

Departamento de Engenharia de
Máquinas Marítimas

BASSnet Project Module



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By: **Daniel Alexandre de Melo e Costa**

Coordinator: **Prof. Luis Filipe Batista**

Co-Coordinator: **Prof. António Oliveira**

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Resumo

A administração e controlo do processo de Docagem de um navio envolve tarefas de complexidade elevada. Geralmente os Superintendentes utilizam ferramentas / softwares (por exemplo: Refman, folhas excel, Sistema ERP BASSnet, etc.) como base de suporte para a preparação e controlo.

Um Sistema ERP potencia a melhoria neste processo e as suas inter-relações entre processos. No âmbito da minha experiência profissional na Stolt Tankers, com a utilização do sistema ERP da BASSnet, onde um Módulo de Projetos pode ser usado tanto no controlo como no planeamento de todos os custos inerentes a uma docagem, identificou-se que este ainda assim tinha lacunas significativas e não correspondia às necessidades do utilizador, designadamente o sistema deveria permitir que o Superintendente cumprisse com os procedimentos e requisitos financeiros, em particular durante a execução em Estaleiro, todavia tal não estava disponível.

Após uma análise profunda e detalhada do próprio sistema, houve a necessidade de identificar todos os requisitos necessários à mudança e implementá-los para aprimorar a funcionalidade do Módulo de Projectos BASSnet garantindo assim um modo fácil e rápido para controlo de custos da docagem através de um ponto central.

O resultado dessa melhoria traduziu-se numa redução significativa do tempo dedicado por parte do Superintendente durante o processo de docagem e controlo de custos, originando melhor qualidade para a equipa técnica em tarefas de valor acrescido ao nível da gestão, com um resultado inovador directamente no ERP.

Embora não tenhamos acrescentado nada ao processo de Docagem, apenas aprimorou-se a ferramenta de controle das Atividades de Gestão de Projetos, controle de custos e gestão do tempo do superintendente. Com o desenvolvimento desta melhoria nesta ferramenta/módulo, a Stolt teve um bom retorno.

Palavras Chaves: Uniformidade de Processo, Optimização de Tempo, Informação Controlavel, Informação explicita, Informação Contavel.

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Abstract

Administrating and controlling a Dry Dock process is not always easy, and Superintendents usually use complementary tools/software (e.g.: Refman, excel sheets, BASSnet ERP System, etc.) to administrate and track their budget versus actual cost together with the progress overview when conducting a dry-dock project.

The BASSnet ERP system had a Project Module that could be used to control and create all Dry Dock project costs however it was facing significant gaps and was not meeting the user's needs. The system should allow the Superintendent to comply with the financial procedures and requirements but was not supporting him in the actual docking and control.

After doing a deep analysis of the system itself, there was a need to gather all the business requirements and implement it to enhance the BASSnet Project Module functionality resulting in an easier and faster way to control the dry dock costs, from one centralized point only.

The result of this enhancement also suggested that there was a significantly reduced consumption time by the technical superintendent during the dry dock process and cost control, allowing him and to his technical team a better quality time for the jobs/tasks to be done during the Docking period.

Although we did not add anything to the Dry Dock process itself, we only create a control tool for improved Project Management Activities, cost control during Vessel Dry docks and technical superintendent time management. With the development of such improvement on this tool/module, Stolt Tankers had a very good revenue.

Keywords: Standard Process, Time Consuming, Explicit data, Accountable data, Controllable data.

Author's Biographical Sketch

A graduated Son from Escola Superior Nautica Infante Dom Henrique (ENIDH) Daniel Costa is a high achiever who is committed to continue pursuing a career in the Shipping Industry. He currently works as a Maintenance Systems Project Manager for Royal IHC in Kinderdijk, Netherlands.

In 2000 he started his Shipping Industry career by joining ENIDH as a student, and in 2004 he was able to get his Bachelor's degree as a Mechanical Marine Engineer. In 2011 he completed his degree with a high degree/ Licentiate as a Mechanical Marine Engineer.

In 2005 he started to work as a Marine Engineer, for General Maritime Corporation LLC , and until 2014 still at General Maritime Corporation LLC, he played several roles that did help him to build a good Shipping background knowledge. Among those roles: Marine Engineer, Purchasing Officer, Superintendent Assistance/PMS Controller, Data PMS Coordinator. In 2014, General Maritime Corporation LLC decided to cease its activity in Portugal, moving all its technical departments to an Indian management company . With the General Maritime Corporation LLC move, Daniel decided to proceed his career as Business Analyst (BA) at Stolt Tankers Head Quarters in the Netherlands. So in November 2014, he started his joint venture with Stolt Tankers.

In Stolt-Nielsen Ship Owning division and as a Business analyst, Daniel did lead several processes transformations projects like: (BASSnet all modules, including as well the Projects module), Port forms, Warehousing, Maintenance KPI reports development, Business Control, and Purchasing streamline processes, PMS database analysis, etc. Earlier In 2020, he decided to move forward in his career, and applied for a new job as a Maintenance Systems Project Manager at Royal IHC. On this new role, he is responsible for Project Management and delivery of a dataset for any common, planned maintenance/maintenance management system currently available in the market for the shipping industry. He takes an active role in the sales process, maintaining contact between the internal /external customer to determine the requirements for the system to be delivered. Controlling the budget during the project execution and that the project is delivered in time. He assures support to the customer with the commissioning system, ensures that the crew is well trained, and he takes the lead of a small team of maintenance engineers and external vendors abroad.

As a hobby Daniel loves to read, and enjoy dance Salsa. He also sports Karate since 1987, and he holds black belt 4^oDan.

Dedication

I dedicate my dissertation work, especially to my Son, Family, Girlfriend and many Friends. A special Love feeling of gratitude to my loving Son, Guilherme, who Love gave me the encouragement booster and push for resilience ring in my heart. My parents, José and Maria Acácia, my Sister Carolina, have never left my side and who has always loved me unconditionally and whose good examples have taught me to work hard for the things that I aspire to achieve. And finally my Girlfriend Helena by keeping my motivation focus at a very good stable level, and consistence.

I also dedicate this dissertation to my many friends who have supported me throughout the process. I will always appreciate all they have done. In especial, Jose Milhazes and Marta Botelho, helping me to develop my knowledge skills, for taking the hours of proofreading, and for helping me understand the technical business side point of view.

I dedicate this work and give special thanks to my best friends that were always by my side during these hard past two years, and without their help and support, this thesis would never be complete.

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In November 2014, I was hired to work as a Business Analyst, for Stolt Tankers in Rotterdam, Netherlands. My manager at that time was José Milhazes. My time at Stolt Tankers has been high productive and working with the Stolt Nielsen, Ship Owning Business Application (SNSO-BA) team was an extraordinary experience. All the work presented in this thesis is owed to my time at Stolt Tankers. Jose Milhazes as a manager, at Stolt tankers, kindly assisted me with all the development of this project and was very patient with my knowledge gaps in the area. I must also thank all my colleagues at the Department of SNSO BA, especially, Rohit Soni, and Ho Liong, for allowing me to grow, and to share all our knowledge during brainstorming sessions (even the off-the-record ones, outside office hours, at Captains Cabins). Most important, none of this achievements could have happened without the dedicated support from all BASSnet team experts from the developing and support team who were involved in the developing of all Changes Request, that was built in a joint venture with Our team at Stolt tankers.

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Glossary

Abbreviation	Description
ACC	Account Code
BA	Business Analyst
BOD	Board of Directors
CAPEX	Capital Expenditure
CBA	Crew Base Allowance
CCR	Cost Control Report
CR	Change Request
DB	Data Base
DD	Dry Dock
ERP	Enterprise Resource Planning
GL	General Ledger
HFO	Heavy Fuel Oil
HR	Human Resource
ID	Identification
IPN	Identification Personnel number
MD	Managing Director
MDO	Marine Diesel Oil
PMS	Plan Maintenance System
PO	Purchase Order
QTY	Quantity
RFQ	Request for Quotation
STD	Standard
UI	User Interface
X-Job	Extra Jobs

1. Introduction

A. Process Definition

At that moment users were using complementary tools/software (e.g.: Refman / excel (CCR form provide by Business control department) and/ or BASSnet project module) to administrate and track their budget vs actual costs together with the progress overview, when conducting a dry-dock Project.

There was not a clear tracking offered by the provided software once the budget was approved, between the actual Owner's vs Yard costs.

B. Process Objectives

The objective was to enhance the BASSnet Project Module to allow the users to control the dry-dock costs in an easy and faster way from 1 centralized point only.

All the data coming from this centralized point should be explicit, accountable, and controllable [5].

After almost two full years of using BASSnet Projects to conduct Dry Docking and other CAPEX projects. A review was requested by the business, of the process quality of the tool and managing the issues.

In general, the feedback from all the Technical Superintendents was that they were working for the System and not the other way around, as it should be.

It was far more complicated and time-consuming for the entire Docking process and it was required too much attention and time, time that should be spent doing physical inspections on board and controlling the actual docking job.

Considerable amount of bugs, issues, and change requests were filed and the response time from BASS was very poor in the resolution of those reported items, meaning not in time. Apart from that often delaying the patches to be delivered that could bring fixes for other BASSnet modules. Also in-house, from the customer size, the response to those issues was found to be quick however, resolving and implementing was slow and sometimes delayed without any kind of information. The impact of some patches might have been understood, however, it greatly was affecting the quality of the program and the way to work with it, with direct impact on the Technical superintendent activity.

In the meantime, many workarounds were created, some by individual Superintendents, meaning that there was a lack of consistency in the procedures of how to tackle the discrepancies within the program, summarizing , waste of time.

Working with Projects progress was smoothly in the “Generate Spec” stage, however, the moment that the user arrived at the yard and start the docking process, the problems raised, especially in the financial reporting side and monitoring/controlling of the expenditures.

The program allowed the Superintendents to comply with the financial procedures and requirements but did not give any support in the actual docking and controlling as it should [4],[5].

C. Motivation of Request to BOD

At that moment, The BASSnet Project module, was still having gap's and it was not meeting the User's needs [4]. This tool should be used to control and create all Dry Docks project costs, which would include the following steps (as per BASSnet Systems process):

- Preparation of a Yard Specification;
- Approve the Yard Specification;
- Send the Specification for a Yard to Quote;
- Compare quotes;
- Award a yard;
- Control the ongoing costs, and project progress during DD period [5].

The acceptable, modules/processes of the program (BASSnet 2.9):

- Preparation of a Yard Specification
- Accurate job description with database information available.
- Interface with Procurement section for PO's.
 - Connecting to Section only at the moment
 - Updating financials automatically when Fully Received and Paid
- Interface with PMS system and Maintenance Module.
- Possibility to create history and extract future reports and trending.
- Flexibility with updating PTD's and forecast (end of docking).
- Flexibility in Quotation sheet for entering bids.
- Option to copy jobs from sister ships and old projects
- Possibility to connect to Maintenance & Reliability KPI's

The development of this tool should reduce the workload and simplify the cost control.



Unacceptable modules/issues of the program (BASSnet 2.9):

- Time consuming in:
 - Daily updating of progress when at the yard
 - Cost Control section
 - Project Budgeting
 - Actuals
 - Daily Progress
 - Exchange rate issues within Quotation sheet
 - Dry-Docking Specification Creation
 - Max size of Job Description 1 MB
 - Inserting pictures/drawings manually after spec generated
 - Or sending additional information separately.
 - Entering Discount into Quotation, amending and then adding an Early Settlement agreement was not possible within the program, but X-jobs to be used.
- Financial incompatibility [5]
 - Yard bid exchange rate – hedge rate and final invoice exchange rate, figures where never matching.
 - Progress reporting of Owner's PO's and status.
 - Quotation module, exchange rates
 - Manual calculations when entering adjustments, at the moment business was still waiting for a fix from BASS
 - BASSnet Projects is not the accounting tool, CCR is where sign-off happens.
- Unreliable data

- Too many issues requiring fixes, however impact of implementing patches affects other areas and many times, jobs, information or spec were getting lost.
- Often difficulties to trace where certain figures were coming from or how those were calculated.
- Program was not updating automatically, having to close and re-open to refresh and thus creating risk of using wrong information.
- Connectivity
 - Dependent on a reliable internet connection
 - Dependent on Citrix and Stolt user access
 - No off-line possibilities
 - Projects on board is too limited in its information shown, can't be used for Superintendent to update and review, only specification is visible.
- Progress Reporting [4]
 - No Daily Progress status update
 - Updating Progress Overview module was very time consuming
 - No Owner's PO's status were included
 - When starting job, the budgeted amount does not become a committed amount. Only on completion, budget becomes actual and actual can be updated where needed.
- Financial Reporting [5]
 - No Cost Variance Report
 - Final Report superficial
 - Data loss in Quotation when ship reports job completed
 - Owner's Cost at pre-dock approval to be frozen, this amount was not staying the same.
- Project Completion
 - In practice, the BASSnet financial figures never match the CCR (Cost Control Report) [5]
 - Once Project is closed, the Jobs, Tasks and Documents were no longer available

2. Objective

Suggested Improvements :

- Quicker feedback and response from BA(Business Analyst) and BASS;
- Quicker implementation of fixes of bugs and requests;
- Provide 4G modem for Superintendent to have reliable internet connection everywhere;
- Resolve the High Priority items on current list of bugs and issues;
- Have Superintendent close all dry dock jobs with proper information and measurements/reports; [4]
- Create proper instructions for complete docking process in 2.9, [4],[5];
- Freeze option for Quotation at time of awarding, to maintain that financial condition, [5];
- Freeze option for approved Owner's costs when awarding of Yard;
- For costs, only totals and comparison sheets should be in USD, all else in bid currency [5].
- Discount should allow for excluding NET items instead of adding discount for each task. Within Progress Overview, the discounted amounts should be shown and actuals to be updated as per invoice amount.

3. Scope

A. Business Requirements

From previous discussions and raised questions, various business requirements were already captured and raised with the vendor BASS as change requests (CR) [1].

There were at that moment 36 change requests, pending with BASSnet. Based on the feedback from the end users we were able to find others GAP's on top the 36 already addressed sent to BASS as Change Requests. Focus on reviewing the full DD process.

Process (Repair/Dry-docking) Objectives:

User	Initials	Role	Meeting Date
Arie Huisman	HUI	Superintendent	16-02-2016
David Scott	DSO	Superintendent	16-02-2016
Christopher Lloyd	CLL	Superintendent	17-02-2016
Bas Krogt	BKT	Superintendent	18-02-2016
Erik van Gastel	EVG	Fleet Manager	18-02-2016
Hans de Werk	JWD	Superintendent	18-02-2016
Mikhail Kotelnikov	MKO	Superintendent	18-02-2016
Edo van der Velde	EGB	Superintendent	22-02-2016
Pierre Domine	PDM	Superintendent	22-02-2016
Vladimir Nazarov	VNZ	Superintendent	22-02-2016
Igor Karagodins	IKA	Superintendent	Shared docs
Hannie Visser	HVI	Accounting Manager	02-03-2016
Justus Schokker	JSC	Project Controller	02-03-2016
Fleets Meeting	All	Fleets Meeting	07-03-2016
Jose Rocha	XJR	Superintendent America	07-03-2016
Sergejs Kuzins	SKZ	Superintendent America	07-03-2016

Table 1 - List of Users

Depending ship's age, ships trading pattern, in-water surveys Stolt usual dock the ship every two and half years.

The main propose of DD/repair the ship are to guarantee a continuous operational Performance and Reliability by [4]:

- To do and comply with Class Society Inspections/Surveys and required repairs observed/noted by them
- To repair any open defects noted in between DD that cannot be done during ship operations
- To do all Schedule Preventive Maintenance tasks required and just feasible in a Dry-Docking (e.g. Propeller; Sea Chests; Bottom Valves; Steel renewal; Bottom Plugs; etc)
- To do all Schedule Preventive Maintenance tasks required gas-free condition, to minimize ship operations down time
- Execute full routine inspections to areas where the accessibility are restricted under normal ship operations.
- Equipment's renewal as per life-cycle (End of Life) or to comply with new legislation requirements.

Hereby a status overview which BASS have split by the following submodules:

- Master Data Setup;
- Project Creation (New);
- Project Budget Approval;
- Alerts;
- Execution;
- My Approvals;
- Module visibility;
- Planning;
- Reports;
- Yard Management.

B. Dry-Dock Process Diagram

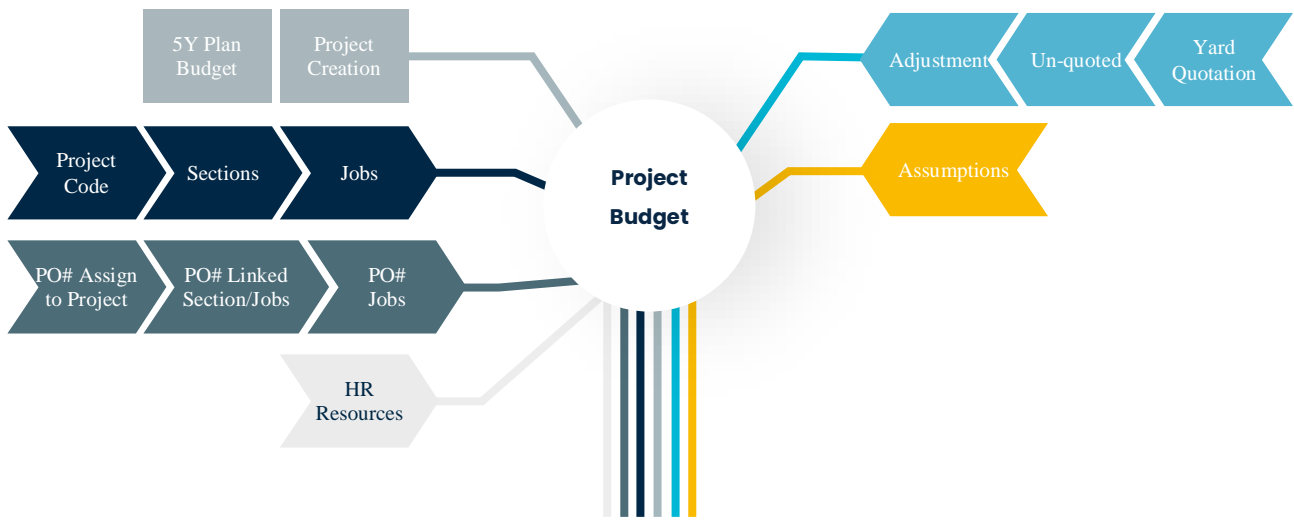


Figure 1 - DD Project Build input

Dry-docking Project Budget build input:

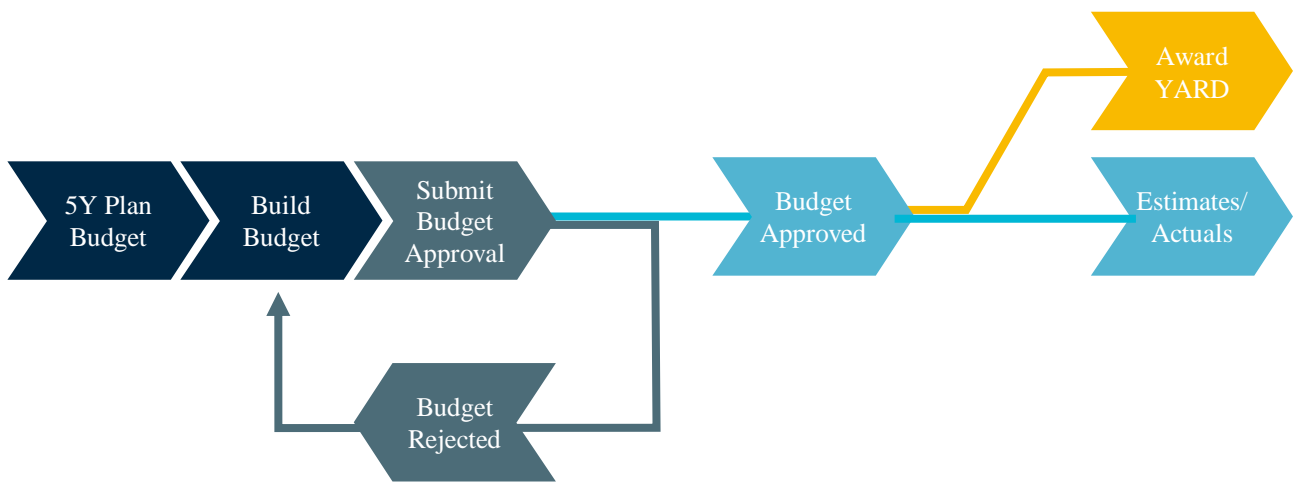


Figure 2 - Budget Approval Flow

Budget Approval Flow:

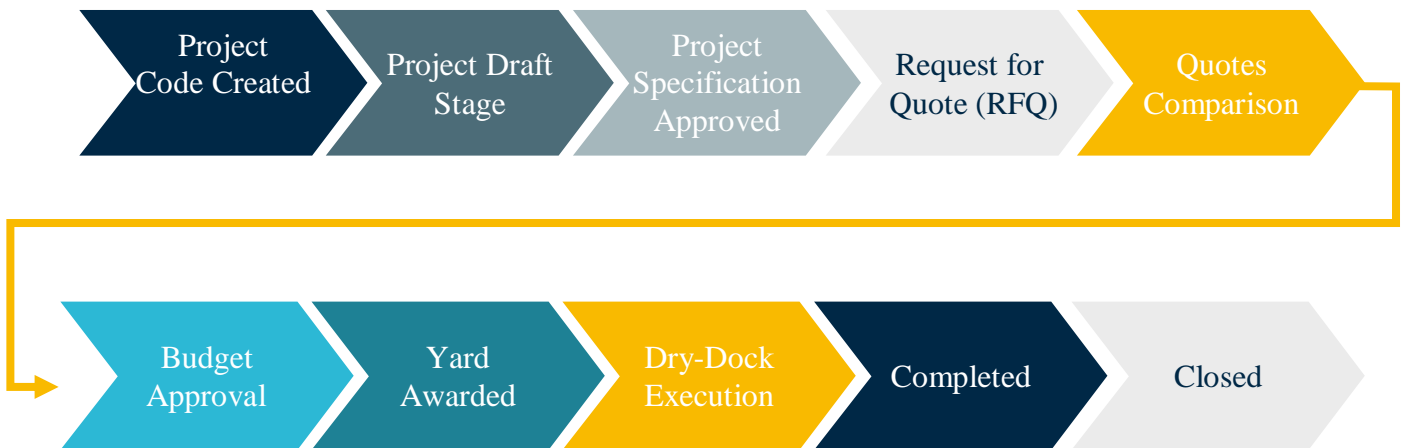


Figure 3 - Process Flow in BASSnet

Definition, from the start until the closing of the project as per Figure 3:

Project Code Created → Business control, to create, first to create a code in Oracle and them in BASS [5];

Project Draft Stage → Prepare the Specification according with the needs. It's possible to add new section from scratch or base on standard spec, or previous/closed projects of any Ship. It possible to add new jobs (New job, Job order, Schedule job). Add defect it's also possible, [4];

Project Specification Approved → Once the spec, it's approve, the spec, must be send for quotation (RFC), for one or more selected YARDS.

Request for Quote (RFQ) → Once the Spec is send for quotation the status of the project will be Tender, As soon as the bid is received from the Yard, the excel file can be directly uploaded on the system.

Quotes Comparison → After the quotation file it's uploaded on the system, the status will be now quoted. Still the super can add one or more Supplementary jobs, and request a quotation only for those S jobs.

Budget Approval → This is not a Status on BASSnet, but it makes part of the Pre-docking budget Stolt approval process. After the bidding is complete and final approval is obtain from the MD (Managing Director), then Superintendent can then proceed to the next BASSnet step/status.[4],[5];

Yard Awarded → Once all the quotes has been received, they can be compared and a YARD can be awarded. Then the project can be started.

Dry-Dock Execution → On this project phase the ship will be already in DD, then a progress overview can be follow up, by reporting jobs, cost controls, update costs, add Extra jobs

Completed → Sailed from yard (which should trigger the actuals in the yard invoice)

Financial Close → Once all the jobs are completed on progress overview, an end date can be enter, and the project can be now closed [5].

