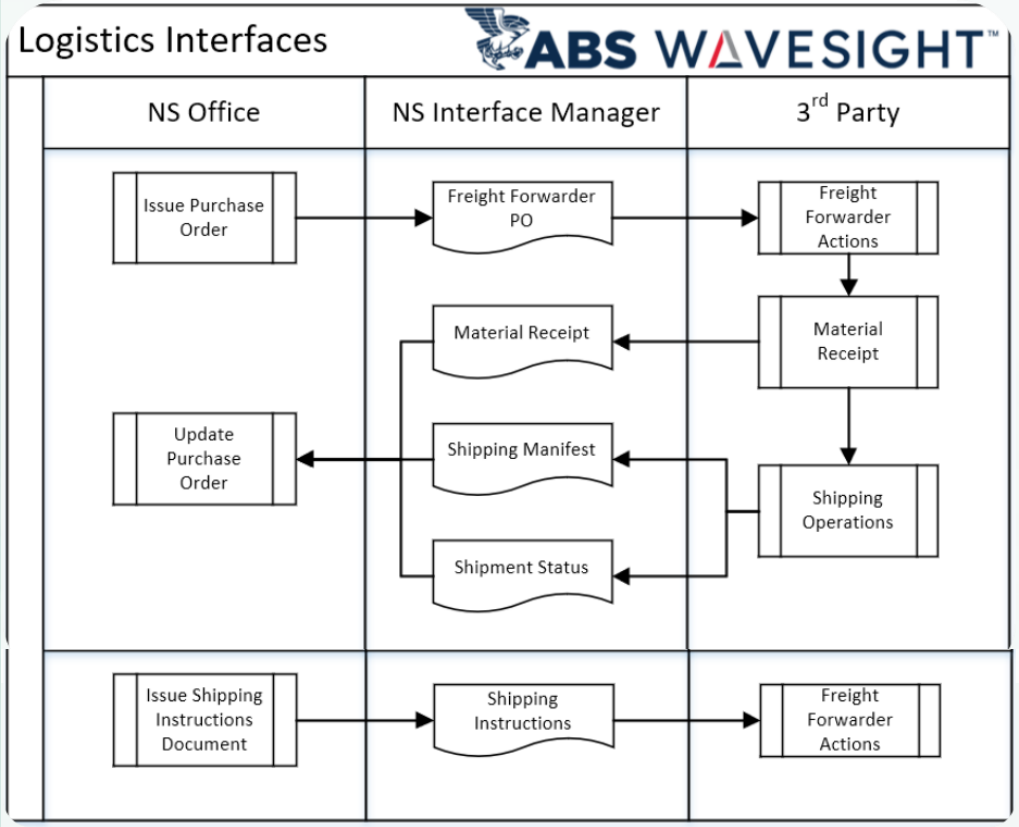




General Data

- Cost Center
- WBS
- Text Data
- Etc.

Interfaces



Logistics Interfaces

- Freight Forwarder PO
- Material Receipt
- Shipping Manifest
- Shipment Status
- Shipping Instructions

Financial Interfaces

- A/P (Invoices) Export
- Accruals Export
- Cancelled Invoices
- Cancelled Purchase Orders
- Vendor Export
- Scanned Invoice Import
- Currency
- Invoice Payment
- Account Import
- Project Import
- Budget Import

Purchasing Interfaces

- Requisition (Material and Service) Export
- Purchase Order Import
- Release Purchase Order Export
- Purchase Order Export
- Vendor Import
- Receipt/Delivery
- RFQ Export
- Inventory Transactions
- Transfer Order
- Insurance Claim

Asset Management Interfaces

- Equipment Export/Import
- Part Export/Import
- Material PO Export
- Inventory Export/Import
- Condition Monitoring

Crewing & Payroll

- Seaman Export/Import
- Voucher Export/Import
- Embarkation Export/Import
- Payroll Allotments
- Payroll Deduction
- Payroll Benefits
- Bank Exports

Best practices and tools

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Best Practices 1/3

Replication

- Replication Report Notification
- Event Viewer Monitoring

Overnight & Overday Scripts

- TRLPURGE
- DBLogPurge
- MSGPURGE
- SysAuditPurge

Best Practice 2/3

Management of folder (Replication, Log, etc.)

- Conserve Diskspace

Database Backups and Disaster Recovery

- Database Replication

External File Replication

- Distribution and consistency of memory settings, logging levels, configuration files, Jar Fixes, etc.

