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# Asset Management Maintenance & Purchasing

**David Kramer** 

10/23/2023

Presented by





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#### **David Kramer**

**NS Consultant** 

Senior Technical Consultant

David has been with ABS since 2018. He has worked in Ship Management for more than 25 years.

David's experience is Technical and Operational Ship Management roles dealing with large fleets of ships.

He is a Naval Architect, Mechanical Engineer, Business Manager, and was a Chief Engineer.



Rich Text, HTML

#### **Agenda**

ABS WAVESIGHT

13:30- 15:30

Data Management **Screen Customization Technical Defect Vessel Certificate** CM - Condition Report CM - Measuring Points Condition Monitoring (CM) P – Freight P - Cost Centre, P - NSeProc Purchasing (P) Forwarding WBS Gadgets







## **Data Management**

- Critical for success
- Good data structure leads to success
- Considerations for data setup and the management thereof
- Good data structure supports and enhances tools within the application
- Data population







#### **Technical Defect**

#### Industry requirement

- Used in different ways
- Can be renamed, example Defect
- Define Indexes
- Set calculations for Target Closure date in days from creation
  - Consequences, Priority, Criticality
  - Can allow user Target Closure date
- Screen Customization
  - Fields
  - Tabs, example RCA, JSA, Failure
- Links to multiple documents
- Dashboard
- Gadgets

- Wizard for creation
  - SIRE or OVID Category
  - Condition of Class or Dispensation

- Introduced 6.5.24
  - Enhanced 6.5.26/27/29/30.





#### **Screen Customization**

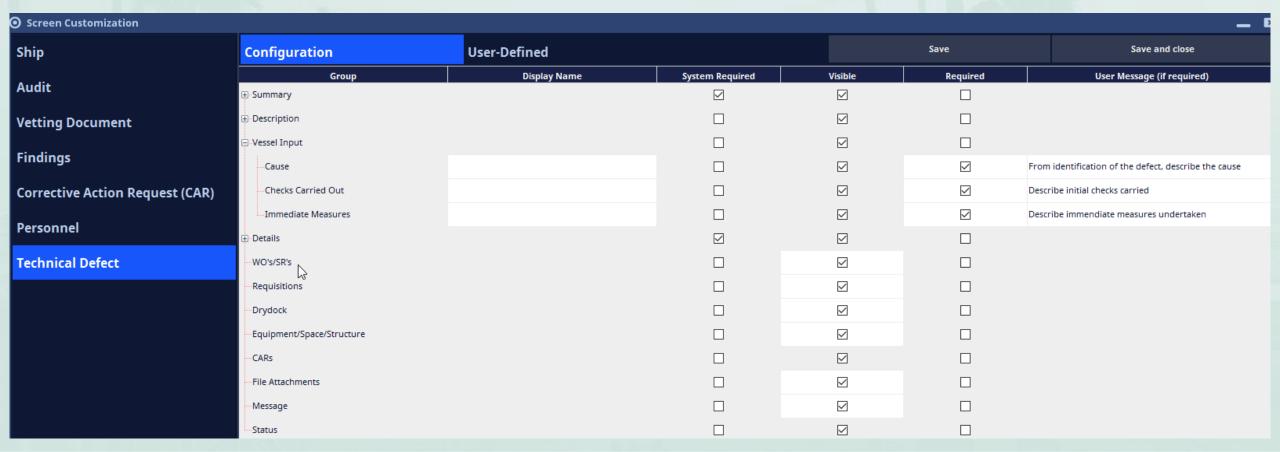
#### Drives input and data

- Set required fields
- Guidance text
- Turn fields off
- Drive data entry
- On certain documents forces entries at difference status