C. Business Requirements

Dry-Docking Project Management Main Stages:



Figure 4 - DD Management Main Stages

Main Groups Activity's and Key inputs [4],[5]:

- **Stage#1 – Data Set up**
 - Activities: Define a new project or new phase, identify stakeholders, and Pre-data set.
 - Key Inputs:
 - Project Standard Spec
 - Standard Jobs
 - Standard Registers
 - Budget Approval set up
 - Stakeholder Register
 - Jobs Templates

- **Stage#2 – Project Spec Creation**
 - Activities: Create Project Specification identify Jobs/Task required to be deliver.
 - Key Inputs:
 - Project Management Plans and related Documents
 - Scope
 - Requirements
 - Schedule
 - Cost

- Quality
 - Human Resources
 - Communication
 - Risk
 - Procurement
 - Change
 - Stakeholders
- **Stage#3 – Project Budgeting**
 - Activities: Group Quotes and Spilt by Own and Yard cost. Get Initial Budget approval and Award the Yard
 - Key Inputs:
 - Yard Quotation
 - Select suppliers and yard agreement
 - Budget Approval
 - Communication
- **Stage#4 – Project Execution**
 - Activities: Yard PO creation, start Jobs reporting
 - Key Inputs:
 - Project Deliverables
 - Work Performance Management (Data)
 - Team Performance Assessment
 - Project Communications to/from (e.g. status report)
 - Issues tracking
 - Changes Log
 - Approval change requests
 - Schedule Forecast
 - Cost Forecast
 - Quality Control measurements
 - Verified Deliverable
 - Accepted Deliverables
- **Stage#5 – Project Follow-up**
 - Activities: Finalize all activity's from project execution
 - Key Inputs:
 - Review Issue tracking and assess open Risks
 - Report/close all tasks evaluate the quality
 - Ensure all testing activity were required are logged
 - Create an overview of all low or undelivered jobs/tasks

- Perform the Yard Evaluation
- Deliver the ship to operations

- **Stage#6 – Closing**

- Activities: Finalize all activity's from project cost
- Key Inputs:
 - Review Initial Budget add changes vs service deliver
 - Budget vs Actuals
 - Check with Business Control

4. Change Requests

A. Project Data Set-Up

CR3704 - Enter Budget without Yard quotation

Description: Keeping in mind that the projects module is used not only for Dry-docking projects, but also for New Building and other CAPEX projects, we would require the system to allow us insert budgets for owner costs per section without having to send a quotation to a Yard. Currently we need to go through the Quotation process, insert at least 1 yard task and pretend to send and upload the quotation in order for the system to allow us to insert the budget for OWNER costs. Every project has a budget for its sections and in projects other than dry-docking yards/suppliers are not involved and do not need to receive quotations. Create an option when status is Specs Approved for user to insert budgets for owner costs per section in Cost Control screen. Some Projects in Shipping do not required Yard. E.g. : Equipment renewal. BASSnet should allow to create a project and build/input cost estimation using just Own Jobs/Task , by using the assumption.

On Budget/Cost Control screen, if a project is before Spec Approved status, assumption amount and PO linked to the project will be taken as budget.

Budget/Cost Controls:

1. If a project before Awarded, value of budget column is capture from assumption.
2. If a project is awarded onwards and does not have any yard task, value of Budget column is capture from assumption.
3. Any PO connected to the section, will falls under committed column.

Budget/Cost Control

Vessel Code: **APCI** Vessel Name: **Apollo Century I** Quoted Curr. Code:
 Project Code: **INCINERATOR** Project Name: **Installation of New Incinerator** Quoted Curr. Rate:
 Yard Code: Yard Name: Used Curr. Rate:
 From Date: **3/31/2016** To Date: **6/19/2016** Project Budget: **0.00**
 Est. Cost: **.00** Actual Cost: **.00** Remaining Budget: **0.00**

Section ID	Section Name	Account No	Total Jobs	Deviation	Budget	Committed	Actual (s)	Deviation	Budget (Yard + Owner)	Committed
A	Removal of Old Incinerator		2		3,000	.00	.00		.00	.00
B	Installation of new Inciner...		1		.00	.00	.00		.00	.00
Total				.00	.00	.00	.00		.00	.00

Project Jobs (Apollo Century I)

Project: **INCINERATOR - Installation of New Incinerator**
 Section: **A - Removal of Old Incinerator**
 Job Status: **Not Started**
 Project Status: **Draft**
 Approval Status: **Not Started**

No: A.1 * Description: Removal of all pipes and connections Defect No:
 Job type: Project * Department: Engine Claim No:
 Account No: Priority: <None>

No	* Description	* Job Category	Cost Category	Account Code	Unit	Quantity	Unit Price	Amount	Comments
1	Cropping and r...	OWNER				1.0000	500.0000	500.00	
2	Disconnection ...	OWNER				1.0000	2,500.0000	2,500.00	

Figure 5 - Budget/Cost Controls

Progress Overview:

1. If a project is in progress and does not have any yard task, value of Budget column is capture from assumption.
2. When the job/task report as completed, amount of Budget will default to Actual Amount.

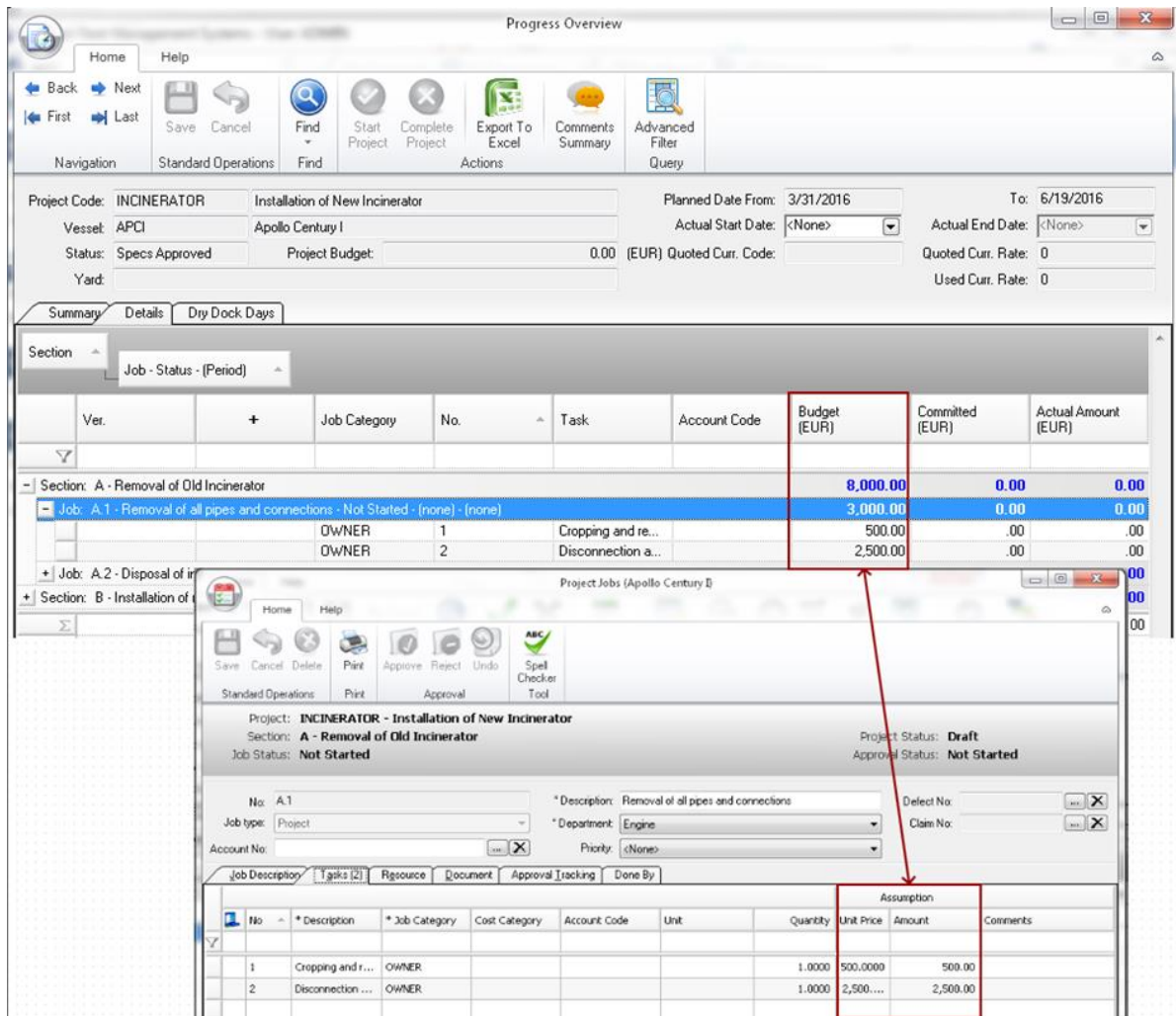


Figure 6 - Progress Overview

CR5559 – Approval set-up – Calculation

Description: Project Budget approval is not the same as Procurement approval, Project budget is based on estimates. Initial Project budget requires different roles. The only Approval existing in BASSnet Projects is for Yard Awarding (Figure 7 below).

There's several stages in approval, initial budget approval, Project Budget deviations and Final Cost deviation. #1 As you already have an Award Approval system should also have for Project Budget approval. #2 Approval amount need to be Captured for total amount create like a freeze with all pre-award YARD Totals (BID + Adjustments and Un-quoted) and Own Totals (PO's/Invoices + Assumptions + T-fitters and T-coaters (assumptions or total CBA).

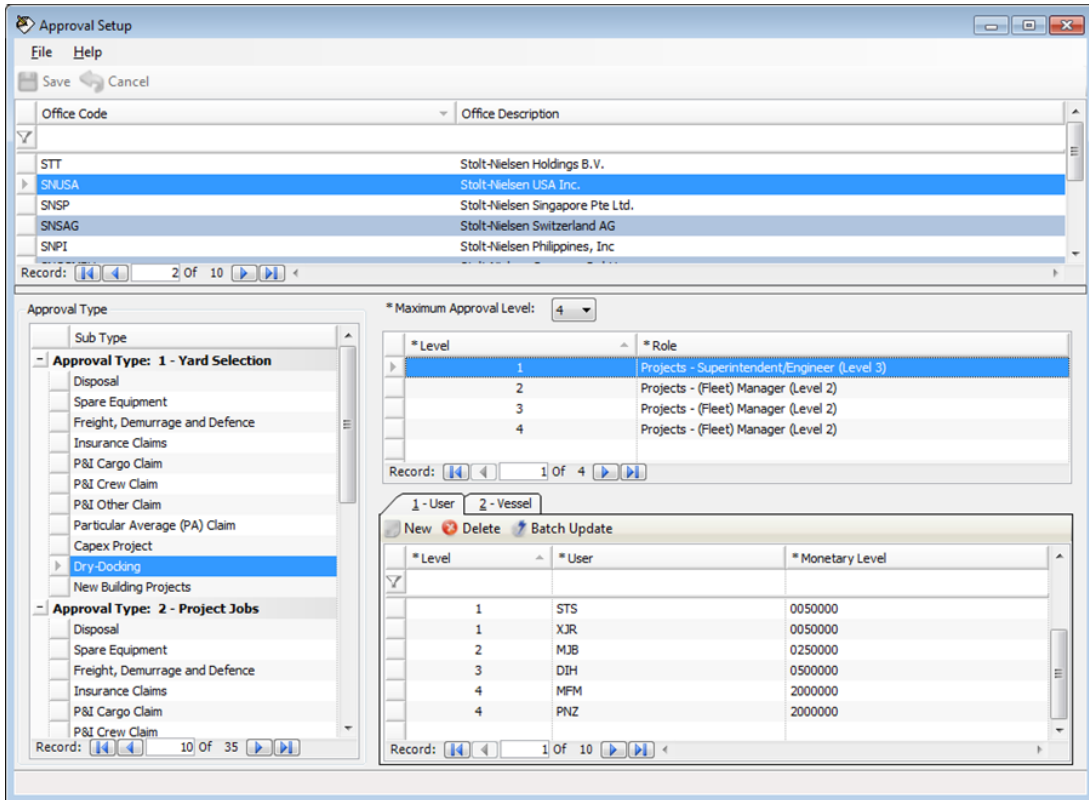


Figure 7 - Approval Setup as it is

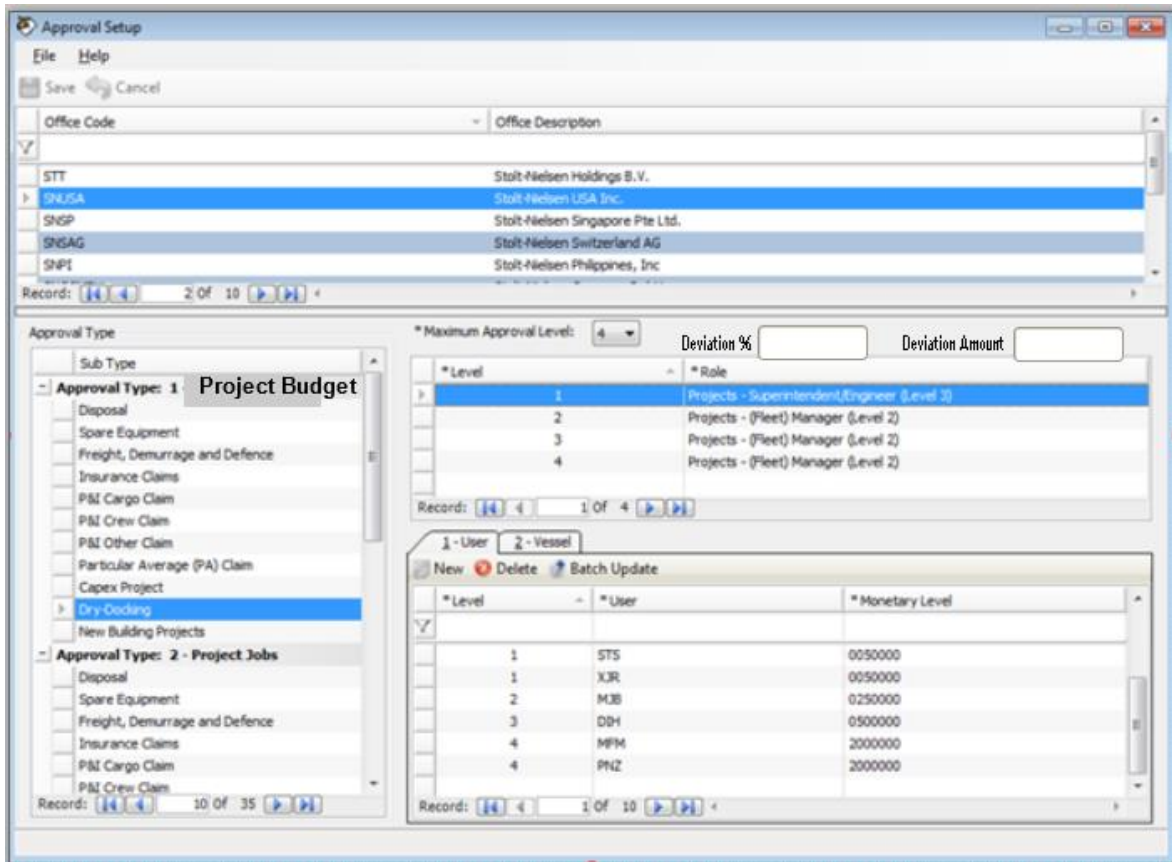


Figure 8 - Approval Setup as it should be

Deviation % and Deviation amount is setup per sub approval type (e.g. Dry-Docking). These two fields only available for Project Budget approval type.

Update Yard Selection as Project Budget, Awarding a yard does not need to go through approval process. If a budget is rejected, the Superintendent can adjust the budget or change to another Yard to re-submit the budget approval.

CR5560 – Approval Workflow – Project Budget Amount

Description: The Project Initial Budget Approval should be set-up as the same way BASSnet Projects have for Yard Selection.

As per the Monetary level and in comparison with total Initial Budget calculated the Approval need to go until the level required. Each and every level may have one or more Users. Any Rejection need to bring the request to initial phase and required a rejection comment. The requester can undo the request.

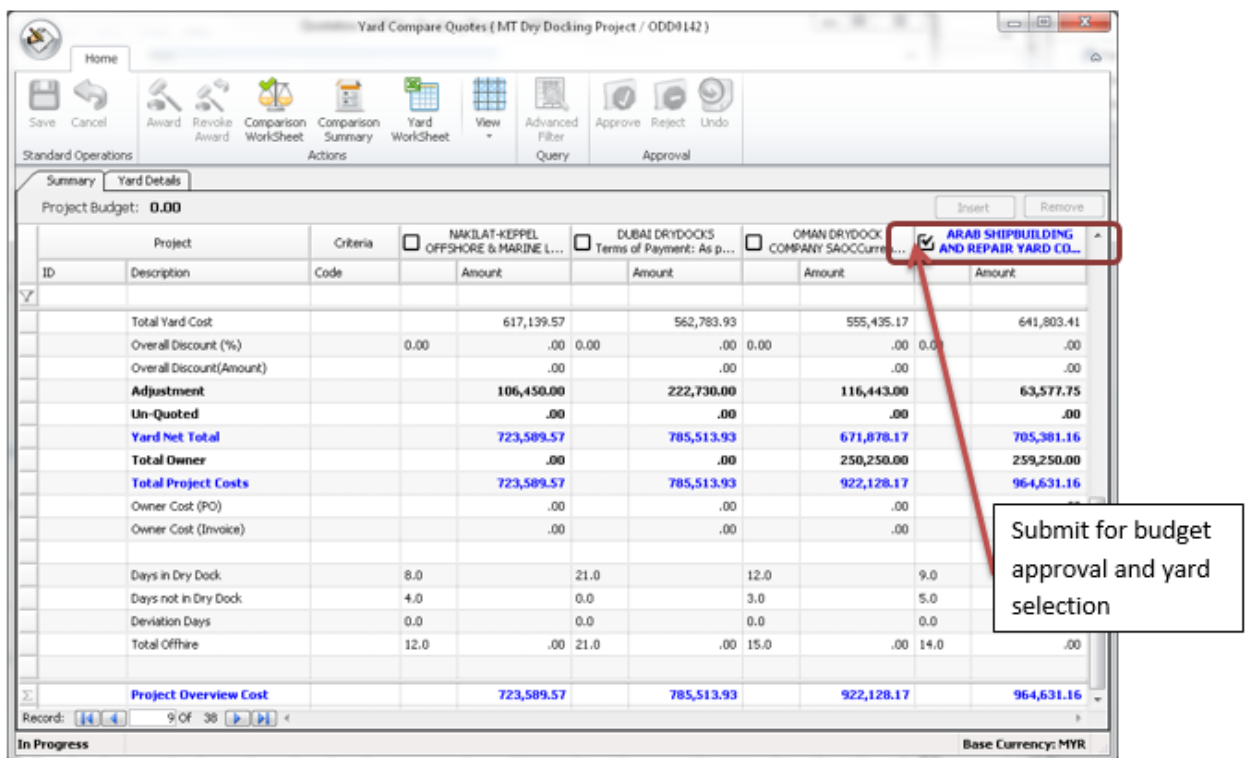


Figure 9 - Yard selection

The budget approval will be based on the Project Manager selection and the process will go as per Approval set up.

Project budget approval can only start when all quotes receive from all yards.

Or all tasks should be quoted prior sending for budget approval.

Once budget approved, quotation has to freeze, or any change of quotation that result in change of highest bid that used as project budget, project budget has to re-approve. Once budget is approved and Yard has been awarded the quotation should be locked.

Project Budget required to constraints by budget allocated.

CR5560 – Final Project Budget Approval – Budget Changes

Description: The Project Initial Budget Approval should be set-up as the same way BASSnet Projects have for Yard Selection.

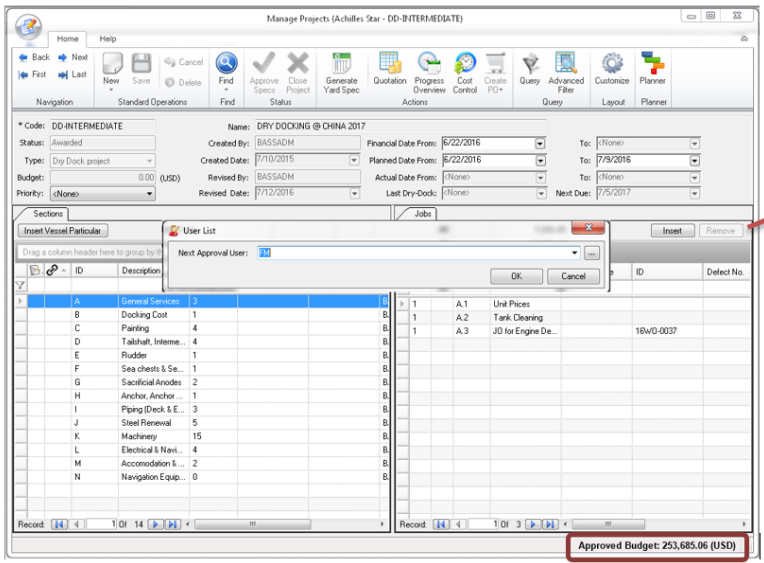
As per the Monetary level and in comparison with total Initial Budget calculated the Approval need to go until the level required. Each and every level may have one or more Users. Any Rejection need to bring the request to initial phase and required a rejection comment. The requester can undo the request.

Project Budget Re-Approval will be trigger automatically for Awarded project if deviation fields are defined on Approval Setup.

Is normal that during project execution to add or remove jobs/task. These events will remove or add amount to your budget. This will cause budget deviations and may require to reapprove the Project Budget.

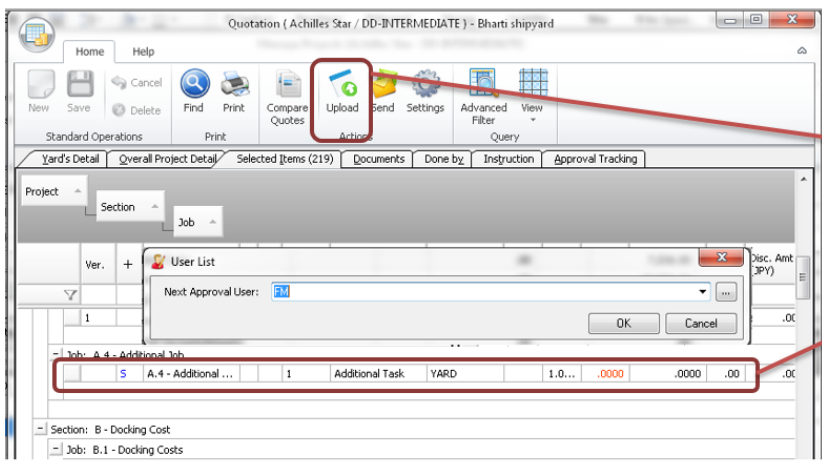
After the initial Budget approval the Project Manager can add or cancel JOBS/TASK, which will lead to changes on cost and should sent for approval. Budget deviation is not just based on Amount, but on % Percentage but also Amount . If the Project Manager Cancel 2 Jobs leading to an deviation less than -1% from initial Budget, the budget does not need to be approved since is less than -1%. If the Project Manager cancel some Jobs leading to a -1 or more % deviation, even being negative the budget need to be prompt to be approved by Fleet Manager. If project Manager ADD some JOBS/TASKS causing increase of 1%, but same time cancel some JOBS/TASKS in less than -0.5% or less than \$250K from the initial Budget. The budget does not need to be sent for approval. If the Project Manager add some JOBS/TASKS the deviation shows 1% or more the \$250K, the system should prompt to the project Manager information to submit the budget for approval minimum two levels (Fleet Manager and MD). If deviation is more the 1% or between \$250K up to \$1 million then need to be approve up to 4 levels. Above \$1 million need 5 levels.

In progress project will have a DB configure setting to control skip of re-approval process. By default, the configure setting is disable. If the configure setting is enabled, re-approval process will skip even change of project budget exceeded the define deviation.



Remove any job on Manage Project. If change of project budget more than defined deviation from Approved Budget, Project Budget re-approval trigger by sending request to next approval user.

Figure 10 - Next Level of Approval



A supplementary /extra job/task is added to a project. Then, sup get quoted price by uploading/enter manually to system. Once the quoted price is saved, system will compare change of project budget. If the change exceed deviation, Project Budget re-approval trigger by sending request to next approval user.

Figure 11 - Re-Approval

Re-approval only applicable to awarded & in progress project. If configure setting to control skip of re-approval process, re-approval of in progress project will skip even budget exceeds deviation.