Logging Level

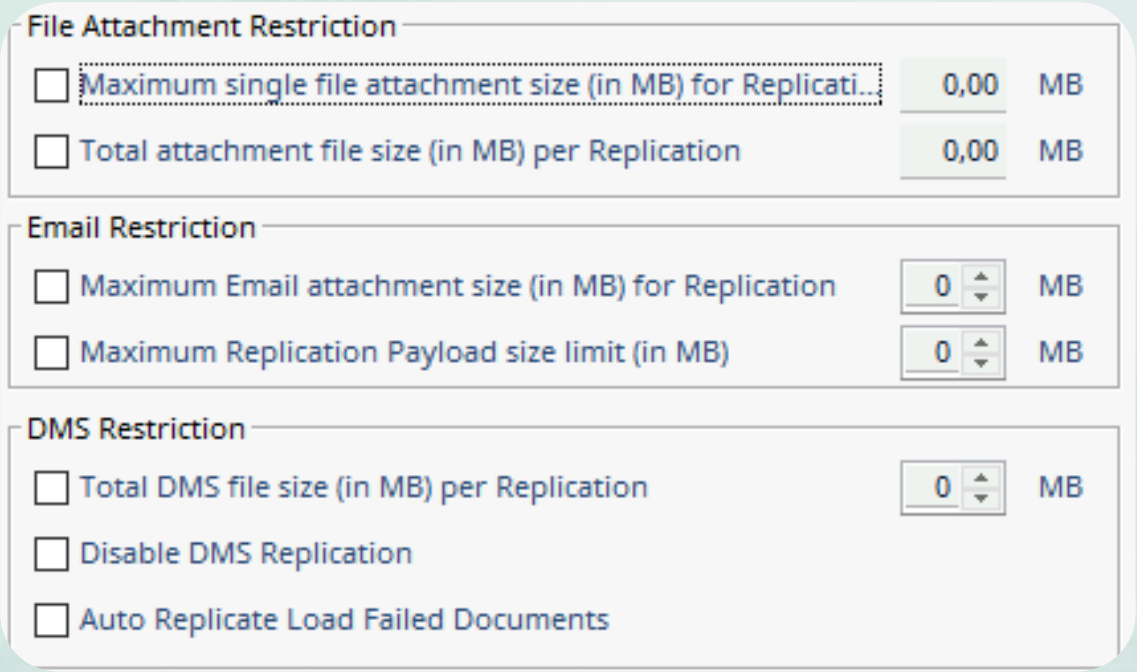
- Modifying logging level to conserve diskspace

Best Practices 3/3

Debug Mode

- Helps with ticket analysis to send debug results with ticket
- IF issue was able to be reproduced in Training Environment or Off-Hours as to not affect active users

- NS5Settings.exe
- SSO
- PowerShell vs cmd



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.

TxnRelogger

Transfer 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

Technology stack and performance

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Performance

Performance Baselines

- Enabling Performance Logging

JVM Memory Management

- vm.prop

SQL Server

- Ad-hoc Query Workload (Server Setting)
- Memory
- Query Cache (Later Versions)

mySQL

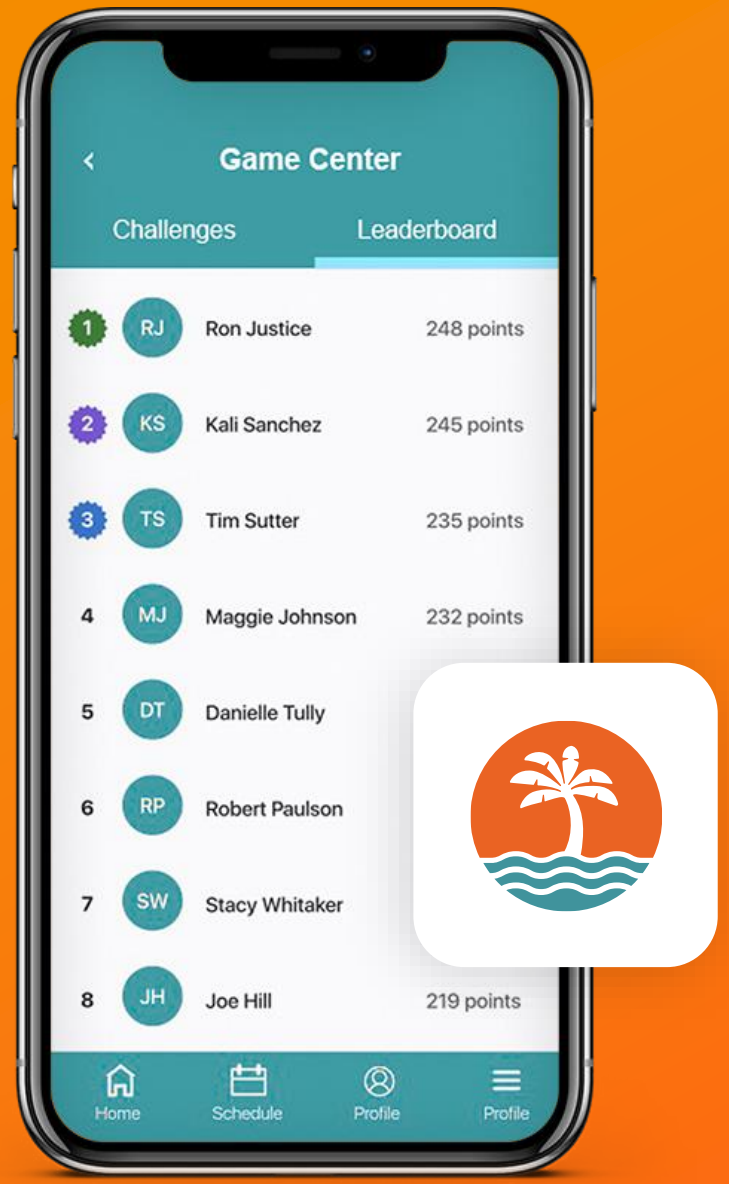
- ns-mysql.ini

Current versus Future

- mySQL 5.7.38
- Tomcat 8.5.77

- mySQL 8.0
- Tomcat 8.5.95

Q & A



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)!

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THANK YOU

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