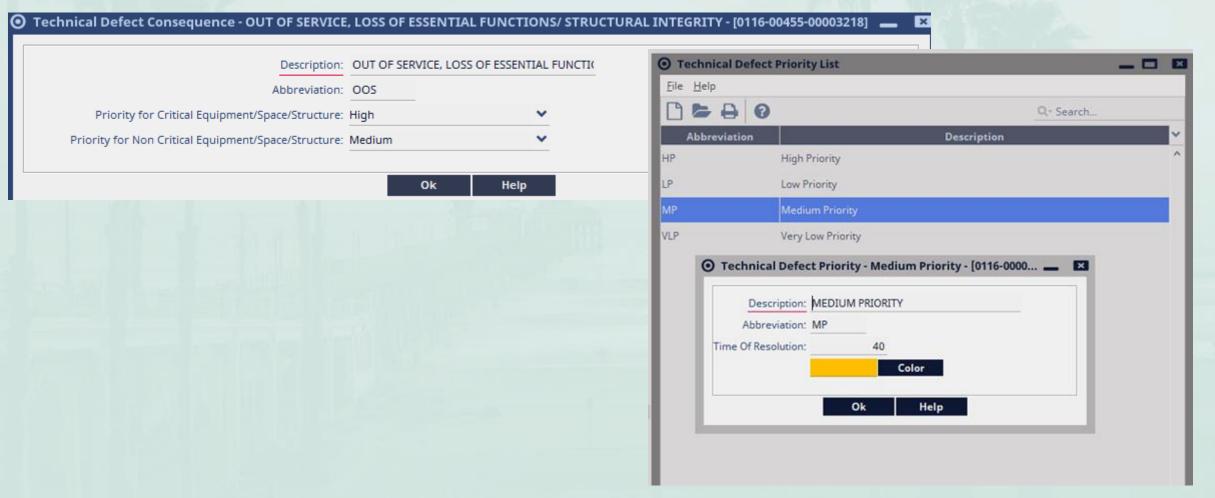
#### **Screen Customization**







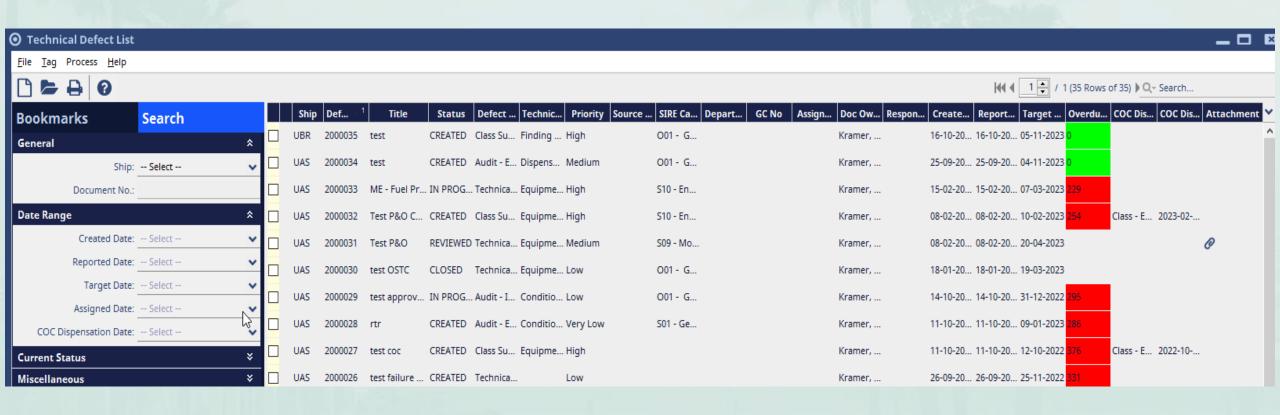
## **Target Closure Date**





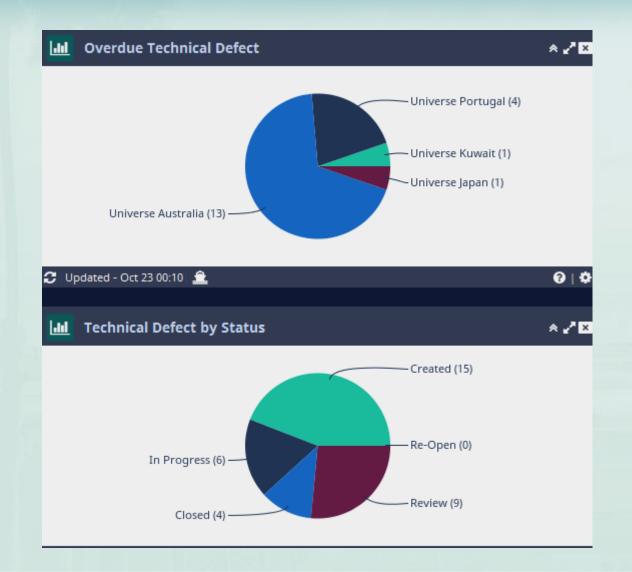


#### **Technical Defect Dashboard**









### **Gadgets**

- Technical Defect Status
  - Shows all status: Created/In Progress/Closed/Review/Re-Opened
- Overdue Technical Defects
- I am Approver
  - This will show Technical Defects awaiting Re-Schedule acceptance.
- Tasks
  - This will show Technical Defects linked to the User or user Role.