Adding PO to a project:

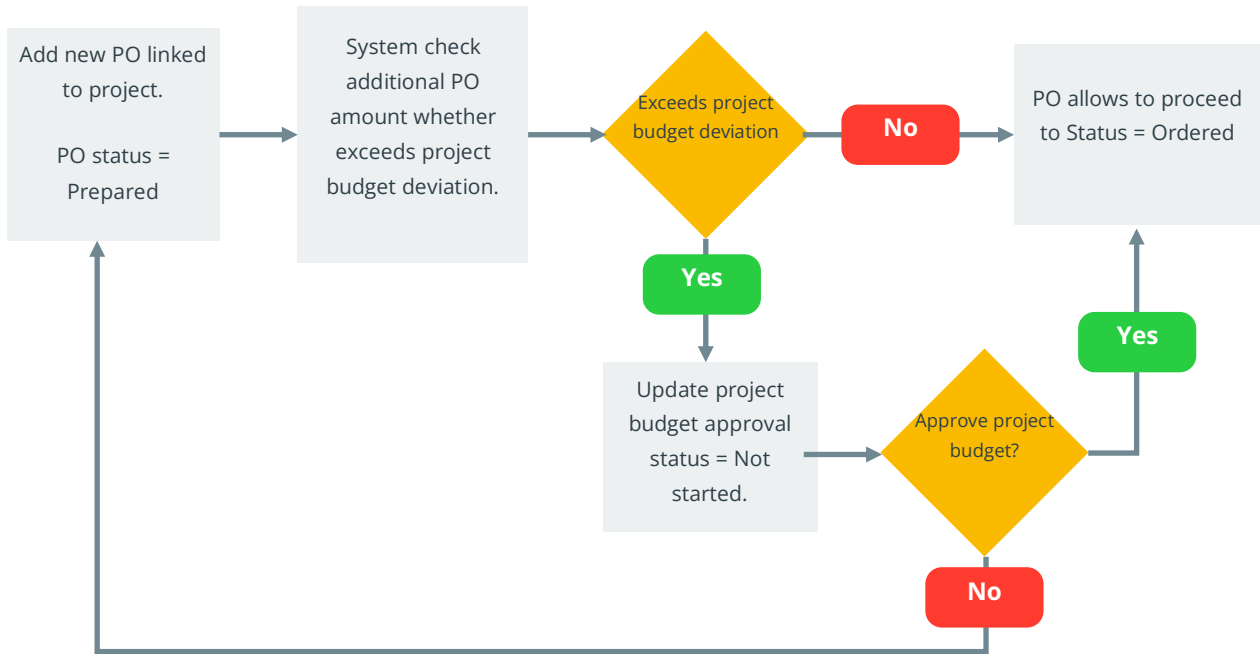


Figure 12 - Adding a PO to a project flow

Edit PO details:

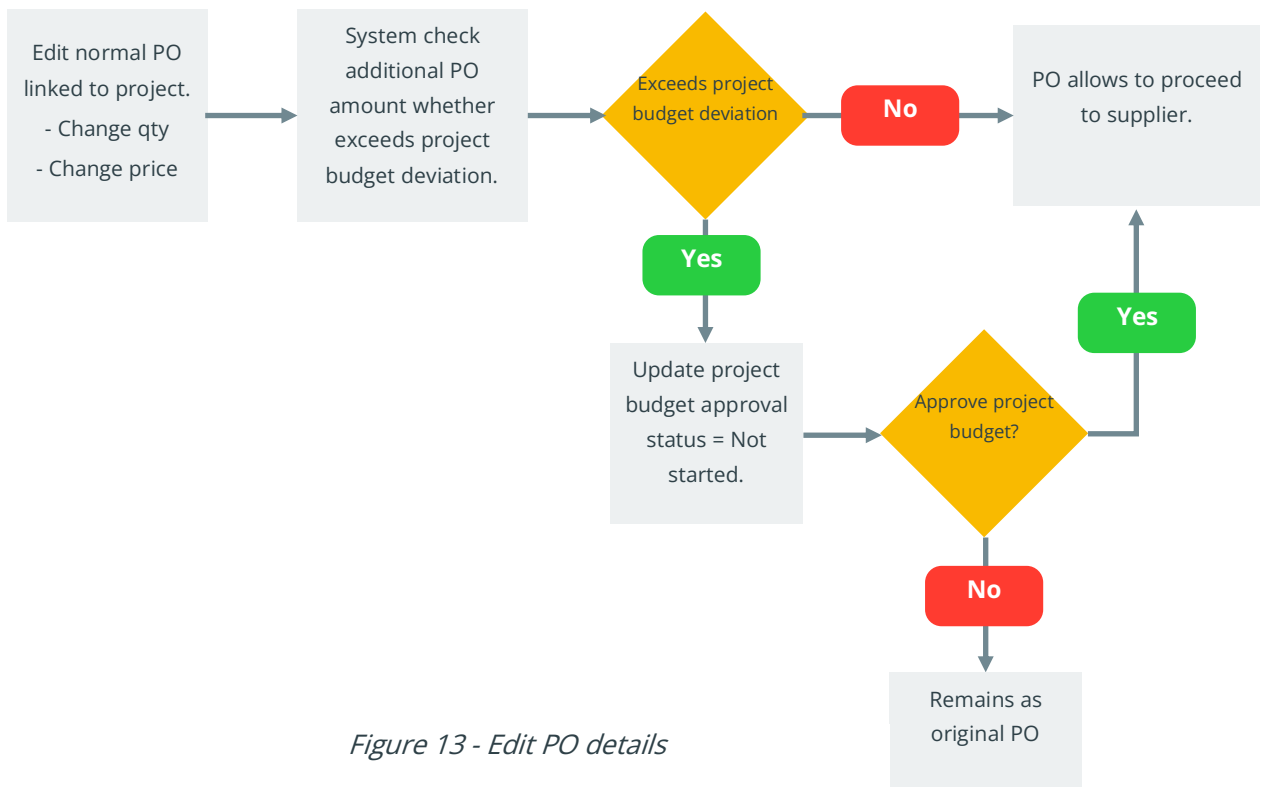


Figure 13 - Edit PO details

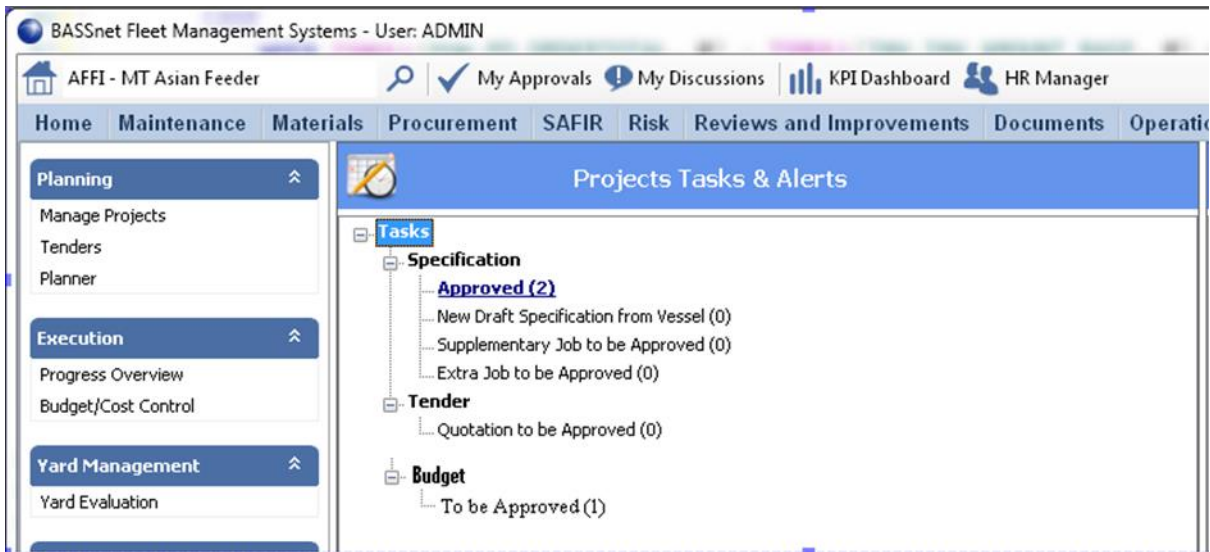


Figure 14 - Budget to be Approved

From Tasks Budget>To be Approved, user will direct to Yard Compare Quotes screen. Here, user may send request to Next Approval User.

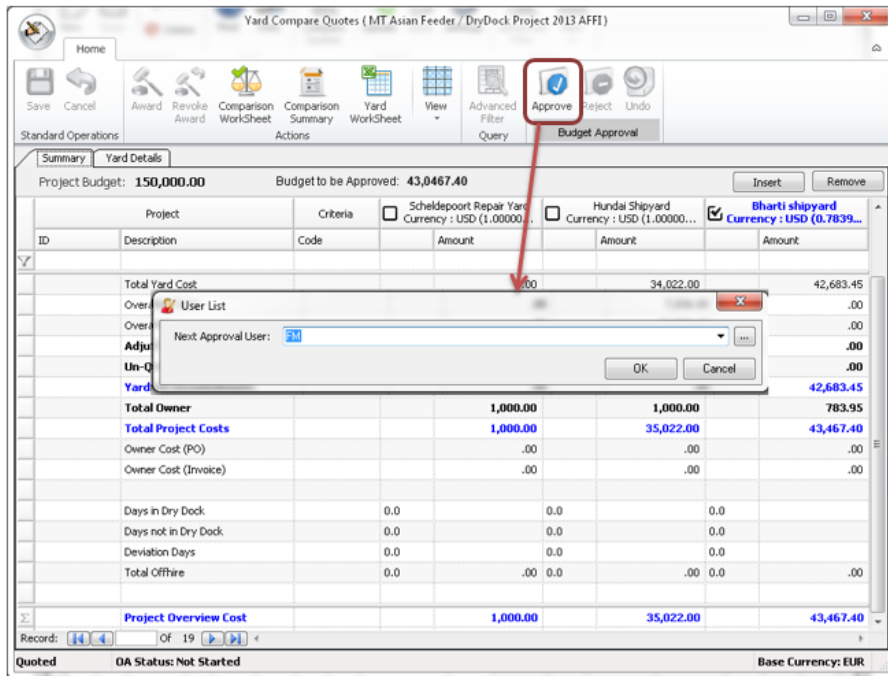


Figure 15 - Next Approval

CR5562 – Add/Remove Sections

Description: Add Standard Spec in Stolt is controlled by access Rights. In order to have full control on standardization, Sections should be blocked for changes.

The Standard Specification (Sections/Jobs/Tasks) should be protected by access Rights and changes should be logged (who and when). Just Persons with proper access rights can apply the changes ADD/EDIT/DELETED, all other users within BASSnet Projects can read. Once Standard Spec is added to Project, sections should also be blocked for ADD/EDIT. (Jobs can be READ/ADD/EDIT/DELETED. New feature need to be developed for REMOVE/Visible in case the superintendent do not need that section for this Project. Should have an option to view all hidden (Removed) sections.

Introduce a new access right (Section – Create from Standard Specification) to control editing section copy from standard spec.

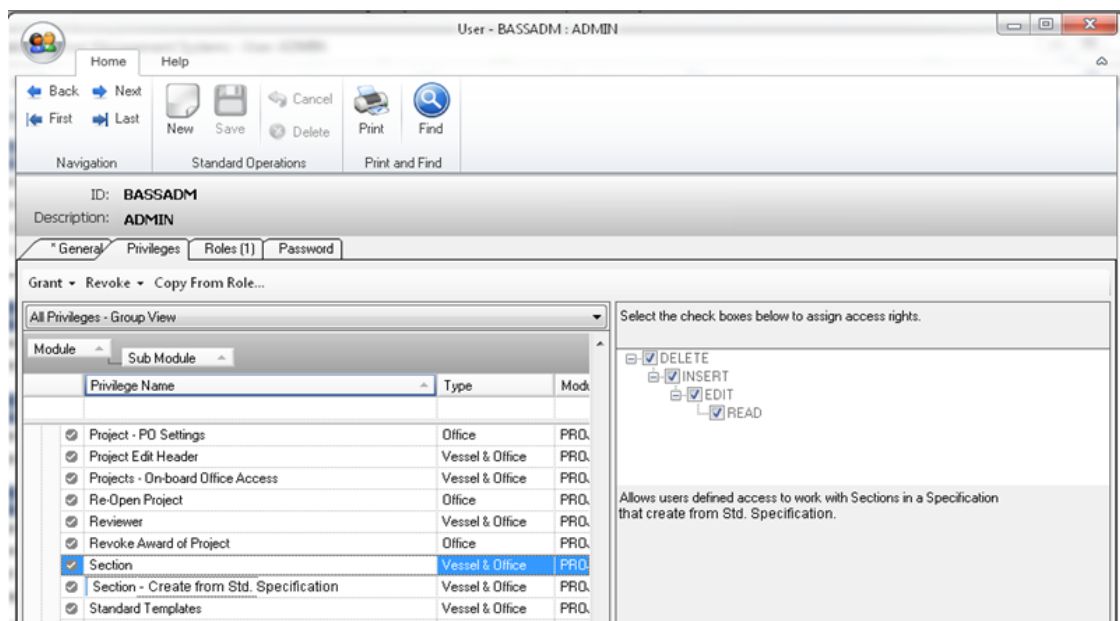


Figure 16 - Privileges

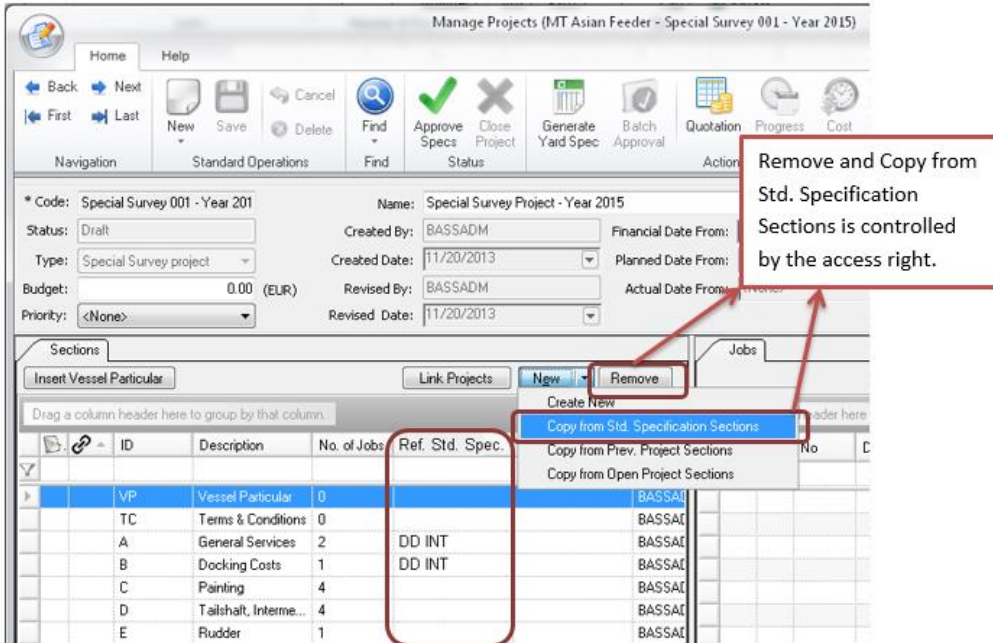


Figure 17 - Access rights controlled

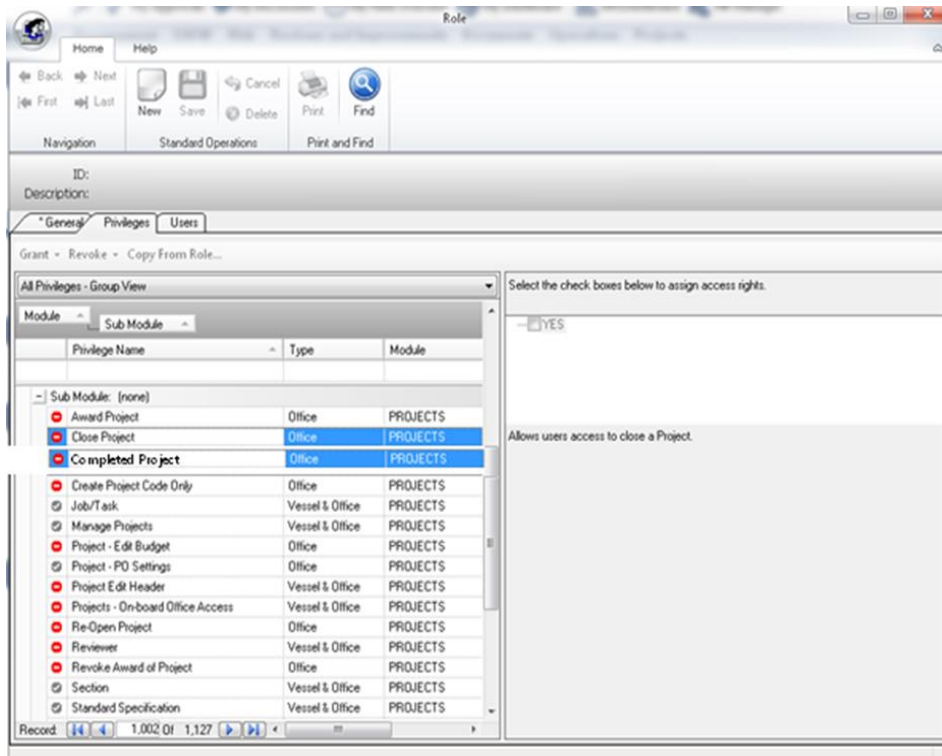


Figure 18 - New Privilege

CR4395 – Mandatory to link a PO to a Section Configuration.

Description: In order to better get a track on the costs control, once we assign a PO to a project ODD, to be mandatory to link this PO to a Section. The request is to not allow Project closing until all PO are allocated minimum level to Project Section. In case closing Project an alert need to show warning that still PO not assign to sections.

A DB configures setting (PARAMETER_CODE = MAND_LINK_PO_SEC) will introduce to set linking PO to a section is mandatory. If the setting is enabled, upon closing a project system will check whether all PO connection to section. If there is any PO not connecting to section, close the project is not allowed. A message will prompt to notify user.

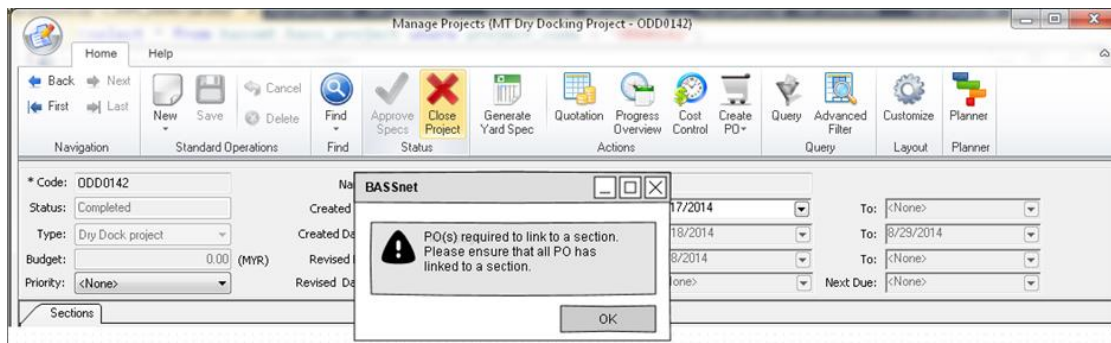


Figure 19 - Closing Project ,PO alert

How to ensure all POs are linked to a section:

1. Go to Budget/Cost Control screen.
2. Under Requisition/PO, look into column Section ID and filter {Empty}.
3. All POs have link to a section will list down.

How to link POs to a section in batch:

4. Select desire POs then right click.
5. Select Connect Section.
6. A lookup screen of sections will prompt.

Validation only performs when closing a project on Manage Projects.

Any project type not only dry-docking project.

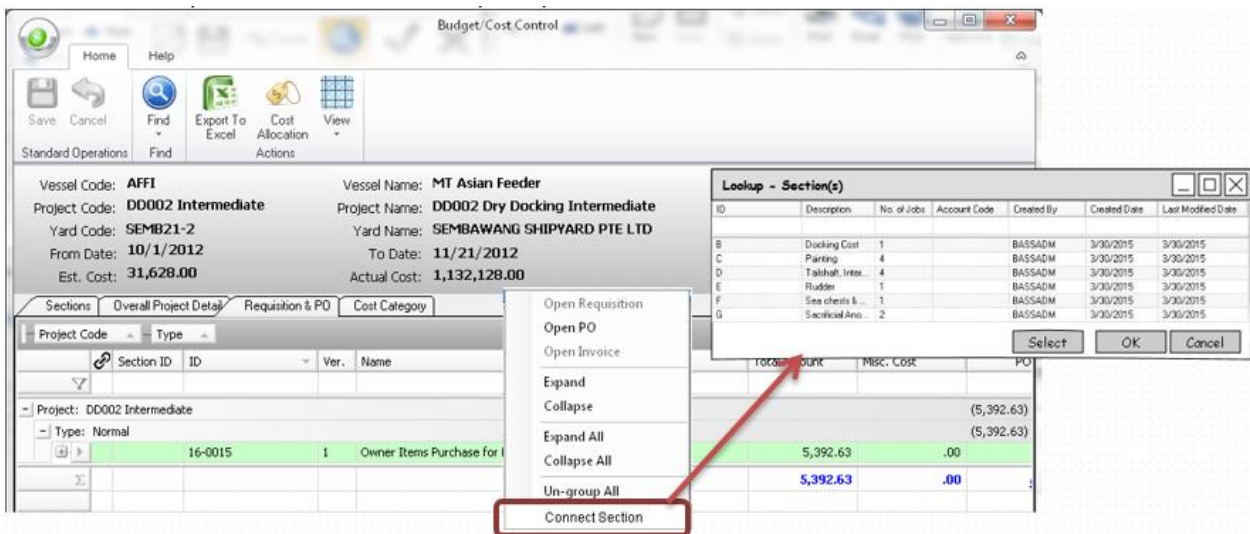


Figure 20 - Connect Section to PO

CR5567 – Built Project Budget – Jobs screen New Tab/Grid/Currency

Description: Under The Project screen the user is able to see sections with the number of Jobs associated, and once select the section is able to list all Jobs. If user double click on the job is get new screen with several tabs. Jobs Description/Tasks/Resource/Document/Approval Tracking/Done By. We now suggest to add a new tab for: Requisitions & PO. Add the new TAB for Requisitions & PO so user can assign PO's linked from listed Project/Section to the JOB. So, PO connected to section is possible to connect until job level. Linkage of PO and Job can be stored in BP.BASS_POHEAD.JOB_ITEM_ID . Change in the Tasks grid to view the Awarded YARD bid with all adjustments/Un-quoted amounts. Add the option on screen head the option the user to switch from Supplier Currency or Ship Base currency.

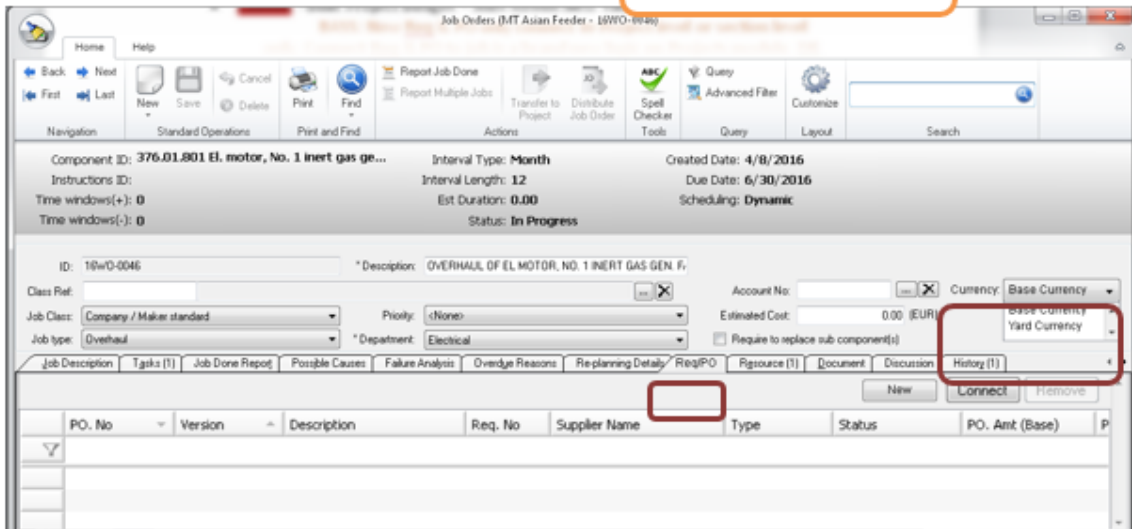
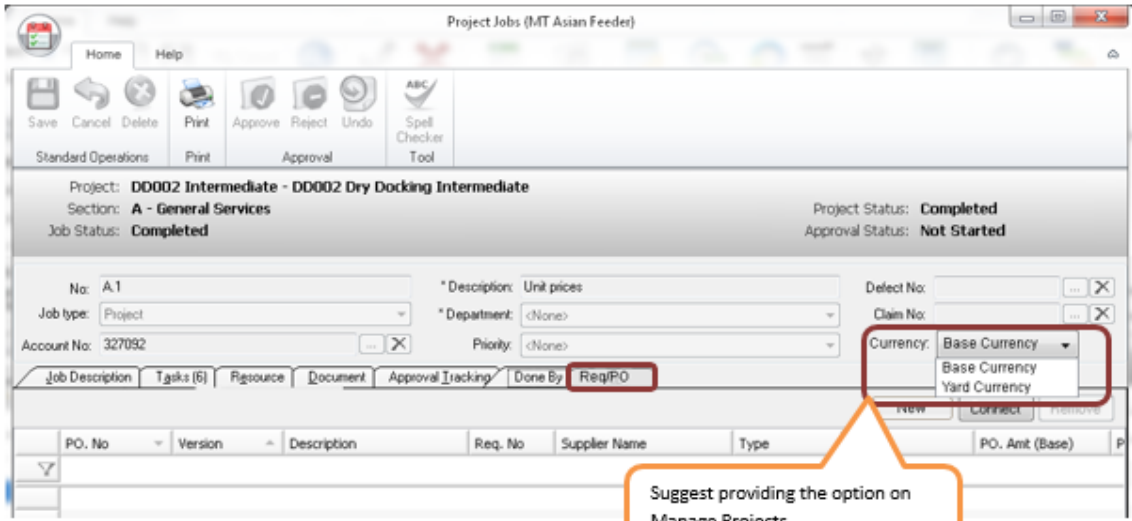


Figure 21 - Currency Drop down

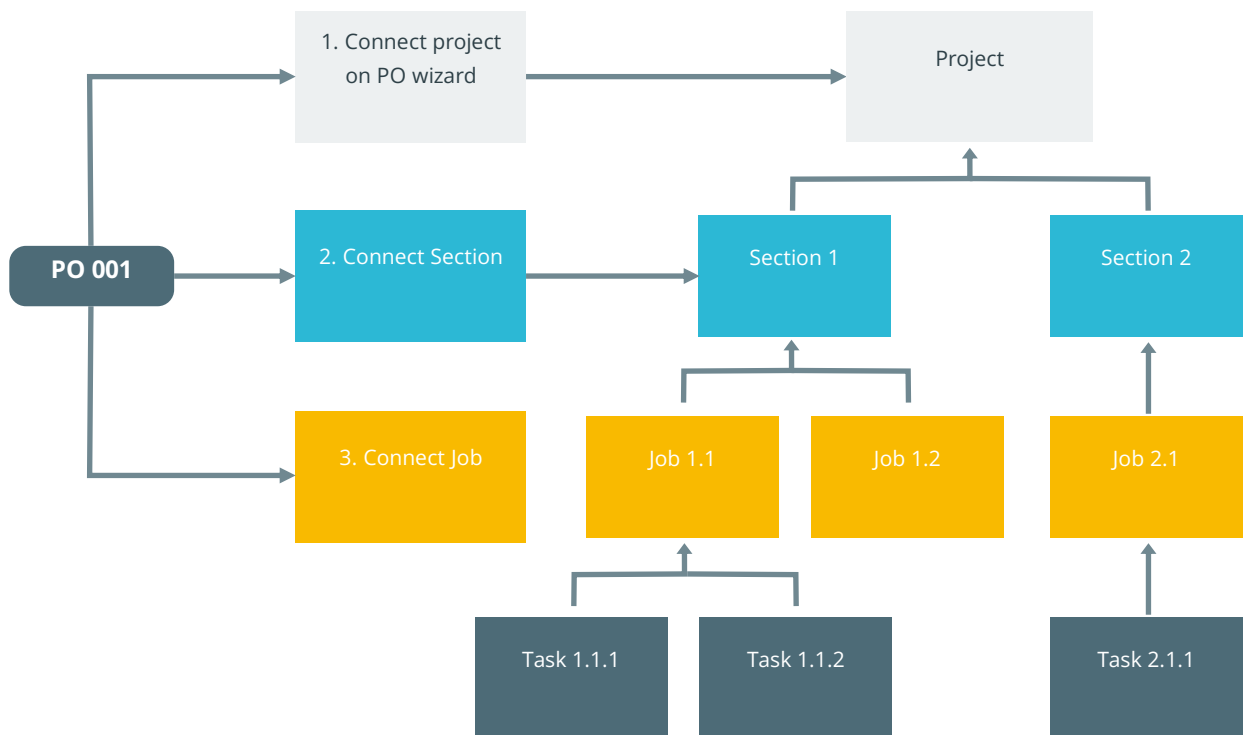


Figure 22 - Connect PO sequence

CR5568 – Built Project Budget – Assumptions

Description: Under Project screen User is able to see the Project sections with the sections with number of jobs in and once selecting a section can list on the right all linked JOBS. Once double click on the JOBS a new screen will be open listing several TABS, selecting the TAB TASKS job tasks will be listed. Although the Lines can have different “Job Category” (YARD/OWN) and get a Cost Assumption those does not give any system functionality. If Component Job link this assumption, GL Account need to use the Project account code.

Extend the YARD grid to link later once yard is Award to bring all details from yard bid and later the Project Budget PO. Until the yard is not selected/Award the assumptions should be used for Project Budget build overview. User should be able to put any other tasks assign to all other owner cost e.g. Agent Cost, Class Fees; Hotel Fees; Other subcontracted tasks and use the Assumption field to add a Cost (Yard Currency or Base Currency). Later once the service is requested and quoted User can linked the Project/section/Job PO.

If a project is created from previous project, actual amount of the previous project task should copy over as assumption. As for project creating from open project, assumption shall capture from bid amount or assumption amount.

Add column Budget to section and job grid.

If project status is draft, spec approved, tendered then assumption is taken as Budget. If project status is quoted, highest total bid from yards will be taken as budget.

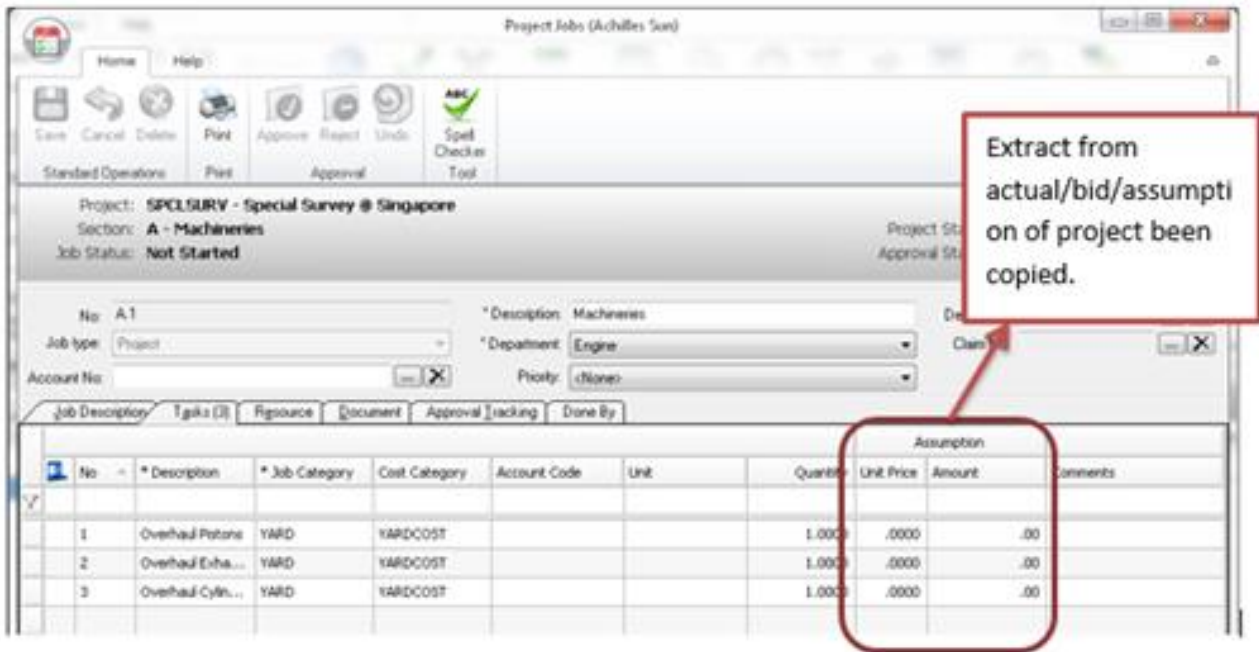


Figure 23 - Assumptions

If project status is Awarded and onwards, approved bid amount from the selected yard will be taken as budget.

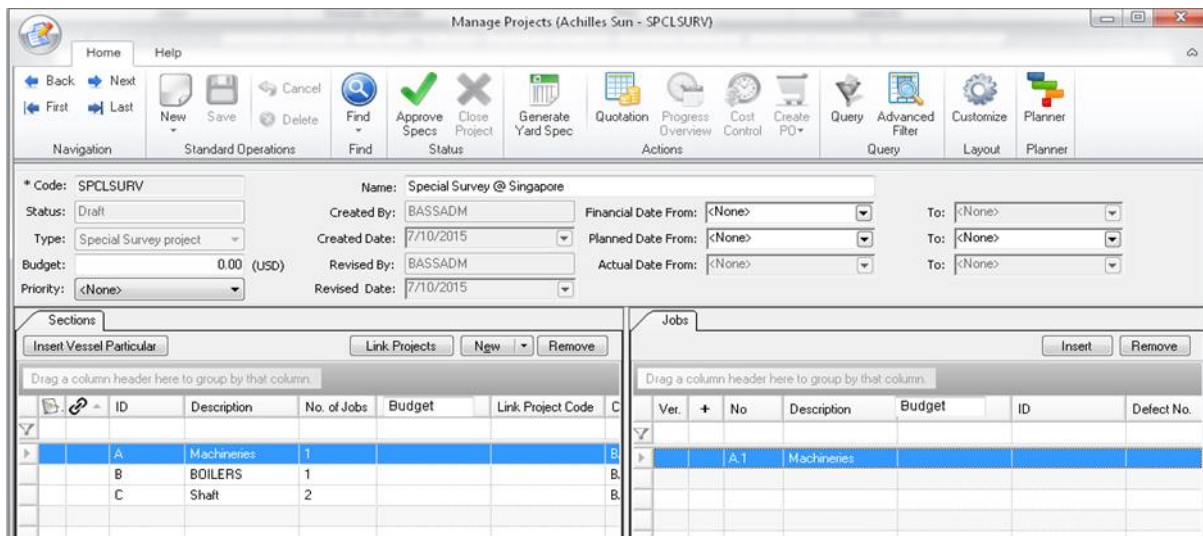


Figure 24 - Budget Column

CR5570 – Project Budget - T-Fitters and T-Coaters

Description: During Dry-Docking is common to use Fly squad from existing crew pool to assist during the event. Those personnel have a contract number and will be pay by HR Manager with Special assignment under same Project Code.

Selecting a section, on the right screen Jobs will be listed for that specific section, if double clicking on the job new window open with several TABS. The request is to in Resources TAB have the functionality: Add one or more line per resource required description (possible Register: T-Coater; T-Fitter) and field to enter the Assumption amount in Base Currency. Later as soon the Crew Manager Assign Special assignment with Project Code on it, should be able to browse and link IPN/Name to the line with Percentage. The assumption will become than estimate as per his CBA.

Formula: Estimate Amt. = Total Earn * percentage

Cost Element	Payment Mode	Formula	Currency	Amount	RDE	Crew Amount	Payment From/To	Incl. Pay Fr.	Incl. Pay To	Every Mth	Payroll Group
BASICPAY	EARNING		U.S. Dollar	2,860.00	1.0000000000	2,860.00	Wage From/Wage To	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PRORATA
VACDAY	FACTOR			12.00			Wage From/Wage To	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
LIWAGE	EARNING		U.S. Dollar	1,144.00	1.0000000000	1,144.00	Wage From/Wage To	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PRORATA
STANDEY	EARNING	ROUND(BASICPAY*1.2)	U.S. Dollar	2,860.00	1.0000000000	2,860.00	Wage From/Wage To	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PRORATA

Figure 25 - Resource Allocation

Enhancements:

1. Enhance Project Jobs > Resource tab > User grid to allow insert crew.
 - a. A dropdown on Insert button to allow user to insert crew from a crew lookup screen.
 - b. Once a crew is selected and added to user grid, crew IPN, Name and CBA will be extracted and display.
 - c. Percentage column will be entering by user to indicate % of Total Earns to be allocated to the project job. Once Percentage column enter, system will auto calculate Estimate Amt. according below formula.

$$\text{Estimate Amount} = \text{Total Earn} \times \text{Percentage}$$

(4.1)

- d. Estimate Amt. will be stored to database. Any changes on Total Earns happen on HRM will not reflect the Estimate Amt. store for project.
 - e. A right click option to update Estimate Amt. on Project from HRM will be introduced. Estimate Amt. will be updated if there is change from HRM. Change of Estimate Amt. will trigger project budget re-approval following setup of project budget approval's deviation.
 - f. Actual Amt. will be captured to project when HRM account period is closed.
2. Project will be restricted to close financially if any connected crew's account period has not closed.

CR3225 – Connect / remove resources control by access right

Description: Connect / remove resources control by access right, Once the Status of the project is “in progress”, the User is no longer allowed to connect/remove/change the resources, as follow: User should be able to do so, in order to assign the jobs for example the supplementary Fitters, etc. Introduce a new access right under Projects module to control connect/remove resources.

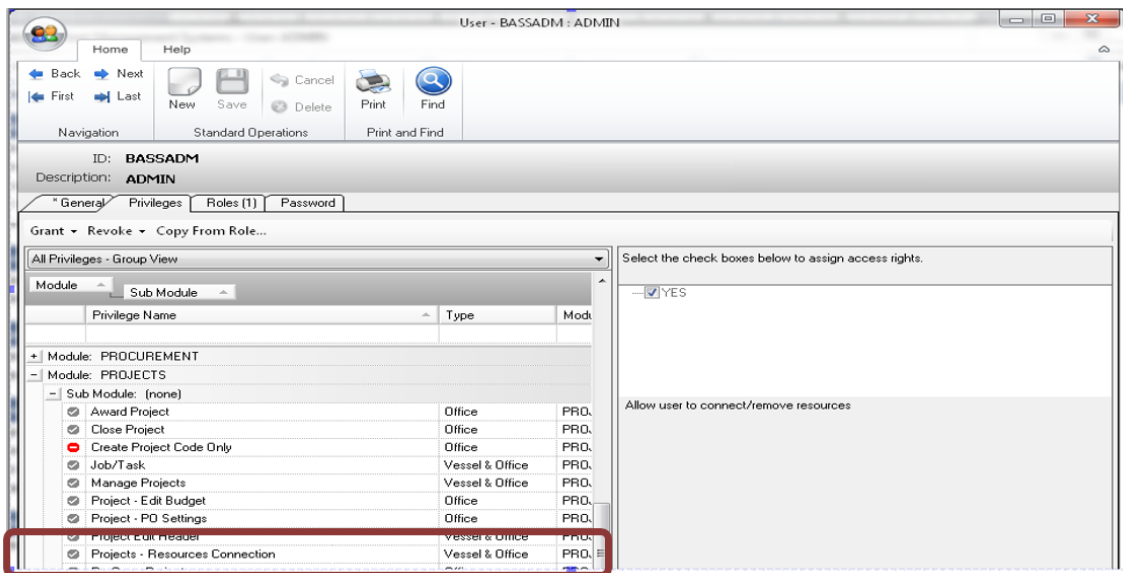


Figure 26 - Project Resource connection privilege

Only user with permission allows connecting or removing resources.

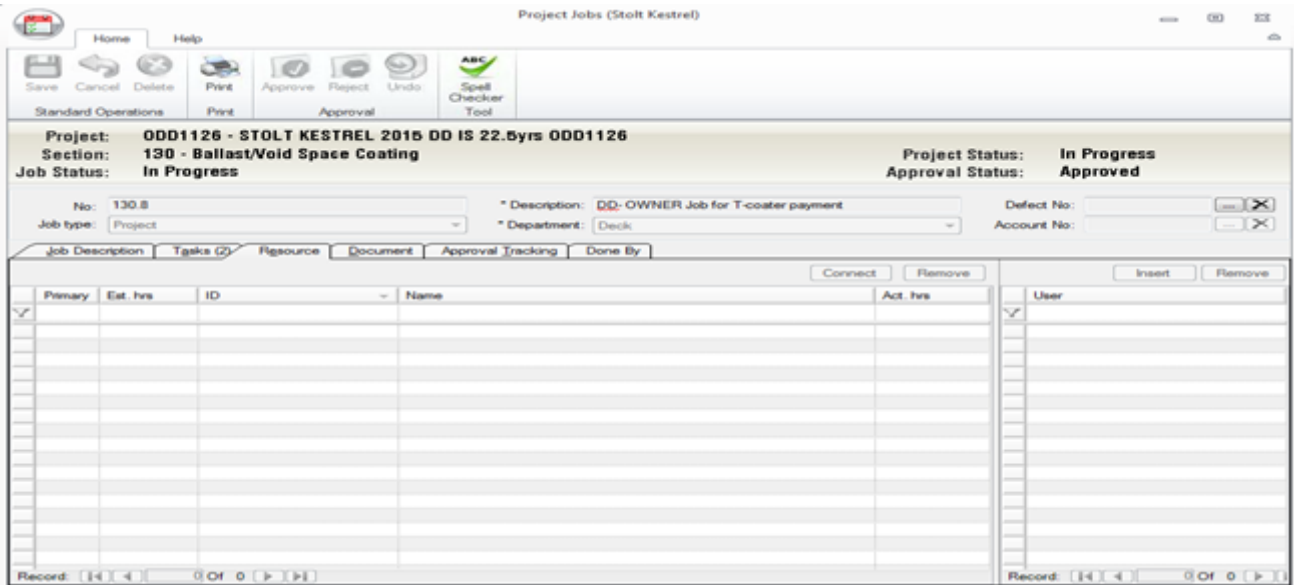


Figure 27- Resource connect to project/job level

CR5571 – Load and Archive Settings folder Per user

Description: BASSnet projects have since setting to all user/fleets to RFQ File Folder; Quote File Folder; and Archive File Folder. This is causing issues and data lost across sites/users/fleets. We did experience some files getting lost since multi users are using loading archiving files at same time. The Settings for quotations should be per user/project. The administrator will just set the file server and root folder and check the functionality to auto create /User/Project code. This should be blocked by access rights. Please be aware that file server is becoming obsolete, Multi Company's as Stolt is moving to use Microsoft Cloud OneDrive. Currently the settings of RFQ, Quote and Archive path save in an xml file store in config folder. The CR will move the settings into DB and store per user basis.

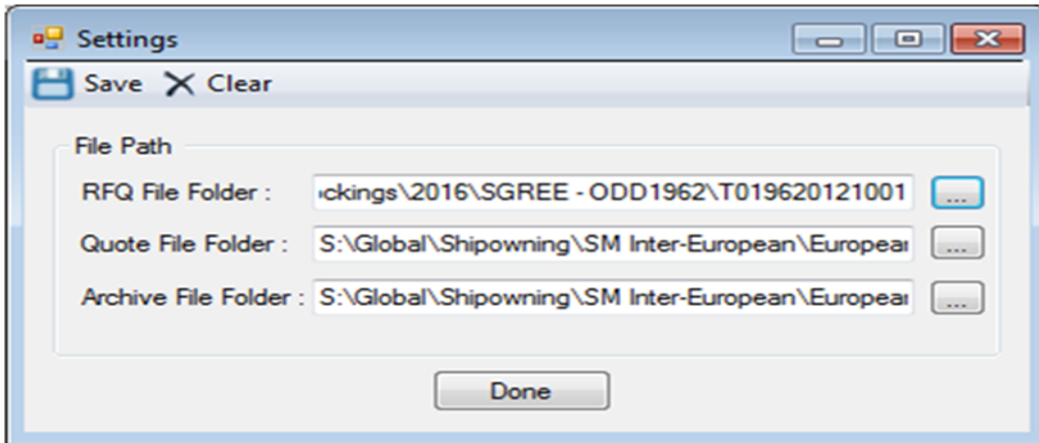


Figure 28 - User Path Settings

B. Project Specification Creation

CR5573 – New Project function- New UI lay out

Description: In such big event as Dry-docking a Ship opening a project is screen is not more than Add Project Code Description and Project type. Leading to project creator to click on new and then browse to find project to populate remain information. It should be more than a small screen looking for Project Code; Project Type and Project Description. It should also in corporate: Initial 5Y plan budget; Financial Date from/to; planned date from/to; Project Manager (auto populate from Ship Particulars); Fleet Manager (auto populate from Ship Particulars); Status; and some new fields as Project sub-type and Budget Off hire days. This will avoid to open the project to browse and edit the same to enter the data. Include more fields on Project wizard such as financial period, plan date range, fleet manager, project manager and budget.

Figure 29 - New Project Wizard Layout

CR5574 – Jobs GL Account code Required

Description: GL Account code is already in the Section and Job level. The GL Account should be required in JOB, in order to become easy to set by default GL Account should be populated with Section GL Account. If then required the USER can change the default GL Account assign to any other. If section is defined with an account code, the account code will be default to its belonging job upon job creation.

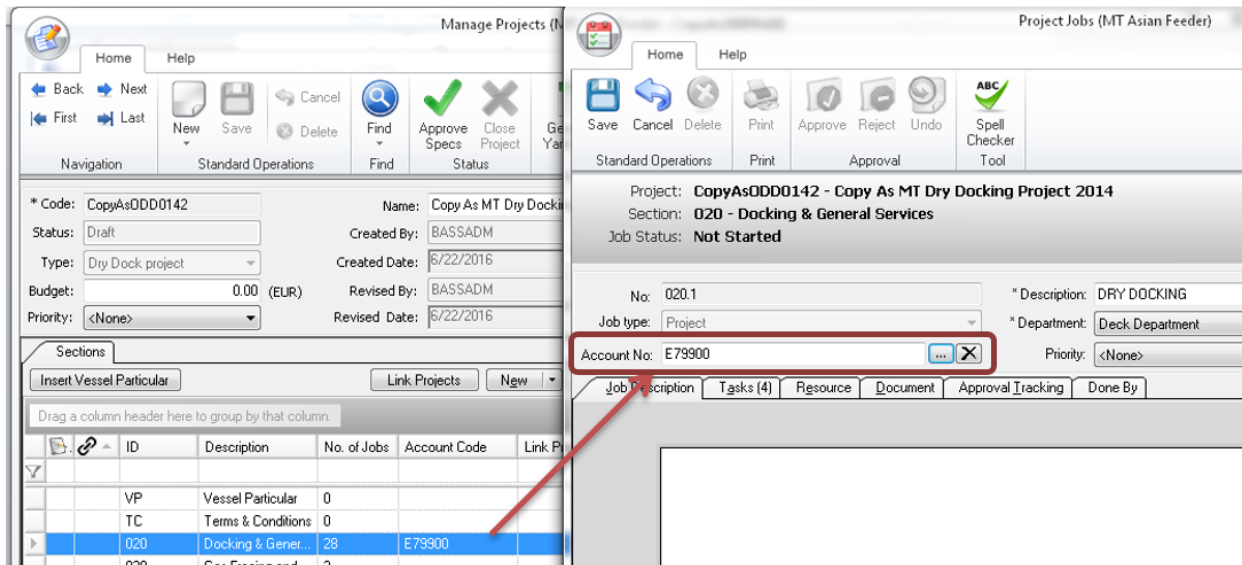


Figure 30 - New Field Account code

CR4461 – Change the quantity on the task level

Description: User should be allowed to change the quantity on the task level once the yard has been awarded, or at least have an extra column for the adjusted quantities. During the quotation status, normally a quote is request for the bottom plugs, the yard most of the times they will give you the unit price for this, however most of the times the ship uses from 18 to 20 bottom plugs, if on the quotation we add 20, we will have the amount of the 20 bottom plugs, once you award the yard, the 20 bottom plugs will be there, but imagine now that we use only 18 how, user should be able to change this amount. Dry-Dock days are quoted by Unit day/Unit Price, some Yards bid 10 days others 11. This should be relected as total price in the Yard comparison/ Project code. During Tender and for transparency propose the Project Manager Required price per Unit. And as he review the bid Project Manager should be able to update the quantity request to calculate what will be the total bid cost. Suggest implementing on Progress Overview. Here, allows user to enter actual quantity. The actual quantities will not overwritten Quoted Qty. Cost changes due to different of Quoted Qty. and Actual Qty. will store in Deviation. Final Amt. will shows approved budget and deviation. Final Amt. is editable.