### **Technical Defect Wizard**







#### **Vessel Certificates**

#### Enhances overall management

- Vessel Certificates
- Considerations
  - Which certificates to manage
  - How does the company work
  - Departments
  - Same view in Maintenance and HSQE
  - Interfaces
- Define Certificates and items to manage as a Vessel Certificate
- Compliance Hierarchy
- Survey Certificate Index
- Driving Certificates
  - Standard Job
  - Compliance Job (Certificate Expiry Date)

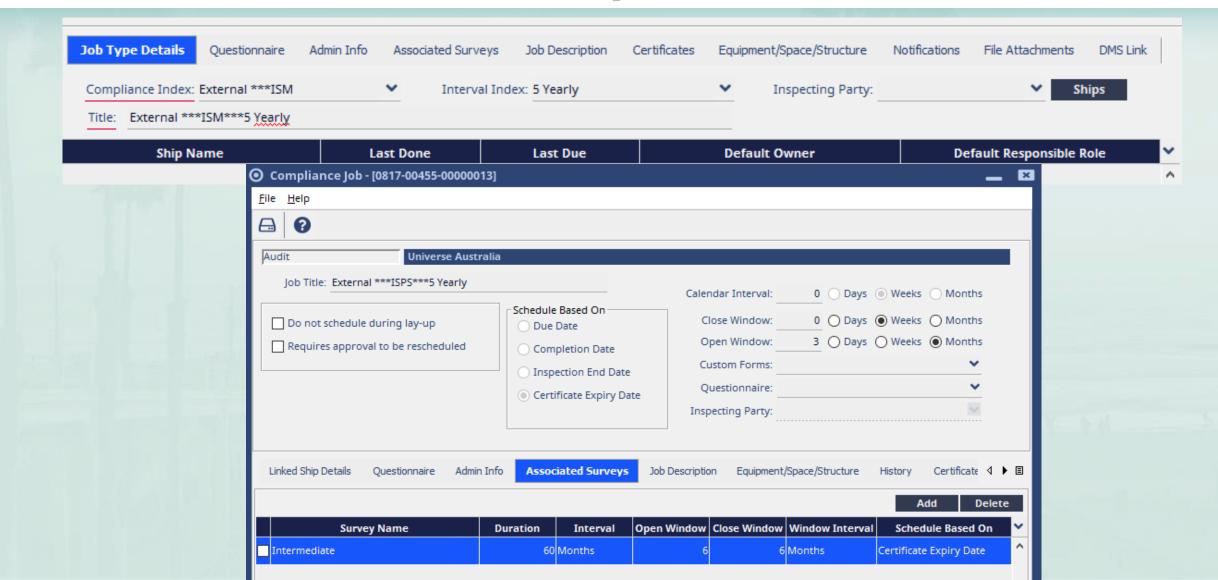
- Links to
  - Q88, Q88 Dry
- Vessel Certificate Dashboard
- Gadgets