New grid layout under Details tab:

Section		Job - Status - (Period)										
Ver.	+	Job Category	No.	Task	Account Code	Quoted Qty.	Budget	Committed	Actual Qty.	Deviation	Final Amt.	
- Section: 020 - Docking & General Services												
- Job: 020.1 - DRY DOCKING - In Progress - (none) - (none)												
1		YARD	1	Dock preparatio...		1.0000	3,600.00	.00	3.0000	7,200.00	10,800.00	
1		YARD	2	First following day		1.0000	1,500.00	.00	1.0000	.00	1,500.00	
1		YARD	3	Each following day		1.0000	.00	.00	1.0000	.00	.00	
1		YARD	4	Total price this dr...		1.0000	10,500.00	.00	1.0000	.00	10,500.00	

Figure 31 - Job details qty.tab

Formulas:

$$Deviation = (Actual\ qty - Quoted\ qty) \times Bid\ Unit\ price - Discount \quad (4.2)$$

$$Final\ Amt = Budget + Deviation \quad (4.3)$$

CR5576 – New Alert - HR Resource is allocated to the Project

Description: T-Fitters and T-Coaters are seafarer's under Stolt Payroll. Their wages (Total Cost) need to be allocated to the project.. Project Manager request to his crew manager T-fitters and T-

coaters to join the project to assist the Project for 6 months. This allocation (special Assignment) need to be alerted to the Superintendent (Project Manager)

Budget/Cost Control

Home Help

Save Cancel Find Export To Excel Cost Allocation View

Standard Operations Find Actions

Vessel Code: **MTDD** Vessel Name: **MT Dry Docking Project** Quoted Curr. Code: **USD**
 Project Code: **ODD0142** Project Name: **MT Dry Docking Project 2014** Quoted Curr. Rate: **1.000000**
 Yard Code: **1006045-9444** Yard Name: **ARAB SHIPBUILDING AND REPAIR YARD** Used Curr. Rate: **1.000000**
 From Date: **6/18/2014** To Date: **8/29/2014** Project Budget: **0.00**
 Est. Cost: **923,553.54** Actual Cost: **264,020.12** Remaining Budget: **-264,020.12**

Sections Overall Project Detail Requisition & PO Cost Category **Resources**

Section		Yard				Owner					
Section ID	Section Name	Account No	Total Jobs	Budget	Committed	Actual (s)	Deviation	Budget	Committed	Actual (s)	Deviation
	Overall Discount (%)			.00		.00		.00		.00	
	Overall Discount			.00		.00		.00		.00	
	Net Total			676,303.54		253.5...		247,250...		10,500.00	
	Days in Dry Dock (9.0/0.0)										
	Days not in Dry Dock (5.0...										
	Deviation Days (0.0)										
	Total Offhire (0.0 * 0.00)										
	Supplementary Task Costs			13,336.50		2,487.75		259,250.00		10,500.00	
	Extra Task Costs			.00		.00		.00		.00	
	Cancelled Task Costs			29,617.62		.00		12,000.00		.00	
	Deferred Task Costs			.00		.00		.00		.00	
	Materials Cost								.00	.00	
	Job Order Cost								.00	.00	
	Crew Wages										

Record: 1 Of 50 In Progress Base Curr. Code: MYR

Figure 32 - Resource Budget cost Control

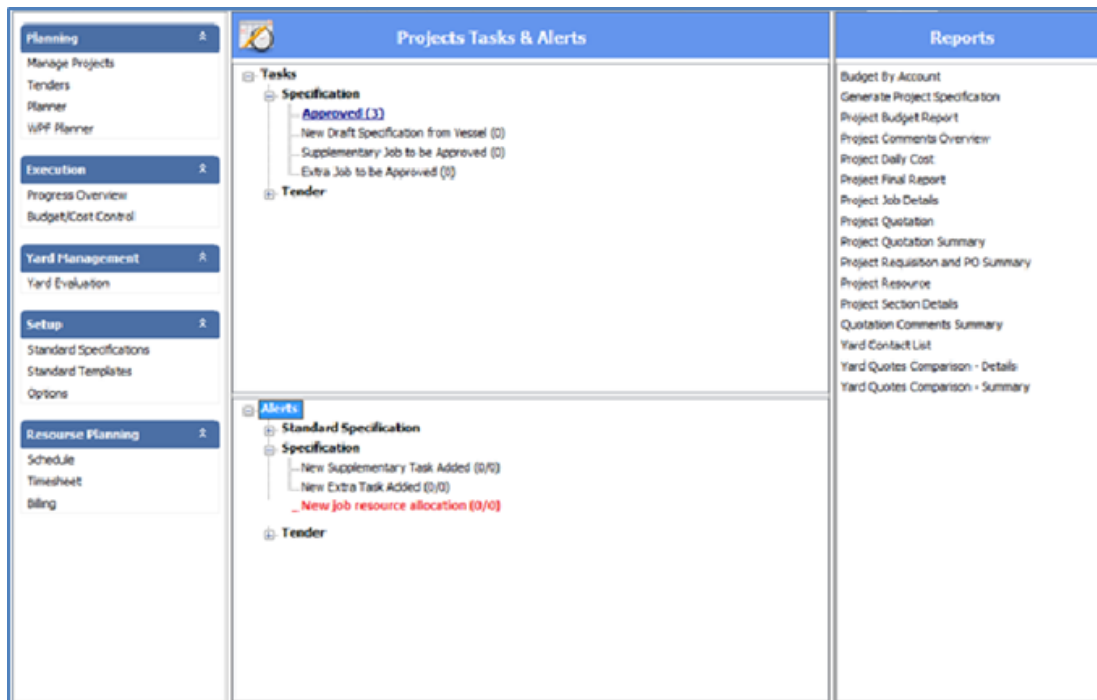


Figure 33- Task alerts

CR5577 – Yard Discount on Job Level

Description: The Yard discount can be different from Overhaul discount, or one or more Jobs can have different discount (even excluded). Also some times during invoice negotiations can lead to some other discount due to delivers. In the Yard bid the supplier quote an overhaul discount of 10% excluding Main Engine overhaul jobs. No overhaul discount is given from the YARD but Piping and Dry-dock service have a discount of 20%. During the Invoice negotiations, some Jobs were done but not completed. Superintendent request a discount of 10% agreed with Yard. To have yard discount on job level. A new table is required to store job information of tender (BASSMT.BASS_TENDERJOB). The implementation propose on Quotation > Selected Items.

1. User right click on group of job, a context menu is prompt.
2. Select “Set Job Discount”, a window to enter job discount is prompt.

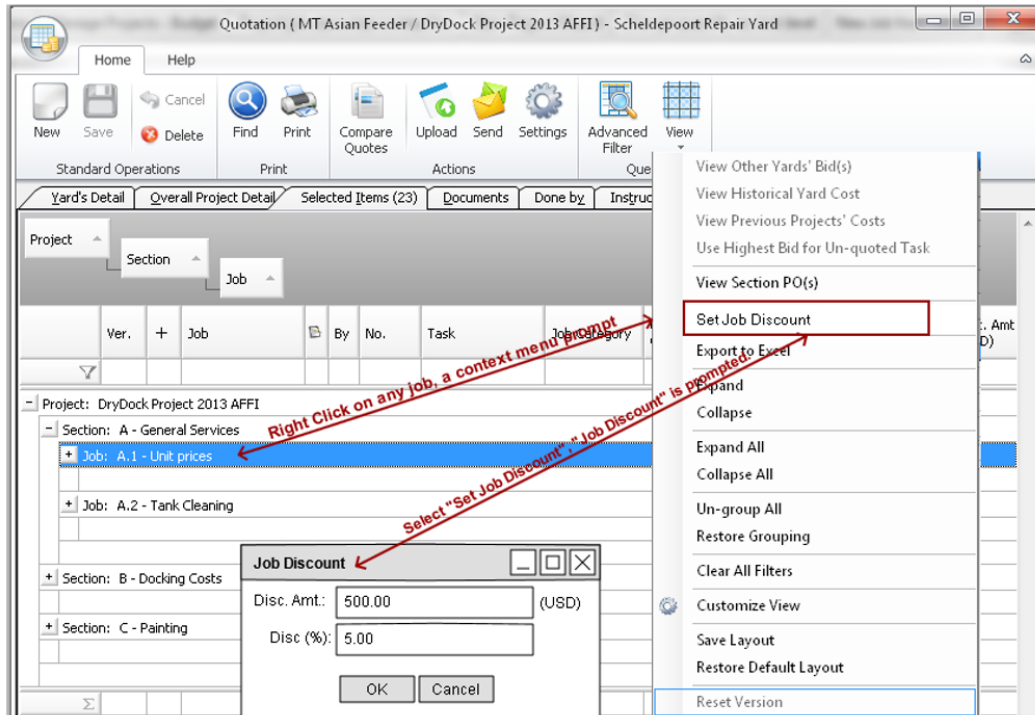


Figure 34 - Set Job discount option

3. Once user enter valid value of discount then click OK button, the discount will update on the job's group header as below:

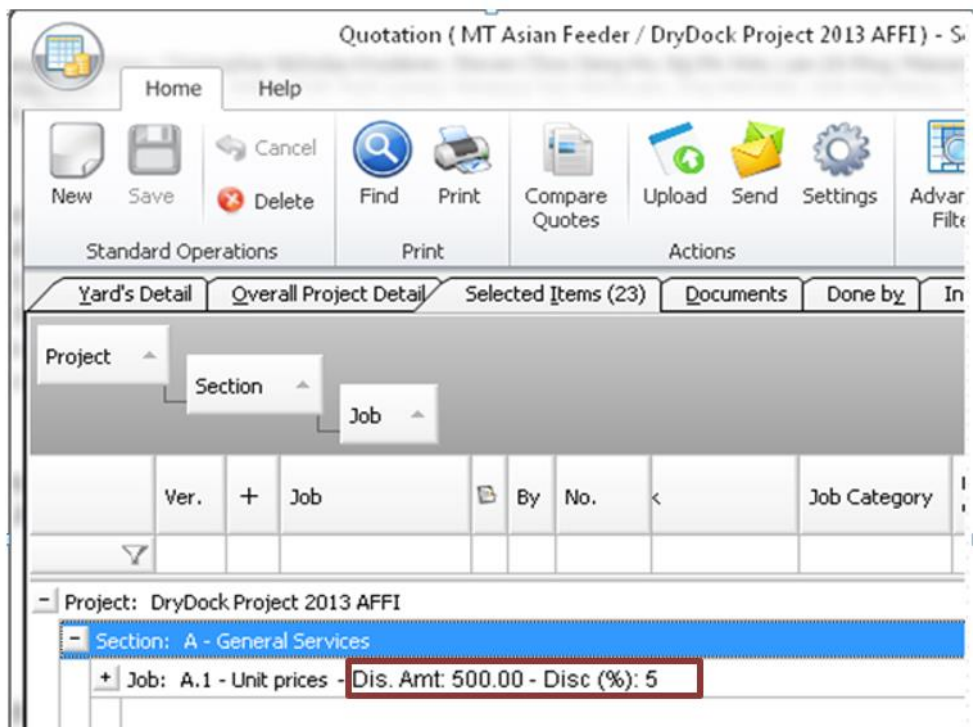


Figure 35 - Job discount in

- Option to exclude discount on task level. If Exclude Disc. Is checked for a task. The task's Amount will not apply discount that defined on its parental level.

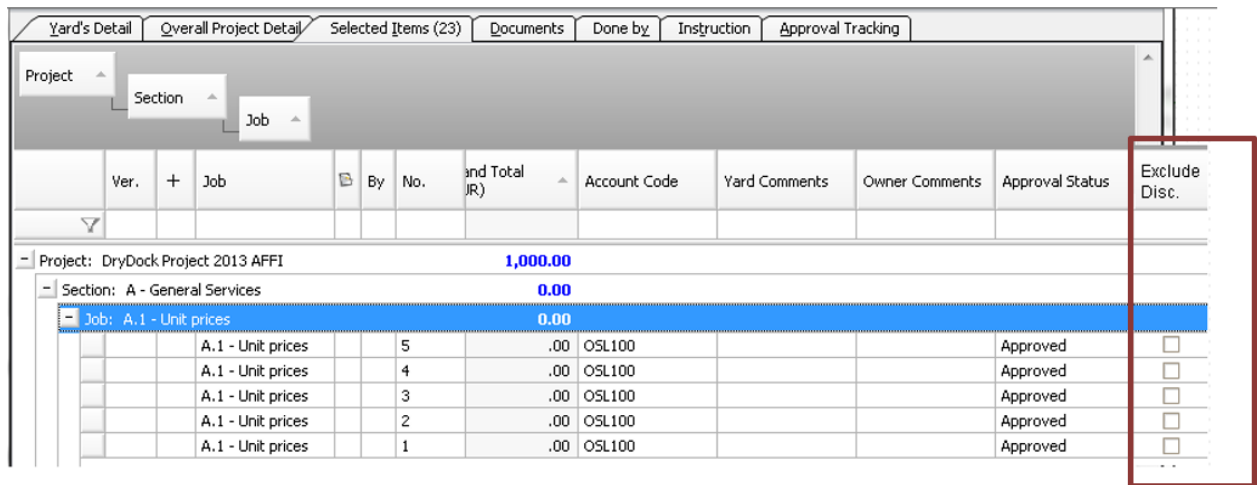


Figure 36 - Exclude discount task level

Discount calculation e.g.:

Overall Discount	5%
Job Discount	10%

Task:		Total Price	Disc	Amount	Exclude Disc.
	A.1	100	10%	90	N
	A.2	30	5%	28.5	Y
	A.3	150	2%	147	N
			Total:	265.5	
Job: A	Amount for Disc	Disc.	After Disc	Amt. excl Disc.	Total Amount
	237	10%	213.3	28.5	241.8
Project: DD	Amount for disc	Disc.	After Disc.	Amt. excl Disc.	Total Amount
	213.3	5%	202.64	28.5	231.14

Table 2- Discount calculation example

CR5577 – Yard Comparison Summary Report

Description: Yard Comparison Summary Report - In here we can see on a section level (good), however we're not able to extract/separate (on an excel sheet) only that information. For analyzing, on a user Yard selection perspective, an extract like this would in fact give a better compare overview, of the total Adjustments, Yard bid. If the user wants to compare the yards quotes, for choosing a Yard, if we go to the "Yard Compare Quotes" screen: and select , Comparison Worksheet:

Yard Quotes Comparison - Summary					
Project Code : ODD2222 - UAT Stolt Egret drydock EUR ODD2222					
Vessel : T0110 - Stolt Egret					
			GERMAN DRY DOCKS GMBH & CO KG Terms of Payment: 70% ON DEPARTURE AND 30% AFTER 30 DAYS Currency : EUR (0.890710) Rating: 0		
			ASTILLEROS DE SANTANDER SA Terms of Payment: before leaving yard 100% Currency : EUR (0.890710) Rating: 0		
Project ID	Description	Criteria Code	Amount		Amount
020	Docking & General Services		3,073.11		20,934.73
030	Gas-Freeing and Cleaning		62.37		6,359.68
110	Shell and Main Deck		16,055.05		15,925.92
410	Main Engine		3,206.56		4,008.20
	Total Yard Cost		22,397.09		47,228.53
	Overall Discount (%)		0.00	5.00	2,361.43
	Overall Discount(Amount)		1.00		.00
	Adjustment		5,460.00		1,651.00
	Un-Quoted		3,000.00		10,000.00
	Yard Net Total		30,856.09		56,518.10
	Total Owner		.00		.00
	Total Project Costs		30,856.09		56,518.10
	Owner Cost (PO)		17,990.55		17,990.55
	Owner Cost (Invoice)		.00		.00
	Days in Dry Dock		7.0	5.0	
	Days not in Dry Dock		2.0	1.0	
	Deviation Days		0.0	0.0	
	Total Offhire		9.0	6.0	.00
	Project Overview Cost		48,846.64		74,508.65

Figure 37- Yard Quotes Comparison - Summary

If we select the Comparison Summary

Yard Comparison Summary Report
 Vessel: T0110 - Stolt Egret
 Project: ODD2222 - UAT Stolt Egret drydock EUR ODD2222

		<input type="checkbox"/> ASTILLEROS DE SANTANDER SA Terms of Payment: before leaving yard 100% Currency : EUR (0.890710) Rating: 0		<input checked="" type="checkbox"/> GERMAN DRY DOCKS GMBH & CO KG Terms of Payment: 70% ON DEPARTURE AND 30% AFTER 30 DAYS Currency : EUR (0.890710) Rating: 0	
ID	Description		Amount		Amount
020	Docking & General Services		3,073.11		20,934.73
030	Gas-Freeing and Cleaning		62.37		6,359.68
110	Shell and Main Deck		16,055.05		15,925.92
410	Main Engine		3,206.56		4,008.20
	Total Yard Cost		22,397.09		47,228.53
	Overall Discount (%)	0.00	.00	5.00	2,361.43
	Overall Discount(Amount)		1.00		.00
	Adjustment		5,460.00		1,651.00
	Un-Quoted		3,000.00		10,000.00
	Yard Net Total		30,856.09		56,518.10
	Total Owner		.00		.00
	Total Project Costs		30,856.09		56,518.10
	Owner Cost (PO)		17,990.55		17,990.55
	Owner Cost (Invoice)		.00		.00
	Days in Dry Dock	7.0		5.0	
	Days not in Dry Dock	2.0		1.0	
	Deviation Days	0.0		0.0	
	Total Offhire	9.0	.00	6.0	.00
	Project Overview Cost		48,846.64		74,508.65

Figure 38 - Comparison Summary

Even if you go to the YARD details (below screenshot) and select details, this overview will not give the total SUM amount of all section costs.

1 Yard Quotes Comparison - Details															
2 Project Code : ODD2222 - UAT Stolt Egret drydock EUR ODD2222															
3 Vessel : T0110 - Stolt Egret															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
			ASTILLEROS DE SANTANDER SA Terms of Payment: before leaving yard 100% Currency : EUR (0.890710) Rating: 0				GERMAN DRY DOCKS GMBH & CO KG Terms of Payment: 70% ON DEPARTURE AND 30% AFTER 30 DAYS Currency : EUR (0.890710) Rating: 0								
	Ver.	+	Task	Bid Amt	Disc. Am	Total Bid Amt	Adjustment	Un-quoted	Total Yard Amt	Bid Amt	Disc. Am	Total Bid Amt	Adjustment	Un-quoted	Total Yard Amt
	Section: 020 - Docking & General Services														
	Job: 020.1 - DRY DOCKING														
	1		Dock preparation anc	4,453.55	####	2,226.78	.00	.00	2,226.78	2,226.78	.00	2,226.78	450.00	.00	2,676.78
	1		Each following day	178.14	.00	178.14	.00	.00	178.14	445.36	.00	445.36	.00	.00	445.36
	1		First following day	178.14	.00	178.14	4,500.00	.00	4,678.14	445.36	111.34	334.02	.00	.00	334.02
	1		Total price this drydo	8.91	.00	8.91	.00	.00	8.91	4,453.55	.00	4,453.55	.00	.00	4,453.55
				4,818.74	2,226.78	2,591.97	4,500.00	0.00	7,091.97	7,571.04	111.34	7,459.71	450.00	0.00	7,909.71

Figure 39 - Yard Quotes Comparison - details

In any of the above given options I'm able to choose on a section level, meaning, I not able to extract just the following info (just like it is).

Items		ASTILLEROS DE SANTANDER SA Terms of Payment: before leaving yard 100% Currency : EUR (0.890710) Rating: 0					GERMAN DRY DOCKS GMBH & CO KG Terms of Payment: 70% ON DEPARTURE AND 30% AFTER 30 DAYS Currency : EUR (1.122800) Rating: 3						
Ver.	+ Task	Bid Amt	Dis...	Total Bid Amt	Adjustment	Un-quoted	Total Yard Amt	Bid Amt	Dis...	Total Bid Amt	Adjustment	Un-quoted	Total Yard Amt
* Section: 020 - Docking & General Services													
		5,299.72	2,2...	3,073.11	4,500.00	3,000.00	10,573.11	21,046.01	111...	20,934.73	495.00	10,000.00	31,429.73
* Section: 030 - Gas-Freeing and Cleaning													
		62.35	0.00	62.37	0.00	0.00	62.37	6,359.67	0.00	6,359.68	0.00	0.00	6,359.68
* Section: 110 - Shell and Main Deck													
		16,055.05	0.00	16,055.05	560.00	0.00	16,615.05	15,925.89	0.00	15,925.92	556.00	0.00	16,481.92
* Section: 410 - Main Engine													
		3,206.56	0.00	3,206.56	400.00	0.00	3,606.56	4,008.20	0.00	4,008.20	600.00	0.00	4,608.20
Σ		24,623.68	2,2...	22,397.09	5,460.00	3,000.00	30,857.09	47,339.77	111...	47,228.53	1,651.00	10,000.00	58,879.53

Figure 40 - Yard compare Quotes

In here we can see on a section level (good), however we're not able to extract/separate (on an excel sheet) only that information.

For analyzing, on a user Yard selection perspective, an extract like this would in fact give a better compare overview, of the total Adjustments, Yard bid, etc.

Below is a UI change request in order to supply proper overview on YARD Total Cost.

Project		SHIPYARD AND REIMERSWAAL BV Currency : EUR (1.122800) Rating: 3						
ID	Description	Bid Amt	Dis...	Total Bid Amt	Adjustment	Un-quoted	Total Yard Amt	
020	Docking & General Services	33,780.02	0.00	33,780.05	-6,613.54	0.00	27,166.51	
030	Gas-Freeing and Cleaning	1,883.50	0.00	1,883.50	622.88	3,000.00	5,506.38	
	Job: 030.1 GAS-FREE CERTIFICATION	1,235.08	0.00	1,235.08	622.88	0.00	1,857.96	
	Job: 030.2 VENTILATION	648.42	0.00	648.42	0.00	0.00	648.42	
	Job: 030.3 Sludge removal	0.00	0.00	0.00	0.00	3,000.00	3,000.00	
110	Shell and Main Deck	16,445.65	0.00	16,445.63	0.00	566.25	17,011.88	
130	Ballast/Void Space Coating	0.00	0.00	0.00	0.00	0.00	0.00	
470	Propeller, Shafting & Steering	29,260.17	0.00	29,260.16	0.00	0.00	29,260.16	
620	Steam Systems	2,868.75	0.00	2,868.75	4,665.60	0.00	7,534.35	
640	Other Systems	3,705.24	0.00	3,705.24	0.00	0.00	3,705.24	
Total		87,943.33	0.00	87,943.33	-1,325.06	3,566.25	90,184.52	
Overall Discount (%)								.00
Overall Discount(Amount)								.00
Yard Net Total								90,184.52
Days in Dry Dock								
Days not in Dry Dock								
Deviation Days								
Total Offhire								
Σ								90,184.52

Figure 41- Summary requested

CR5578 – Option to review the Job history from Previous DD

Description: Some Jobs during Dry Docking are open for readings (clearances) and found in good condition. But remarks are added to Re-schedule for the next Dry-docking. This Flag Jobs should be filter and high light to the superintendent when building new DD Specification. The system need to have a view option to selected all Flag jobs from previews DD that need to be included on the new Spec, once select the to add the JOBS tasks need to be also created as per the previews. If the Section does not exist or deleted need to be created or deletion need to be revert. On Progress Overview screen, add a column “Follow-up” under Tasks grid as an indicator to superintendent to re-schedule for next Dry-Docking. If a project is copied from a closed project, the flag “Follow-up” will be show on close project lookup. So, superintendent can filter by the flag.

1. On Progress Overview, user selects a job and check under “Follow-up” column. Also on Details tab, task level

The screenshot shows the 'Progress Overview' window for project ODD1126. The summary section includes Project Code, Vessel (STOLT KESTREL 2015 DO IS 22.5ys), Status (In Progress), and Budget (0.00). The main table lists tasks with columns for ID, Description, Job Category, Budget, PTD, PTC, Deviation, Disc. %, Job Status, Final Amt., and Follow-up. The 'Follow-up' column has a checkmark for task 020.1 'KEEL AND/OR BILGE BLOCK'.