- Introduced 6.5.9
  - Enhanced 6.5.27/30





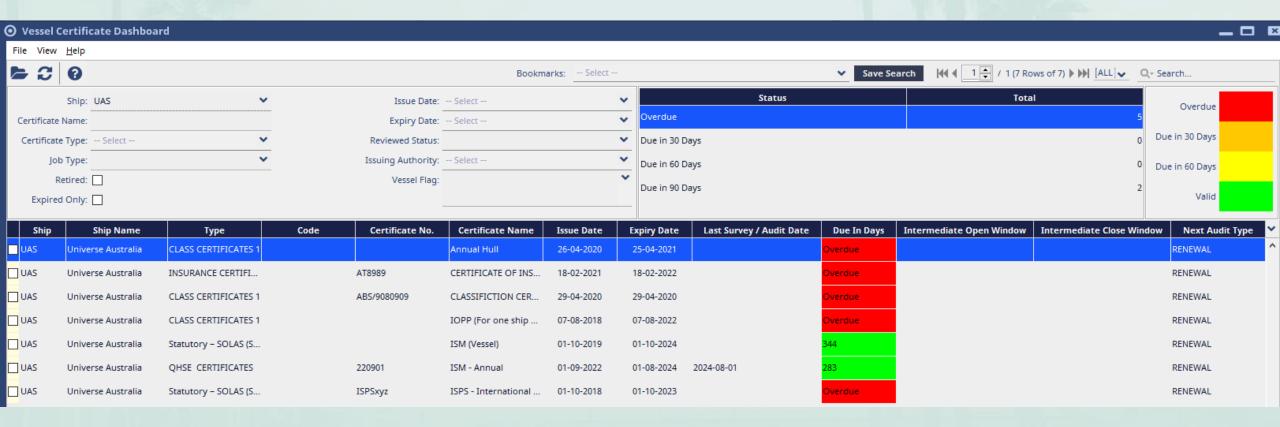
## Setup

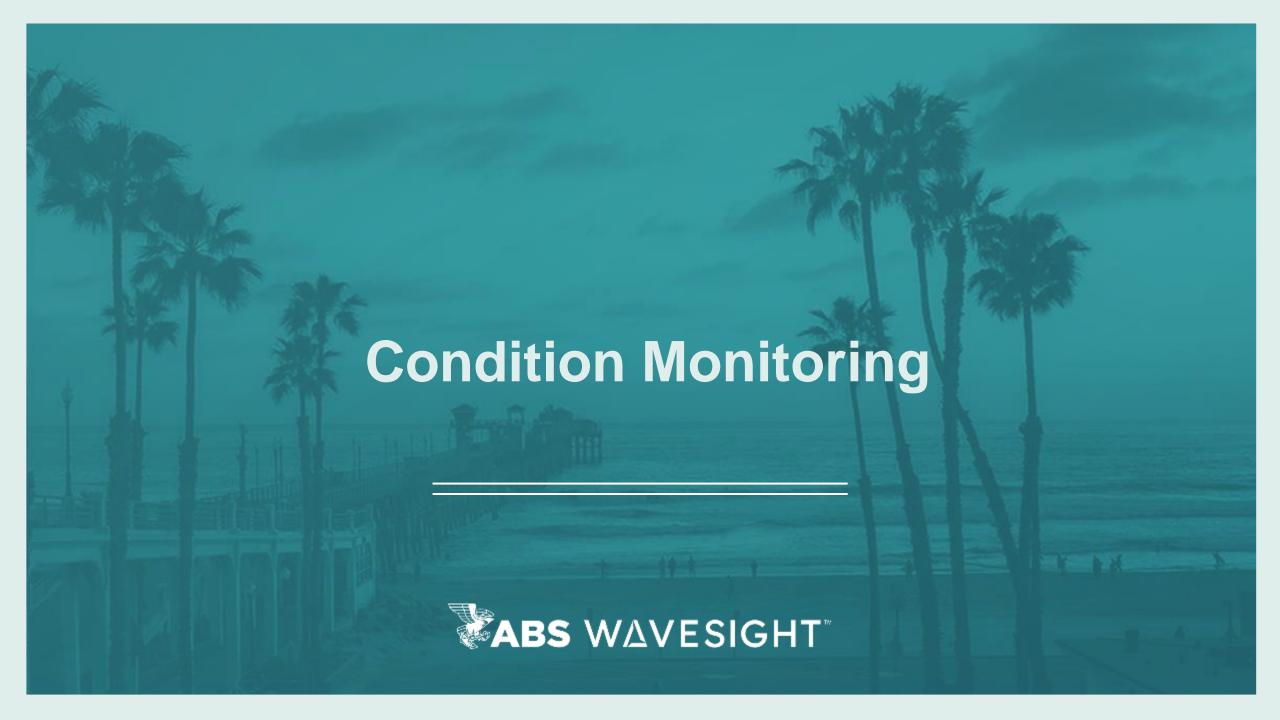






#### **Vessel Certificate Dashboard**









## **Condition Monitoring**

#### Enhances overall management

- All companies do some form of Condition Monitoring
- Two ways for setup of data capture
  - Condition Report
  - Measuring Points
- Define Equipment
- Setup types of Condition Monitoring
- Set up data transfer from Condition Monitoring Providers
  - Oil Analysis
  - Vibration Analysis
  - Boiler Water Analysis
- Data Transfer
  - FTP
  - API

- Dashboard
  - Machinery Health
- Gadgets
- Wizard for creation
  - SIRE or OVID Category
  - Condition of Class or Dispensation

- Introduced 6.5.15
  - Enhanced 6.5.27/30

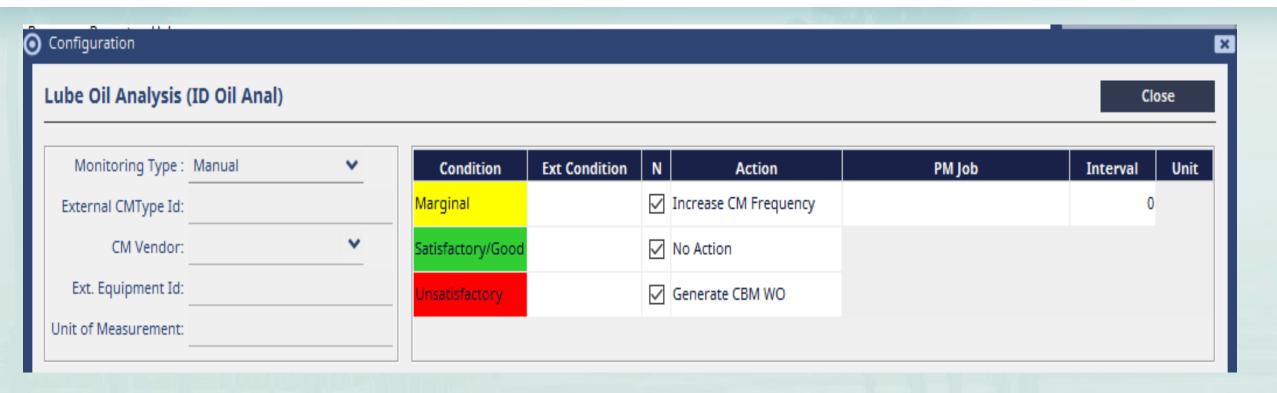




Equipment - HFO Purifie	r #1 (F) - [0104-00000-00014592]					_
<u>F</u> ile Reguisitioning Process	<u>R</u> eports <u>H</u> elp					
<b>□ ⊘ 0</b>						
Universe Portugal*Fuel Oil Syste	ems*HFO Purifier #1 (F)					
Name: HFO Purifie	r #1 (F)			Desi	ignation: Unit	~
Complete Name: HFO Purifie	v		Equipment Code: FO 8000			
Manufacturer: 10946	Alfa Laval Inc.,	Scarborough			Location: E/R 3rd Deck	
Box M-4-10*	ck I, "Centre"*E/R 2nd Deck   A V Rack I, "Centre"*E/R 2nd Deck Rack I, "Centre"*E/R 2nd Deck V		Active	Date I	Installed: ####################################	Year Made: 2006
Barcode:		Size:	4000 L/H		Туре:	
Apply Vendor Restriction	Serialized Equipment Required	IMO No:		Software	Version:	
✓ Condition Monitoring	Type:   Spare   Store			_		
Class Data Class Code:	HID:	Class Status:		Class Equip	oment Name:	
Admin Info Condition Moni	toring Cross References P	Part No. Reference	Sources Counter Setup	p File Attachment		
Status			Monitoring Type		Last Don	
Unsatisfactory	Lube Oil Analysis	(ID Oil Anal)			17-10-202	3 💠







Condition	Ext Condition	N	Action	PM Job	Interval	Unit
Marginal		<b>✓</b>	Increase CM Frequency	Lube Oil Analysis (ID Oil Anal) - 1 M	15	Days





## **Measuring Point**







Machinery Health	1														_
<u>F</u> ile <u>V</u> iew <u>D</u> ocuments	<u>H</u> elp														
Ship Filter Equipment Filter		Date Filter	Date Filter		Source Filter Based On Filter		Status Filter								
☑ AII	All 🔲 All		All La	☐ All ☐ Last Year ☑ Last Report		✓ AII		Select All							
Choose Ship Choose Equipment		Range	Range Start Date: 17-10-2023		Vendor	or IoT		Status:		~					
Ship:	Ship: Equipment:			End Date: 17-10-2023			Crew Cond.Repor								
								Readings							
Ship	Equipm	ent	СМ Туре	Status	Source	Bas	sed On	CM WO V	endor Repo	ort St	Date Time	Problem	Recommendation	WO Nos.	
Universe Portugal	Generator Engine	e #1 (FO)	Lube Oil Analysis (ID O S	atisfactory/Good	Crew	Cond.Rep	port				01-03-2023				
Universe Portugal	Generator Engine	e #1 (FO)	Vibration Monitoring S	atisfactory/Good	Crew	Cond.Rep	port				10-11-2014	No problems found	No maintenance required. R		
Universe Portugal	Generator Engine	e #1 (FO)	Lube Oil Analysis (ID O S	atisfactory/Good			21811	05							
Universe Portugal	Generator Engine #1 (FO) Lube Oil Analysis (ID O Ma		larginal	ginal		21811	8								
Universe Portugal	Generator Engine	e #1 (FO)	Lube Oil Analysis (ID O				21811	2181141							
Universe Portugal	Generator Engine #1 (FO) Lube Oil Analysis (ID O Sa		atisfactory/Good			21850	58								
Universe Portugal	Generator Engine	e #1 (FO)	Lube Oil Analysis (ID O U	nsatisfactory		Readings	21886	99							
Universe Portugal	Generator Engine	e #2 (FI)	Lube Oil Analysis (ID O M	larginal	Crew	Cond.Rep	port				29-08-2022	Problem found, water in oil	Check for leak, replace oil	MULTIPLE	
Universe Portugal	Generator Engine	e #2 (FI)	Lube Oil Analysis (ID O S	atisfactory/Good			21811	06							
Universe Portugal	Generator Engine	e #2 (FI)	Lube Oil Analysis (ID O M				21811	11							
Universe Portugal	Generator Engine	e #2 (FI)	Lube Oil Analysis (ID O M	larginal			21811	17							
Universe Portugal	Generator Engine	e #2 (FI)	Lube Oil Analysis (ID O S	atisfactory/Good			21811	18							