ID	Description	* Job Category	Budget	PTD	PTC	Deviation	Disc. %	Job Status	Final Amt.	Comments	Follow-up
Project: ODD1126			125,676.19	0.00	0.00						
020	Docking & General Services		27,165.43	.00	.00	.00					<input checked="" type="checkbox"/>
020.1	KEEL AND/OR BILGE BLOCK	YARD	437.89	.00	.00	.00	.0000	.0000	In Progress		<input checked="" type="checkbox"/>
		OWNER	437.89	.00	.00	.00	.0000	.0000			<input type="checkbox"/>
030	Gas-Freing and Cleaning		5,506.38	2,470.16	2,470.16	.00	.00	.00	Completed		<input type="checkbox"/>
110	Shell and Main Deck		17,011.90	.00	.00	.00	.00	.00	Not Started		<input type="checkbox"/>
120	Internal Structures		21,243.34	18,124.33	18,124.33	.00	.00	.00	Completed		<input type="checkbox"/>
130	Ballast/Void Space Coating		6,736.80	.00	.00	.00	.00	.00	In Progress		<input type="checkbox"/>
210	Moorng Arrangements & Rigging		1,167.71	1,167.71	1,167.71	.00	.00	.00	Completed		<input type="checkbox"/>
630	Lube & Fuel Oil Systems		.00	.00	.00	.00	.00	.00	Completed		<input type="checkbox"/>
640	Other Systems		3,705.24	3,705.24	3,705.24	.00	.00	.00	Completed		<input type="checkbox"/>
Total			125,676.19	102,188.77	102,188.77	.00	.00	.00			

Figure 42 - Follow up check box

2. Once the project is closed, it can be copied to create as a new project.

The screenshot shows the 'Manage Projects' window for a new project 'Copy As MT Dry Docking Project 2014'. The 'Jobs' section is expanded, showing a list of tasks with columns for Ver., No., Description, Approval Status, Account Code, and Follow-up. The 'Follow-up' column has checkmarks for 'DRY DOCKING' and 'KEEL AND/OR BILGE BLOCK'.

Ver.	No.	Description	Approval Status	Account Code	Follow-up
	020.1	DRY DOCKING	Not Started		<input checked="" type="checkbox"/>
	020.2	KEEL AND/OR BILGE BLOCK	Not Started		<input checked="" type="checkbox"/>
	020.3	WHARFAGE	Not Started		<input type="checkbox"/>
	020.4	ENTERING & M...	Not Started		<input type="checkbox"/>
	020.5	GANGWAYS	Not Started		<input checked="" type="checkbox"/>
	020.6	BALLAST WAT...	Not Started		<input type="checkbox"/>
	020.7	BOTTOM PLUG ...	Not Started		<input type="checkbox"/>

Figure 43 – New project copied from closed

3. If user inserting a job by selecting “Copy from Prev. Project Job”, Follow-up column also available on the lookup

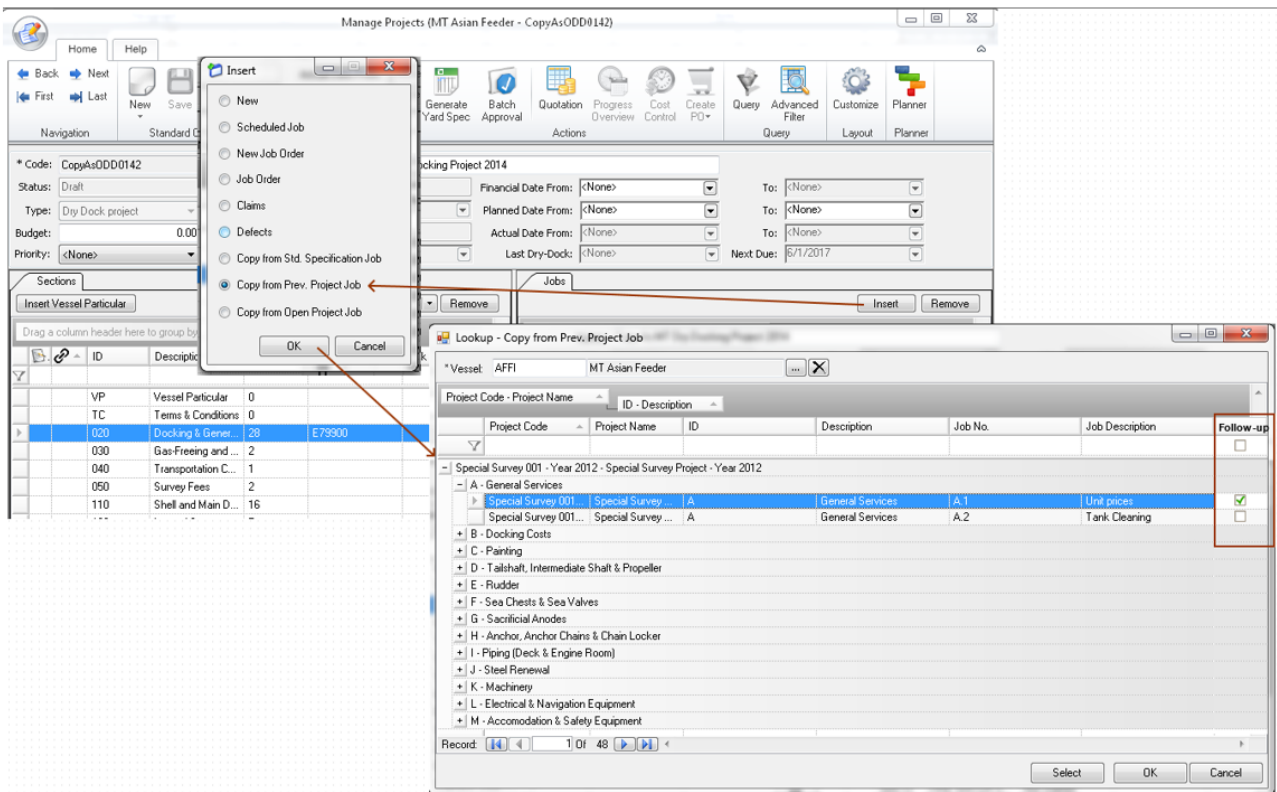


Figure 44 - Copy Job from previous project

CR5578 – Yard quotation Owner Comments – too Short

Description: During Yard Quotation Review there is the need to comment and log some discussions and the field is too short for long comments. The system should allow long and edit field to add (documented) the negotiation. On Yard Quotation screen, extend length to 2000 characters for Yard Comments and Owner Comments. System allows expanding the comments with a right click option “View Full Text”.

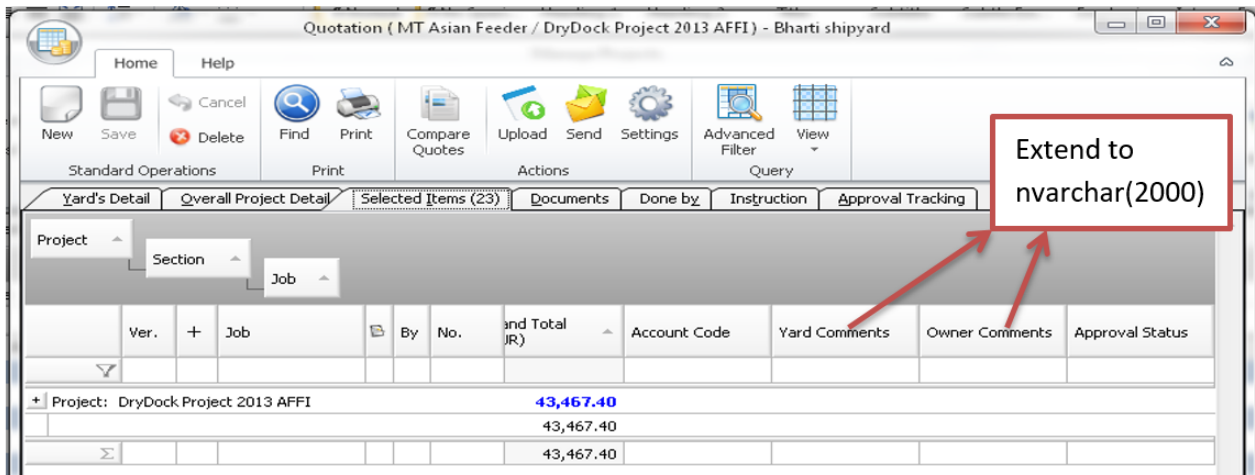


Figure 45 - Comments Field

Right click on column Yard Comments or Owner Comments, a context menu with “View Full Text” option popup. Select “View Full Text”, a window shows full comments popup.

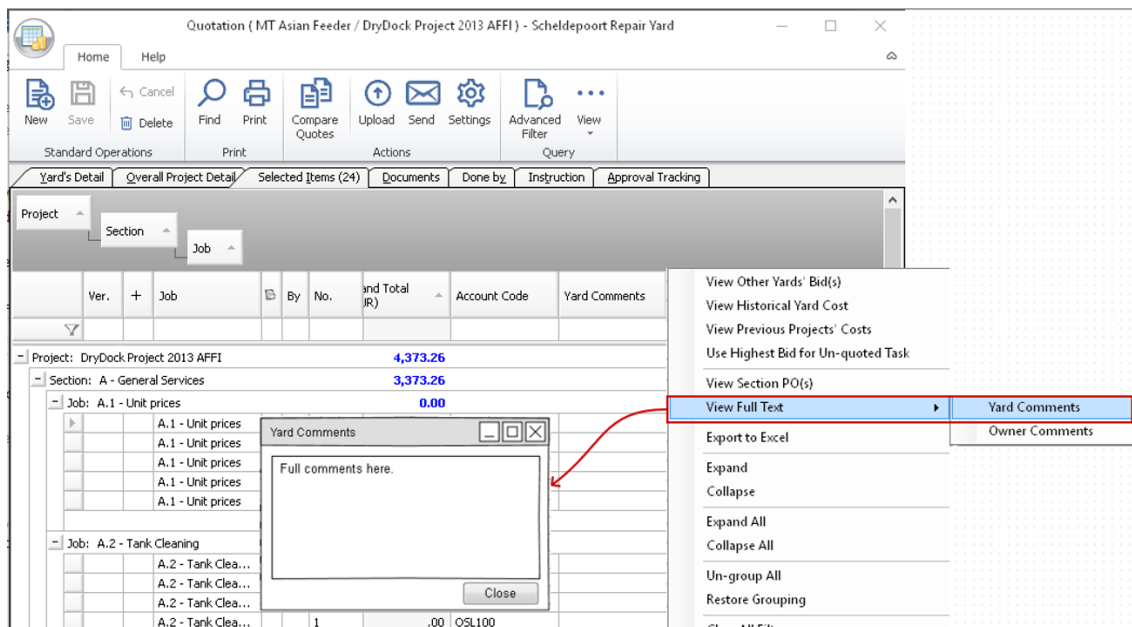


Figure 46 - Yard and owner comments

CR4233 – Yard un-quoted jobs

Description: In case if the Yard didn't quote for the Job/s in a spec we want to be able use the highest bid from another Yard, but in BASSnet there is no such function and we have to enter cost for Un-quoted job manually. Be able to use a Yard biggest bid. To have functionalities for the un-quoted Task on Project Jobs to auto update the price from the highest bidder. To get advice from

‘Update Un-quoted price to Highest Bid’; to add new Tool Tip for the unquoted price to show the Yard Reference of the highest bidder.

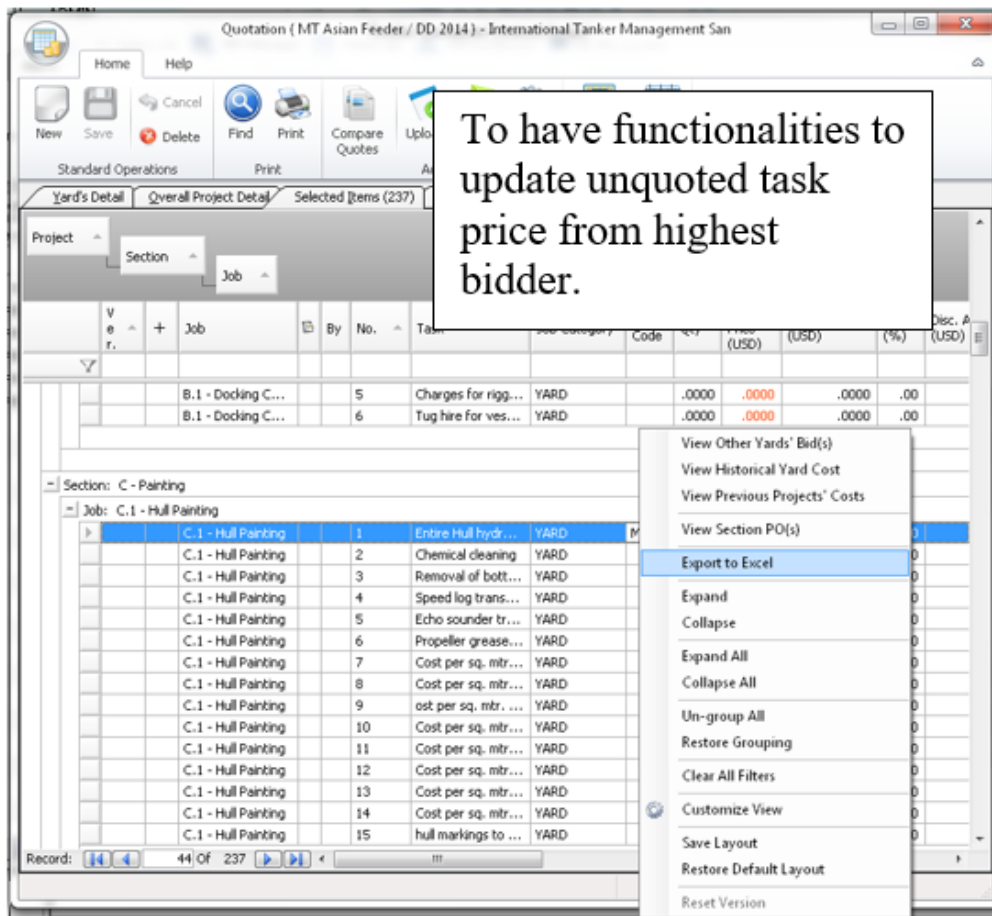


Figure 47 - Use Highest bidder offer

C. Project Budgeting

CR4946 – Option to remove job after "Tendered"

Description: Job’s “Remove” button will be disabled for Project status “Tendered” and onwards. However, shouldn’t this be allowed at least for the Supplementary/Extra jobs? Those are added after, and we should be able to remove them if the quotation was not sent to the yard for those jobs. If the user added a job by mistake, how can he revert back? After the Project status is tendered or in any status onwards, the user is able to inset jobs but not to remove them. Also allow to remove extra job if budget has not approve. Only Completed & Closed project cannot remove job.

1. Tender/Quoted can remove:
 - a. Section/Job/Task (Any type)
2. Awarded can remove:

- a. Not quoted supplementary job/task
- 3. In progress can remove
 - a. Not quoted approved extra job/task.

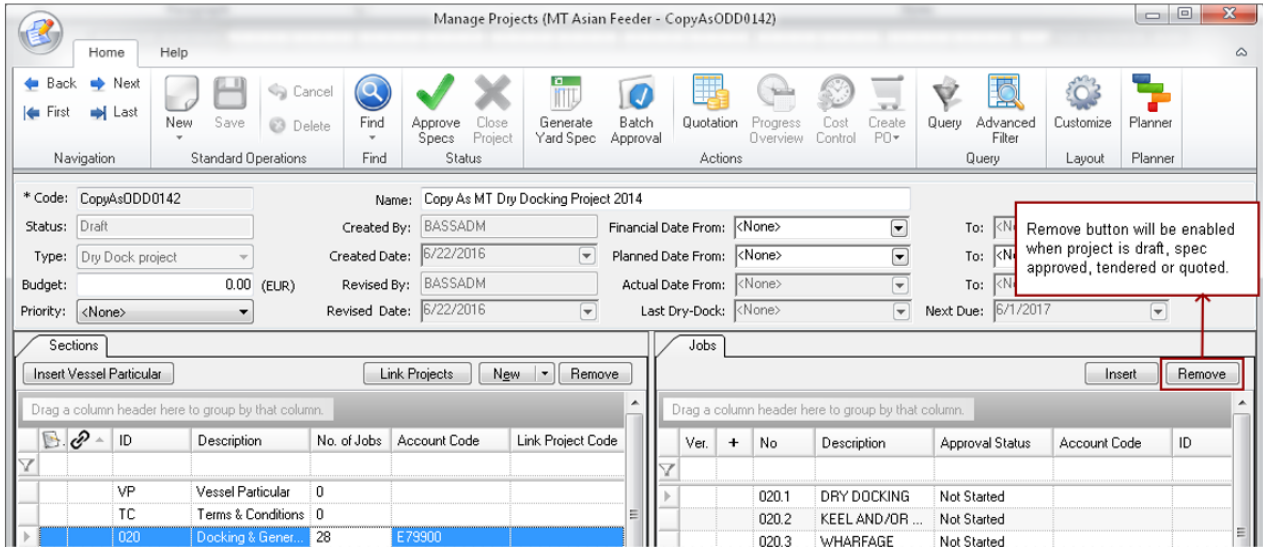


Figure 48 - Remove button enable

Removing job will results change of budget. If the project type has Project Budget approval setup and is approved, any changes that meet project budget deviation will trigger re-approval.

CR5583 – Project Quotation Screen Option – Grid Change

Description: Dry Docking Project budget is mainly submit Off-hire Time and Money required to execute the maintenance jobs. The information required for approvers need to show all these

information so the decision can be taken. Add a column “Total Off-hire Days” on Yard find grid. Propose to use “Customize View” to customize visible columns.

The screenshot shows a software window titled "Quotation (Stolt Inspiration / ODD1194)". The interface includes a ribbon with tabs for "Home" and "Help", and various action buttons like "New", "Save", "Cancel", "Delete", "Find", "Print", "Compare Quotes", "Upload", "Send", "Settings", "Advanced Filter", and "View". Below the ribbon are tabs for "Yard", "Project Summary", and "Section Summary". A data grid is displayed with the following columns: Awar..., Yard C..., Yard Name, Quot..., Status, Currency, Curr. Rate, Total Bid, Total Bid (Base Curr.), Adju..., Un..., Total..., and Total Offhire Days. The "Total Offhire Days" column is highlighted with a red border. The grid contains several rows of data, including entries for "GERMAN DRY DO...", "ANTWERP SHIP...", "STOLT TANKERS...", and "KEPPEL VEROLM...".

Awar...	Yard C...	Yard Name	Quot...	Status	Currency	Curr. Rate	Total Bid	Total Bid (Base Curr.)	Adju...	Un...	Total...	Total Offhire Days:
	10160...	GERMAN DRY DO...	21/A...	Awarded	EURO	1.076300	338,521.90	364,351.12	234,...	13.9...	613,...	0.00
	10056...	ANTWERP SHIP ...	22/A...	Quoted	EURO	1.076300	366,454.00	394,414.44	212,...	10.9...	617,...	12.0
	10078...	STOLT TANKERS ...	16/A...	RFQ	POUND STE...	1.538000	268,559.86	399,482.79	164,...	38.7...	602,...	12.0
	10035...	KEPPEL VEROLM...	14/A...	RFQ	EURO	1.076300	545,398.93	587,012.87	114,...	38.2...	740,...	12.0

Figure 49 - Off-hire Days column

Customize view to custom grid view:

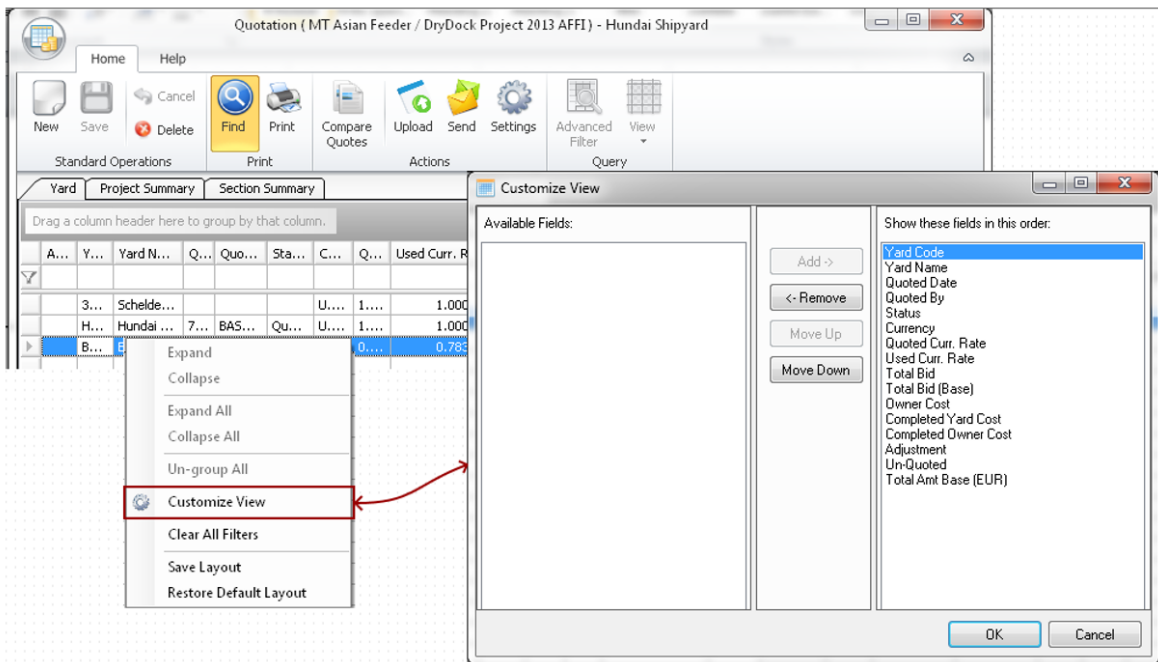


Figure 50 - Customize view

CR5583 – Project Yard Quotations – Remove the (Total) Off-hire cost calculation

Description: A configures setting to exclude off-hire cost into calculation of Project Overview Cost. By default, the configures setting is disabled. Once the setting enabled, off-hire cost will not take into account.

The screenshot shows the 'Yard Compare Quotes' window for 'MT Asian Feeder / DryDock Project 2013 AFFI'. The 'Yard Details' tab is active, showing a table with columns for Project, Criteria, and Amount. The table lists various cost components for three yards: Scheldepoort Repair Yard, Hundai Shipyard, and Bharti shipyard. The 'Total Offhire' row is highlighted with a red box, and a callout box points to it with the text 'Cost of offhire will not take into calculation which affecting Project Overview Cost.'

Project	Criteria	Scheldepoort Repair Yard Currency : USD (1.00000...)	Hundai Shipyard Currency : USD (1.00000...)	Bharti shipyard Currency : USD (0.7839...)
ID	Description	Code	Amount	Amount
	Total Yard Cost		.00	34,022.00
	Overall Discount (%)	0.00	0.00	0.00
	Overall Discount(Amount)		.00	.00
	Adjustment		.00	.00
	Un-Quoted		.00	.00
	Yard Net Total		.00	34,022.00
	Total Owner	1,000.00	1,000.00	783.95
	Total Project Costs	1,000.00	35,022.00	43,467.40
	Owner Cost (PO)		.00	.00
	Owner Cost (Invoice)		.00	.00
	Days in Dry Dock	0.0	0.0	0.0
	Days not in Dry Dock	0.0	0.0	0.0
	Deviation Days	0.0	0.0	0.0
	Total Offhire	0.0	0.0	0.0
	Project Overview Cost	1,000.00	35,022.00	43,467.40

Figure 51- Off-Hire cost

CR5585 – Project Yard Quotations – Pre-award Yard

Description: Introduce a new access right (Yard Selection) to define permission to select yard. Yard Selection approval setup remains but does not monetary limit. Yard Selection approval workflow:

- Once user with permission selects a yard and saves, click Approve button to send request to next approval user.
- If next level approval user reject, approval workflow will be reset.
- If yard selection is approved, Award button will enabled. User can proceed to award the selected yard.

- d. An awarded yard can be revoke. Once it is revoke, yard selection approval has to reset.