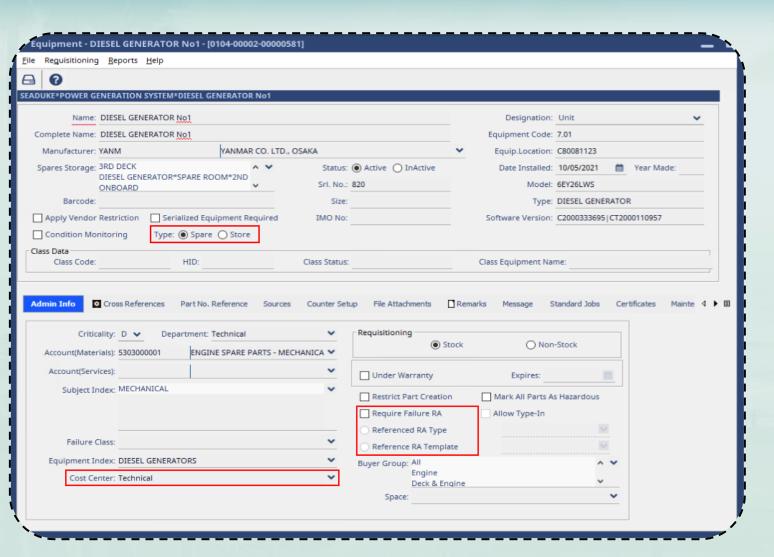
## **Purchasing**

- Cost Centre, Work Breakdown Structure
- Set up of Requisition
  - Required fields
  - At either Authorization or Review
- Equipment defined with, Account, Cost Centre
- Budget enhanced for Cost Centre & Work Breakdown Structure
- Approval Setup
  - Request For Quotation
  - Purchase Order
  - Enhanced granulation setup

Enhanced 6.5.27/28/29/30





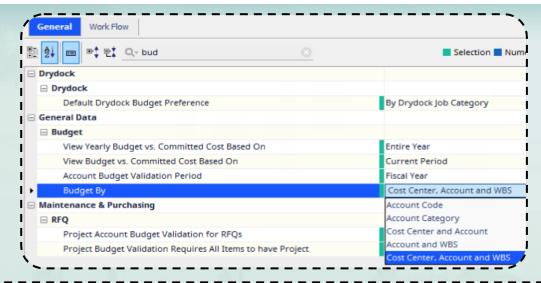


## **Equipment Particulars Updates**

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







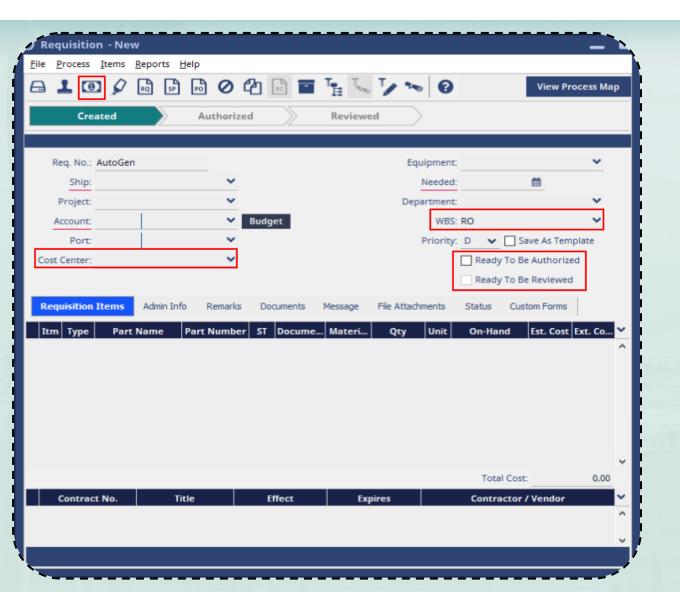
## **Budget New Setup**

- Cost center
- Account
- WBS

Reports <u>H</u> elp									
0									
Ship:		urrency: USD 🗸	Budget Vs Committed	Q+ Type here to filter Budge	Data				
Fiscal Year: 2023		ge Rate: 1,0000000	USD/USD						
Cost Center	Account Category TBD	Account Number	Description LUBRICANTS	DD-SS3-RO	01/01/2023 to 31/01/2023	01/02/2023 to 28/02/2023	01/03/2023 to 31/03/2023	01/04/2023 to 30/04/2023	01/05/
	TBD	546000000	LUBRICANTS	DD-SS3-NO	0	0	0	0	
	TBD	5460000000	LUBRICANTS	DD-SS4-RO	0	0			
	TBD	5460000000	LUBRICANTS	DD-SS4-UN	0	0	0	0	
	TBD	5460000000	LUBRICANTS	RO	14.593	13.181	14.593	14.122	
	TBD	5460000000	LUBRICANTS	UN	0	0	0	0	
-CHEMICALS									
	TBD	5470000000	CHEMICALS	CPX-BTT	0	0	0	0	
	TBD	5470000000	CHEMICALS	CPX-CAP	0	0	0	0	
	TBD	5470000000	CHEMICALS	CPX-CBM	0	0	0	0	
	TBD	5470000000	CHEMICALS	CPX-EPL	0	0	0	0	
	TBD	5470000000	CHEMICALS	CPX-INNOVAT	0	0	0	0	
	TBD	5470000000	CHEMICALS	CPX-MAJORD	0	0	0	0	
	TBD	5470000000	CHEMICALS	CPX-MAJORE	0	0	0	0	
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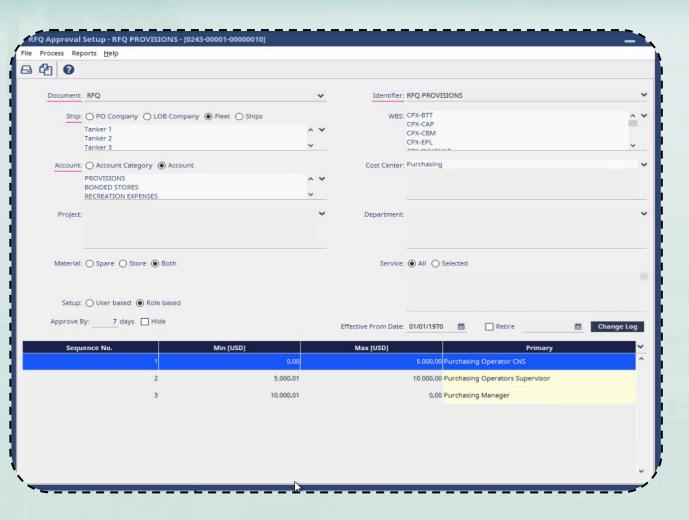


## **Requisition Updates**

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





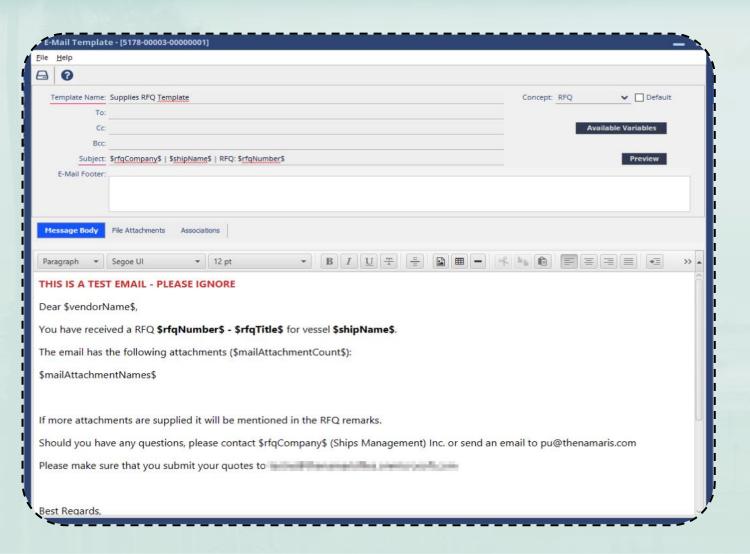


## **Approval Setup Updates**

- Request For Quotation, Purchase Order
- Vessel, Fleet, LOB, PO Company
- WBS
- Account or Category
- Cost Center
- Project
- Department