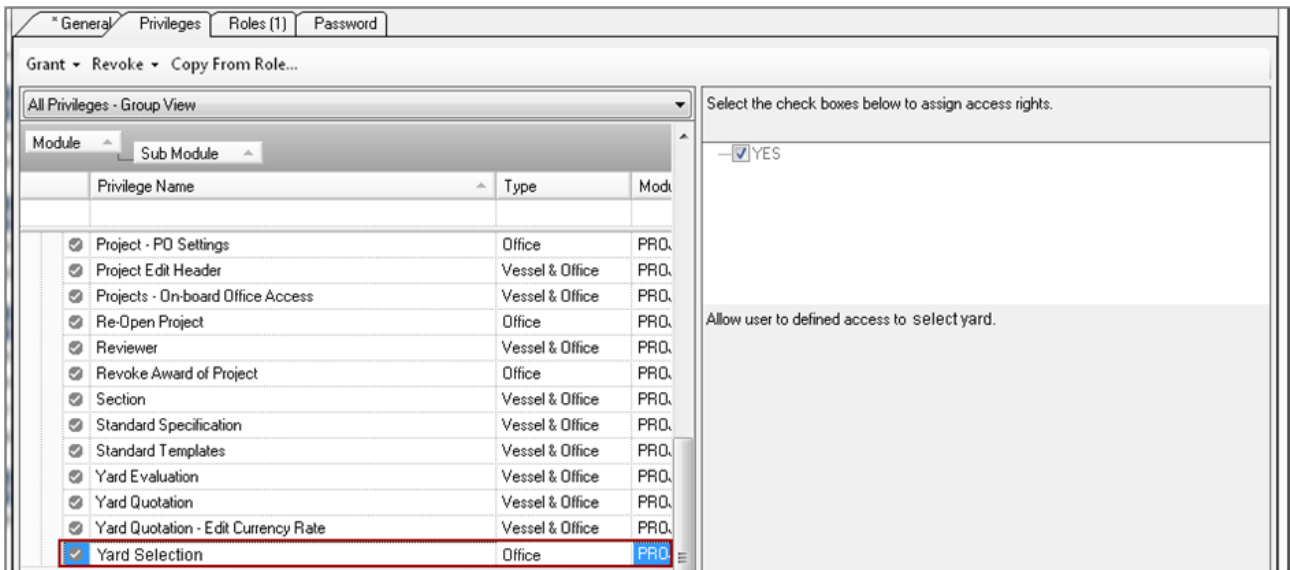


Figure 53 - Yard Selection Privilege

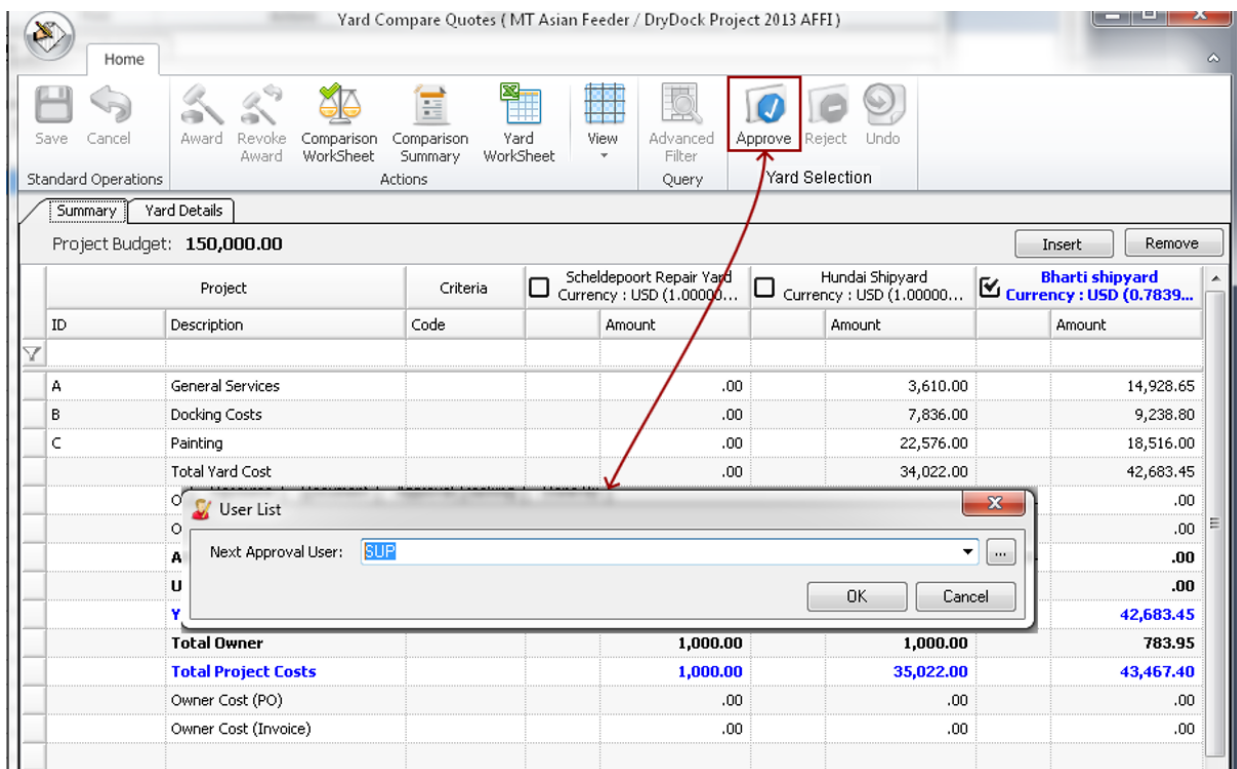


Figure 52- Approve Budget

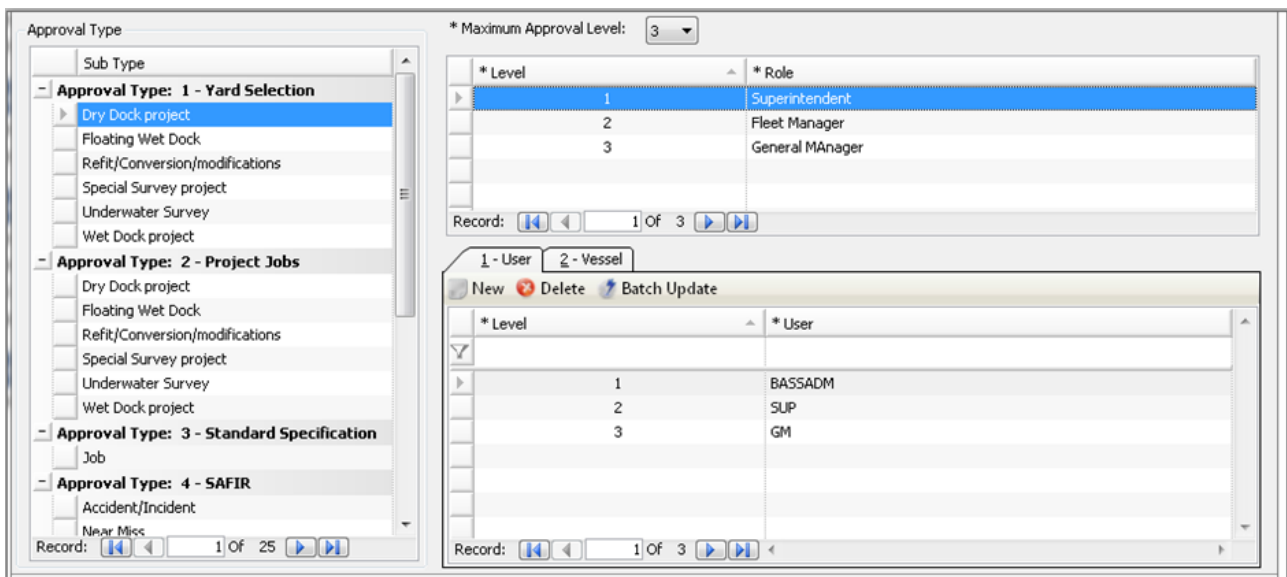


Figure 54 - Approval levels

CR5586 – Submit Project Budget for Approval

Description: Dry-Docking Project Budget is mainly submit Off-hire Time and Money required to execute the maintenance Jobs. The information required for approvers needs to show all this information so the decision can be taken.

E.g.: the estimate fuel cost HFO and MDO. Insert the Fuel Cost by adding the criteria, and the cost will add up on the budget for approval.

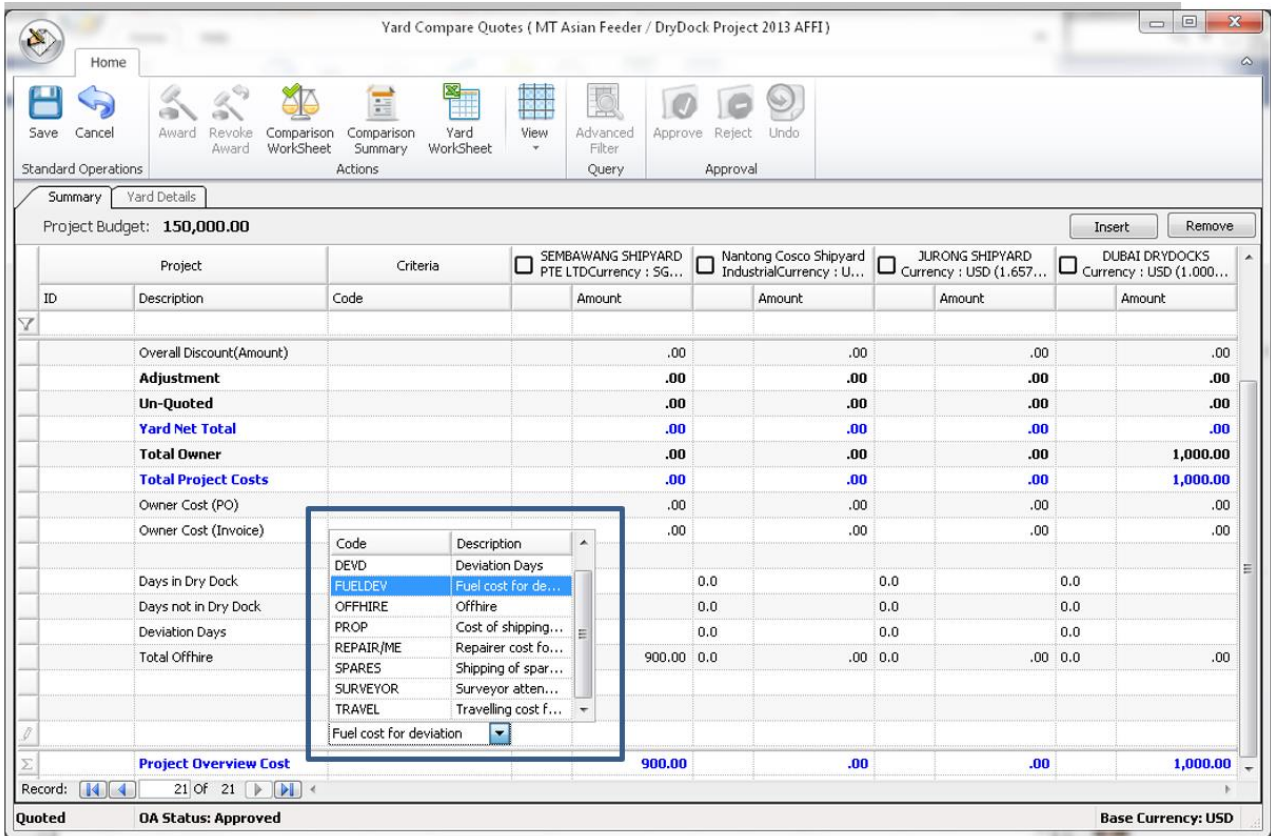


Figure 55 - Fuel Costs

D. Project Execution

CR5588 – Award YARD Budget PO

Description: Using the exist functionality from BASSnet integration between Procurement and Project Module we allow to create a Project PO. This PO will collect all relevant information once created as Project in “Progress” status. The amount that will populate the PO will be based on completed tasks. If the Tasks/Jobs are not reported as complete no amount is added the PO shows the amount as “0”. The functionality as-is, does not cover the functionally needed. The goal is to have a good Budget follow-up following the Procurement functionality using the exist voucher type “5” – Estimates; “0” – Actual. This way we will have good project cost estimates and later closing out. The concept will be that once the Budget approved and consequent the proposed yard will be awarded the Project Manager will be able to Create “Project Budget PO” where the qt. is 1 and Unit Price is = Yard bid amount per Section (note the Un-quoted and Adjustments are exclude). If different currency than company base currency the currency exchange rate should be the one set in the project. Since the Budget was already approved the PO should be by default “Approved” by Budget approver. This way the Cost will have an entry on the budget as Estimate “5”. The PO

created need to be Status as “Order” and PO Type “Project”. PO Line Items are creates per section/account code, e.g. some JOBS the GL ACC is 151810 and other in the same section is 526320 the PO lines need to have two lines with same Section but different GL Account.

Enhancements are required in the Projects module and Procurement module, and the enhancement scope in Projects module will apply to all projects that consists of yard task.

1. Create project PO on Manage Projects

- If project’s status = Awarded, Create PO > Project will be enabled.

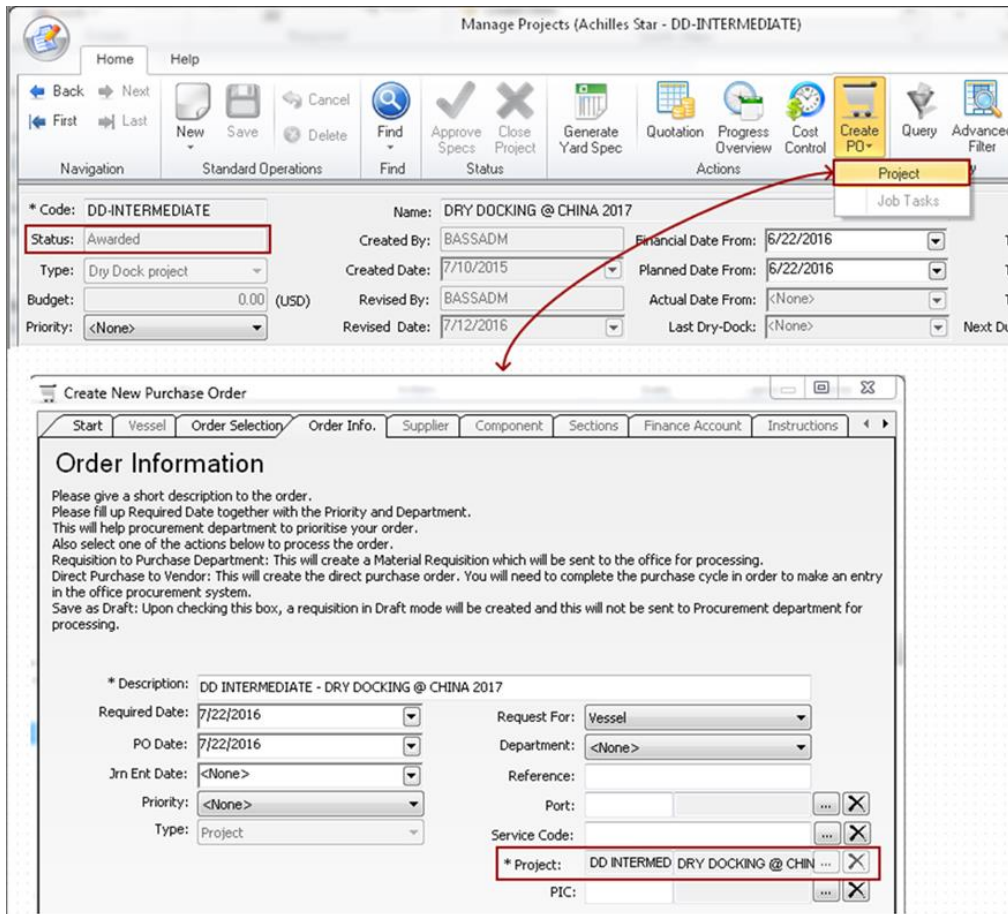


Figure 56 - Create Project PO

2. Project PO wizard

- If project status = Awarded, bid amount (without adjustment & un-quoted) will be default into PO line’s unit price, and quantity is set to 1.

- If projects status = In Progress or Completed, bid amount + adjustment + un-quoted will be default into PO line's unit price.

Ver.	Job	ID	No.	Total Amt (JPY)	Adjustment (JPY)	Un-quoted (JPY)	Grand Total (JPY)	Amt Base (USD)
Project: DD-INTERMEDIATE				26,155,103.00	0.00	0.00	26,155,103.00	253,747
Sections: A - General Services				233,478.00	0.00	0.00	233,478.00	2,279
Sections: B - Docking Cost				193,863.00	0.00	0.00	193,863.00	1,859
Sections: C - Painting				719,831.00	0.00	0.00	719,831.00	6,903
Sections: D - Tailshaft, Intermediate Shaft & Propeller				3,279,008.00	0.00	0.00	3,279,008.00	31,445
Sections: E - Rudder				2,650,096.00	0.00	0.00	2,650,096.00	25,414
Sections: F - Sea chests & Sea Valves				662,524.00	0.00	0.00	662,524.00	6,353
Sections: G - Sacrificial Anodes				331,262.00	0.00	0.00	331,262.00	3,176
Sections: H - Anchor, Anchor Chains & Chain Locker				1,325,048.00	0.00	0.00	1,325,048.00	12,707
Sections: I - Piping (Deck & Engine Room)				993,786.00	0.00	0.00	993,786.00	9,530
Sections: J - Steel Renewal				2,981,358.00	0.00	0.00	2,981,358.00	28,591
Sections: K - Machinery				8,944,074.00	0.00	0.00	8,944,074.00	85,773
Sections: L - Electrical & Navigation Equipment				2,815,727.00	0.00	0.00	2,815,727.00	27,002

No.	ID	Description	Qty. Ordered	Unit Price	%	Amount
1.	A	General Services	1	233,478.00		233,478.00
2.	B	Docking Cost	1	193,863.00		193,863.00
3.	C	Painting	1	719,831.00		719,831.00
4.	D	Tailshaft, Intermediate Shaft & Pro	1	3,279,008.00		3,279,008.00
5.	E	Rudder	1	2,650,096.00		2,650,096.00
6.	F	Sea chests & Sea Valves	1	662,524.00		662,524.00
7.	G	Sacrificial Anodes	1	331,262.00		331,262.00
8.	H	Anchor, Anchor Chains & Chain Lo	1	1,325,048.00		1,325,048.00
9.	I	Piping (deck & Engine Room)	1	993,786.00		993,786.00
10.	J	Steel Renewal	1	2,981,358.00		2,981,358.00
11.	K	Machinery	1	8,944,074.00		8,944,074.00
12.	K	Electrical & Navigation Equipment	1	2,815,727.00		2,815,727.00

Figure 57 - Project PO section level

- The PO line is displayed by Section - acct code.
- Used Curr. Rate of awarded yard will be taken to Project PO.

No.	ID	Description	Qty. Ordered	Unit Price	%	Amount
1.	A	General Services	1	233,478.00		233,478.00
2.	B	Docking Cost	1	193,863.00		193,863.00
3.	C	Painting	1	719,831.00		719,831.00
4.	D	Tailshaft, Intermediate Shaft & Pro	1	3,279,008.00		3,279,008.00
5.	E	Rudder	1	2,650,096.00		2,650,096.00
6.	F	Sea chests & Sea Valves	1	662,524.00		662,524.00
7.	G	Sacrificial Anodes	1	331,262.00		331,262.00
8.	H	Anchor, Anchor Chains & Chain Lo	1	1,325,048.00		1,325,048.00
9.	I	Piping (deck & Engine Room)	1	993,786.00		993,786.00
10.	J	Steel Renewal	1	2,981,358.00		2,981,358.00
11.	K	Machinery	1	8,944,074.00		8,944,074.00
12.	K	Electrical & Navigation Equipment	1	2,815,727.00		2,815,727.00

Figure 58 - Used Currency Rate

- If the project's budget approval status = Approved, a Project PO created will be auto approved provided no changes to PO lines' unit price. Otherwise, PO approval is required.
- The created PO should have status "Order" as initial status.

- When save Project PO, also save to Job.
 - Save the PO line amount and prorate of PO line amount to new table (BASSMT.BASS_JOBHEADER_PO).

CR5589 – Award YARD Budget PO

Description: During Project PO creation, sections lookup is listed and showing its account. If there is any section added to an active PO but with different account, the section still can add to a PO. Otherwise, the section should not show on Sections lookup.

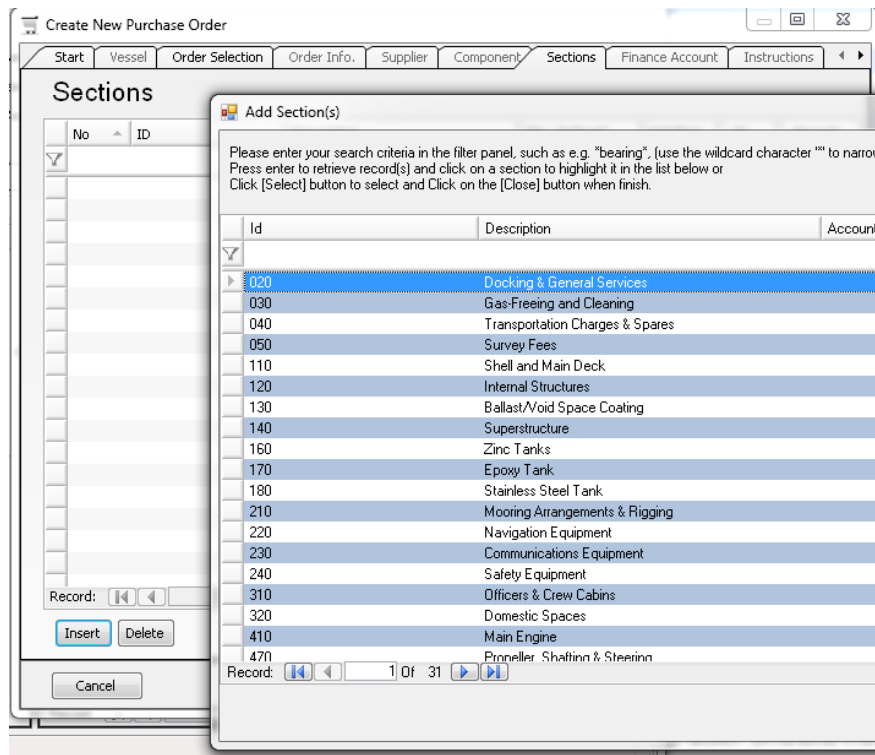


Figure 59 - Section Project PO wizard

CR5590 – YARD Budget PO

Description: Using the exist functions from BASSnet just looking for new functionality's in order to improve the process. Notice that there's an option to "Revaluate" bottom in the PO head, this is just updating PO with current currency exchange rate. This option will be important when the PO will get final (if the supplier currency is not the same as Base currency). But new functionality will be needed for Project PO. Project Budget PO will be created base on the YARD Bid amount. As the

project progress jobs/tasks will be added or Cancel and YARD Adjustment or Un-quoted can start to be use on PO existing Sections. This lead to: #1 Use the Option to Reevaluate function to prompt not just for Exchange rate update but an option to “correct Items lines” with Estimate amount. #2 Just the sections in the PO need to be updated, in case a new section is added in the project the User will need to use “Insert” functionality. #3 If new Job is Added to a section in the project need to be “approved” prior to use the estimate amount to update new Amount in that section. #4 Tasks amount does not update the PO section Amount, TASK cost will just update Budget or Estimate on Job level. #5 In case all Jobs from a section get “Cancel”, section should not be removed from PO but YARD amount should be “0”. #5 Discount % should also be updated (calculated) in the Sections Items Lines. #6 Each and every time the Reevaluation function is use need to be log on a level of cost increment overview, date and user. #7 Updated amount need always to be updated in Supplier currency. #8 Reevaluation that will increment the total amount need to be reapproved if the Total Amount is higher than the existing (last approver). #9 In case the PO need to be reapproved “Undo” is possible and even get the PO Reevaluation.\

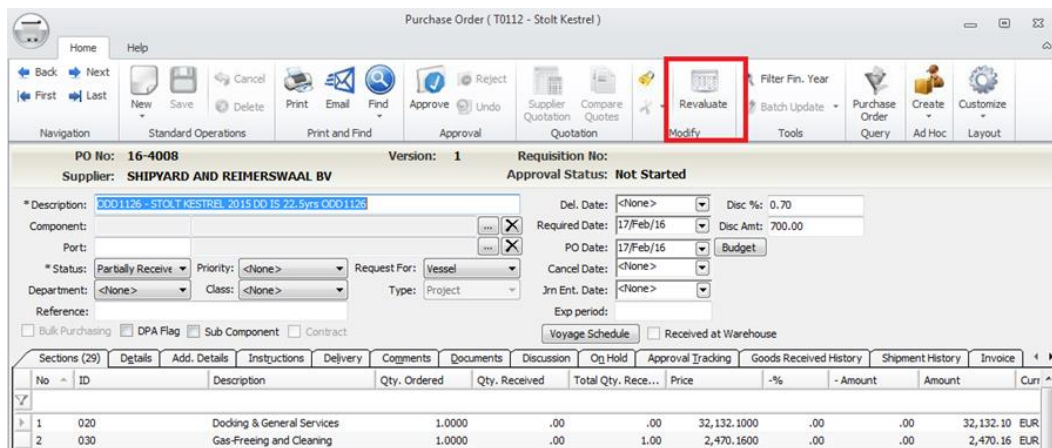


Figure 60 - Revaluation push button

CR5591 – Progress Overview – Update Project YARD PO

Description: As the dry-docking move some jobs get complete and prices get final. Request on CR the change budget may lead to approval. Base if the budget changes are approved the Superintendent should be able to update the PO per section with new amount. Superintendent update final value in 3 jobs from a section, with adjustments. Since the Adjustments was already in the budget approved the Project Budget does not need any approval and super can push to get the PO section be updated with last amount. Superintendent add more adjustment amount than budget approved. He will not be able to update PO section if the new budget is approve. If and when the new budget is approved, then superintendent can approved the Yard PO. As superintendent reporting job on progress overview, provide a menu option to update Project PO. The option only allow user to update

approved project budget to Project PO. If new budget is not approved, PO section is not allow to update.