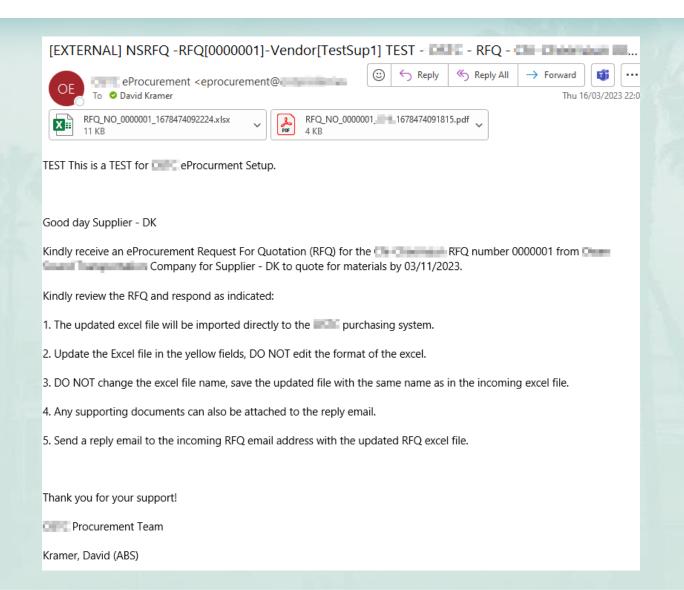


## eProc Mail Templates

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



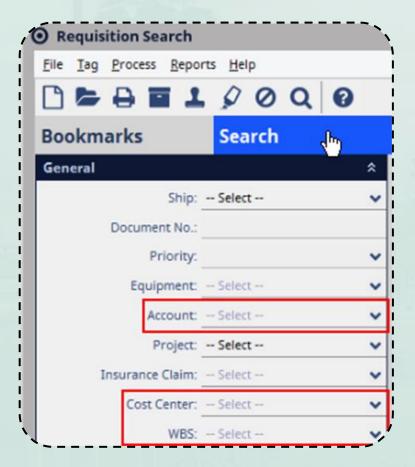


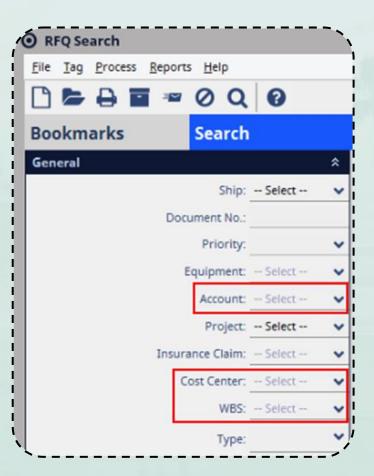


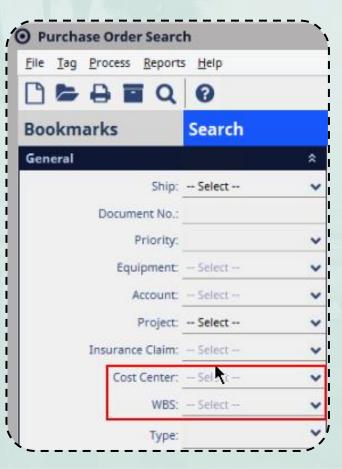




## **Search Updates**











## **Freight Forwarding**

- Consolidation, Warehouses
- Freight Forwarders
- Moves purchasing information in and out
  - Issued PO Export
  - Materials Receipt Import
  - Shipping Instruction Export
  - Shipping Manifest Import
- Enhanced 6.5.30







## **Gadgets**

- Many new Gadgets
- Dashboards
  - Management by Gadget
  - Management Overview
  - User Dashboards
- I am the Approver
- Tasks
- Push Gadgets to Users











### RTF/html Support

NS Enterprise has been enhanced to support rich text description in Text Data with a rich text editor which will support multiple features like:

- Text Editing including Bold, Italic, Underline, Font type and size selection, superscript, hyperlinks etc.
- Text formatting including bullets, numbering, tables, etc.
- Insertion of photos into the text
- Pasting of formatted text into the editor
- All sites must be above 6.5.28.





## **Drydock**

#### Clients often use standard tables

Table 1: Requirements to be included in the work scope, Information provided, and Materials.

Requireme	Inspection/Surveys Materials Supplied				
Item		Required			
Access work	Yes	Staging		Classification Surveyor	Yes
Cleaning Before job		Testing - Function	Yes	Flag Surveyor	
Cleaning After job	Yes	Testing - Pressure		Manufacturer or Service Contractor	
Correction/Updates		Transportation -		Owner's	
to drawings		Inside yard		Representaive	
Corrosion		Transportation -		Underwriter's	NA
protection		Outside yard		Representative	
Craneage		Ventilation		Materials Supply by Ship	NA
Gas Free Certificate		Certificate/Report Post Tests	Yes	Materials Supply by Yard	NA
Lighting	Yes	Others		NA	NA
Paintwork		Others		NA	NA

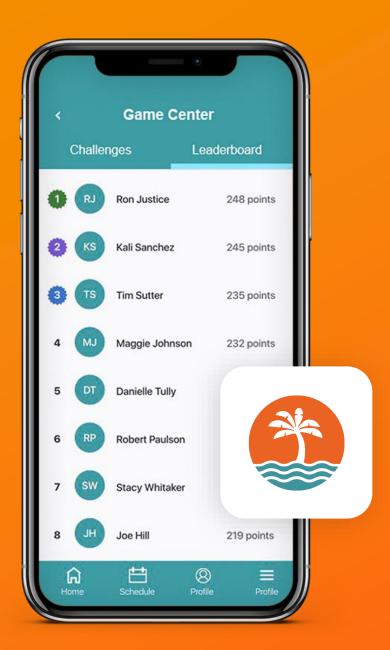


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