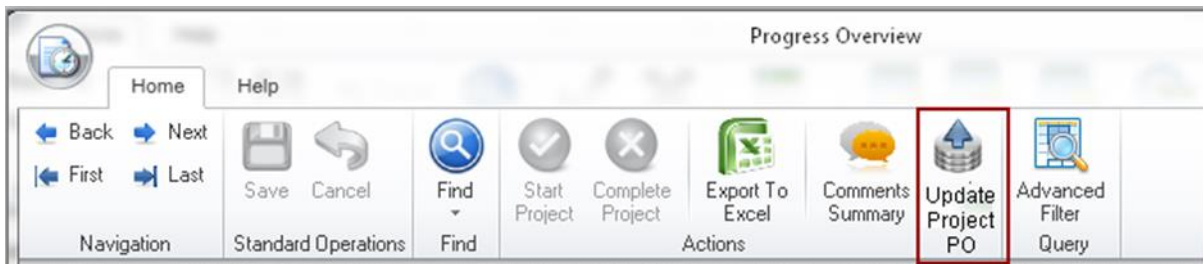


Figure 61- Update project PO

1. The button update Project PO is enabled if project budget is approved and project PO exists otherwise it is disabled.
2. Clicking the button, sections of Project PO updated with final amount (manual enter final amount or Bid amount + adjustment + un-quoted).

CR5593 – Jobs in to a Project Budget approved

Description: It's possible to add a Jobs to a Project where the Project Budget approval is started. Should be mark within versioning and as Extra Job. This new Job can have all type cost types. Any Jobs added with one or more cost tasks is a change to Project initial scope. Any new Job added to a section will need to be rerouted for Approval. Minimum need 2 level of approvers. If the Job cost sum is higher than x% from total budget submitted/approved will need to go the next approval level until the final. Just with final approval the amount can be added to the Project Budget, if already approved. And can update the Budget PO section.

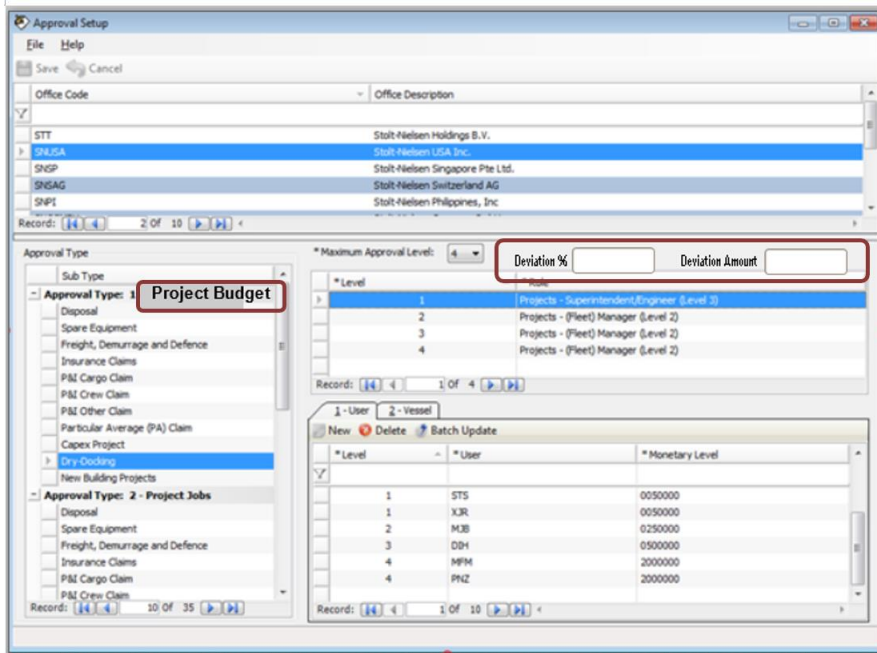


Figure 63 - Deviation in % & Amount setup

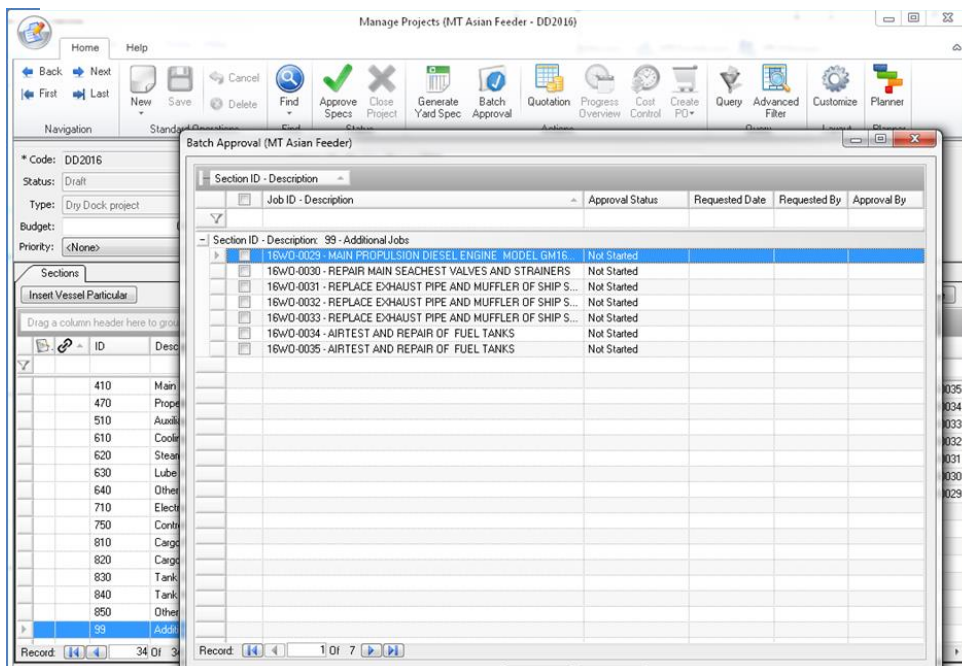


Figure 62 - Adding Jobs to the project

1. Adding job will not deviate project budget. Deviation take place when quote price been entering.
2. With budget approve, system will then update version number.

CR4340 – Extra Jobs to be editable while Project is in Progress

Description: In Project while In Progress, Extra Job should be editable, this extra jobs require to be change and subject for negotiation and needs to be editable. If the User add an extra Job/Supplementary, when after approved, if the user needs to adjust and change the description, the user is no longer able to do so, as follow:

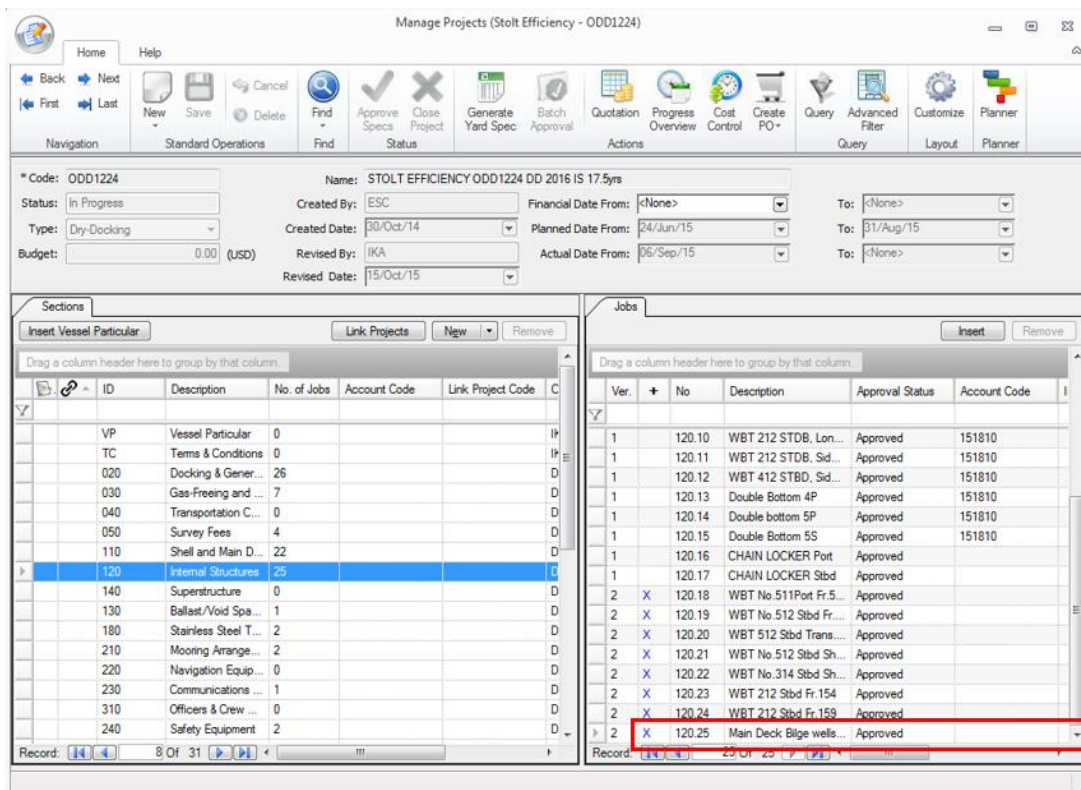


Figure 64 - Edit of Job Disable

The view and edit push button is no longer available. User should be able to correct this description, whatever is added maybe it should be highlighted, and whatever is deleted should still be showing, with a scrap or in gray. E.g. if user remove something: “Prior to commence”, or in gray “Prior to commence”.

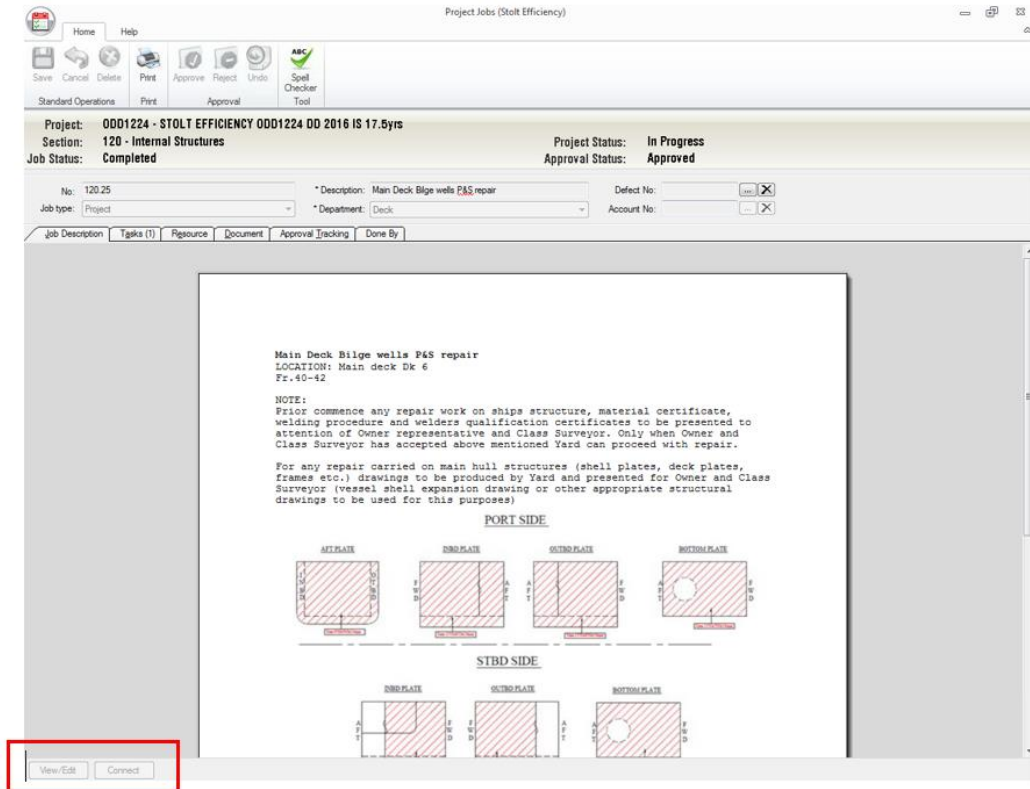


Figure 65 - Extra job added

CR5594 – Change the quantity on the task level – In Progress

Description: User should be allowed to change the quantity on the task level once the Project is in Progress. Assumptions are added during RFQ for certain qty required, but once in executing the jobs/tasks some quantity's may need to be corrected to minus or add. During Project budget creations the assumption was that the quantity of steel to be renewed in the main deck was 10 Tons but during project execution some other deck areas were found in bad conditions and the superintendent request the Yard to fixed adding more 5 tons to the task. Note the Jobs/Budget are approved and changing Qty deliver should not change the initial budget and/or quantity, the Quantity change may lead to a cost increment this cost need to be reflected on Job level no approval is required since the Job is already Budget and approved but deviation should be High light.

Project Jobs (MT Dry Docking Project)

Home Help

Save Cancel Delete Print Approve Reject Undo Spell Checker Tool

Standard Operations Print Approval

Project: **000142 - MT Dry Docking Project 2014**
 Section: **020 - Docking & General Services**
 Job Status: **Completed**

Project Status: **In Progress**
 Approval Status: **Approved**

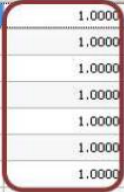
No: 020.27 * Description: Owner's Costs Defect No: X
 Job type: Project * Department: Deck Department Claim No: X
 Account No: X Priority: <None>

Job Description	Tasks (7)	Resource	Document	Approval Tracking	Done By						
	Ver. + No -	* Description	* Job Category	Cost Categ...	Account Code	Unit	Quantity				
	1 S 1	Agent	OWNER	PORTCHA...		EA	1.0000	20,000...	20,000.00	20,000.00	
	1 S 2	BRV	OWNER	MISCEXP		EA	1.0000	15,000...	15,000.00	15,000.00	
	1 S 3	DMT	OWNER	MISCEXP		EA	1.0000	15,000...	15,000.00	15,000.00	
	1 S 4	DMK	OWNER	MISCEXP		EA	1.0000	10,000...	10,000.00	10,000.00	
	1 S 5	Neil McGurk	OWNER	SUBCONW...		EA	1.0000	15,000...	15,000.00	15,000.00	
	1 S 6	Off-Hire Fuel	OWNER	MISCEXP		EA	1.0000	25,000...	25,000.00	25,000.00	
	1 S 7	Hotel	OWNER	MISCEXP		EA	1.0000	50,000...	50,000.00	50,000.00	

Record: 1 of 7

Insert Delete Connect Std Task Create New Std Task

11/09/2016 - 0
 15/09/2016 - 4



The qty change during IN PROGRESS should change color and BOLD to distinguished that this has been edited. The Original Qty should be able to show if require by using right click or some text comment.

Figure 66 - Qty Change task level

CR5597 – Progress Overview

Description: The Progress Overview is where the Project Manager track jobs completion or cancelation. On day to day job during project execution the Project manager need to access this screen and have complete overview on cost projection cancel or report progress. As per actual version (2.9) the Project Manager need to report progress on Task Level, what is leading to a lot interaction to have all tasks reported. The Project manager will need to report in Job level, TASKS should only to be view and used as support for cost build. The screen Suggestion bellow is what the Project manager need to access. And see Progress and cost overview in 3 levels Section (all columns need to be summarize on this level changes should not be allow. Jobs Level the project manager should be able to interact within Job Status, Final Amount, Discount Percentage or Discount Amount. Discount is an “Or” option, if amount is introduced the system should calculate the Percentage and vice-versa. The Project Manager need to have the option to report in Supplier Currency or base currency, the project currency exchange rate should be the used in the calculations. If on Job level the Project Manage select Complete or Cancel the system need to prompt for: Update Job Status in all Yard TASKS; Update Job Status to all not Cancel Yard Tasks; Update all tasks not Cancel; Update all. Complete Job required Cost update for Final Amount. Cancel Job Required Cost Update. Double click or Right click allow to open Job tasks window. 3 Level should show Cost Type per line No Progress should be reported just the Final amount can be updated for the YARD cost type. Project manager can type the amount as per the Currency selected or using the “F#” to access Support calculation screen or using “Target Icon” to get final amount from “Bid/Un-quoted + Adjustments. Own Cost will be updated by PO’s/Inv or crew wages. On Progress Overview > Summary, the grid layout change to shows until job level. On this grid, columns Disc., Job Status, Final Amt., Comments and Follow-up are editable. Discount columns on Progress Overview are different from the Quotation one. Discount here is a top up discount from yard. Hence, the discount value here will not overwrite the quoted discount. A dropdown of currency is provided to allow user select Base Currency or Yard Currency to report for Final Amt.

ID	Description	* Job Category	Budget	Project PTD	Project PTC	Deviation	Disc. %	Job Status	Final Amt.	Comments
Project: ODD1126			125,676.19	0.00	0.00					
020	Docking & General Services		27,166.48	.00	.00	.00	.00			
020.1	KEEL AND/OR BILGE BLOCK		437.89	.00	.00	.00	.0000	In Progress		
		YARD	437.89	.00	.00	.00	.0000			
		OWNER		.00	.00	.00	.0000			
030	Gas-Freing and Cleaning		5,506.38	2,470.16	2,470.16	.00	.00	Completed		
110	Shell and Main Deck		17,011.90	.00	.00	.00	.00	Not Started		
120	Internal Structures		21,243.34	18,124.33	18,124.33	.00	.00	Completed		
130	Ballast/Void Space Coating		6,736.80	.00	.00	.00	.00	In Progress		
210	Mooring Arrangements & Rigging		1,167.71	1,167.71	1,167.71	.00	.00	Completed		
630	Lube & Fuel Oil Systems		.00	.00	.00	.00	.00	Completed		
640	Other Systems		3,705.24	3,705.24	3,705.24	.00	.00	Completed		

Figure 67 - Progress overview new screen

When updating job status, options to update tasks' status will prompt like below:

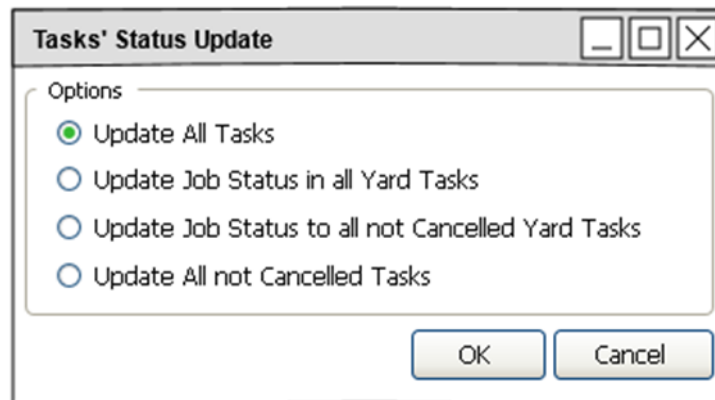


Figure 68 - Tasks status update

For the Progress Overview – Calculation:

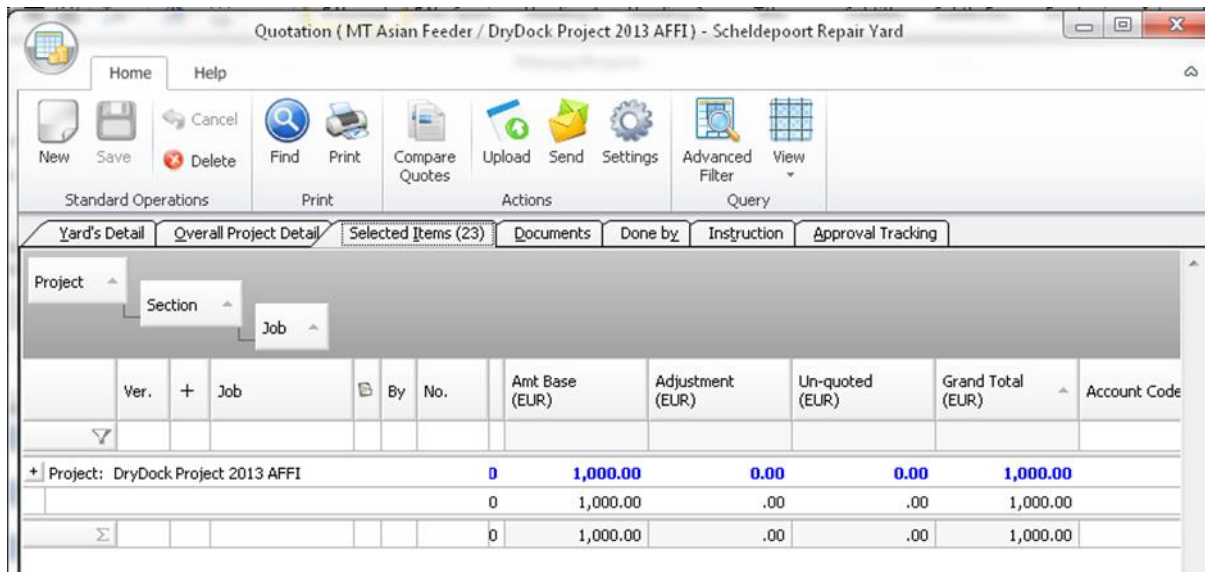
Budget	Project Budget Approved – Cannot be changed on the screen if a new Job or Extra Job is added once approved
Description	Section or Job Description
Job Category	Come from the register and group all Own or Yard
PtD	Project to Date: YARD - Collect all yard Cost already in Project Budget PO (each and every time the PO get updated). OWN – Collected all Approved PO's/or final invoice amount. All to date.
PtC	Project to Completion – Yard Tasks (BID+Un-quoted+Adjustments) + (Extra Jobs – Cancel Tasks); Own (PO/Inv + Assumptions) + Crew IPN (CBA tenure) – Cancel Own Tasks
Deviation	Budget - PTC
Discount	Should not be possible to enter on Job line but on Yard line

Table 3 - Progress View calculation

CR5599 – Progress Overview – Changing Adjustments

Description: Once the Project in Progress the adjustments should not be changed on TASK level and Quotation screen. If the Project Manager need to for some reason revise the Adjustments, he will be able to add new Task to the job and add a task for adjustments. It should not need to use the Adjustments to change the Qty requested, on task level the project Manager should be able to

change the Qty request. E.g. Qty request was 30 and during progress is now 35, this will need to calculate the total BID.



CR4592 – Project - Yard Discount

Description: Once you are at dry dock (meaning the status is in progress ,and the super is already updating all the jobs), it seems that the only way for him to do the yard discount, it's if he update the discount, item by item, on the quotation sheet himself ,and upload again the quotation sheet is this correct. Imagine now that we have a specs, with 400 items, that will be a huge amount of work for the super to update item by item, and like this wasting some time on it, not giving him a lot of flexibility. If that's the case, my improve suggestion, it's to give the flexibility to the superintendent to update this discount directly on the progress overview (in percentage or a number agreed by the shipyard and the super) once the project it's in Progress status, this will avoid the workaround (update again the quotation sheet), or even to go back to the quotation sheet for this purpose. Please keep in mind and be aware that some of the discount are obtained once the dry dock of the ship is undergoing (In progress). Give the flexibility for the Super to exclude certain jobs from the yard discount (Net price jobs like tank coating lump sum, electricity, shifting etc.)". On Progress Overview, add a new column to keep actual discount. User is allows to edit actual discount when project is during in progress.

Ver.	+	Job Category	No.	-	Task	Unit	Budget (USD)	Committed (USD)	Actual Amount (USD)	Actual Disc	Exclude Disc.
- Section: 020 - Docking & General Services							245,865.36	1,510.13	3,600.00		
+ Job: 020.1 - DRY DOCKING - In Progress - (none) - (none)							58,800.00	0.00	3,600.00		
1		YARD	1		Dock preparatio...	EA	3,600.00	.00	3,600.00		<input checked="" type="checkbox"/>
1		YARD	2		First following day	EA	1,500.00	.00	.00		<input type="checkbox"/>
1		YARD	3		Each following day	EA	43,200.00	.00	.00		<input type="checkbox"/>
1		YARD	4		Total none this dr	FA	10,500.00	.00	.00		<input type="checkbox"/>

Figure 71- Progress overview discount entry

The column Exclude Disc. Is an indicator to exclude a task to has discount from its parental level eg. Job level discount or Overall Discount.

- *Add Overall Discount on Progress Overview header.
- *Add Job level discount on Details > job group header.
- *Actual discount fields only can change during in progress.
- *Actual discount will be overwritten by zero if user enter Actual amount manually.(Configure setting to mandatory enter comment)
- *Add info of Quoted Discount to Progress Overview.

Formula:

$$\text{Actual Amount} = \text{Budget} - \text{Actual Discount}$$

(4.4)

(Calculation of actual amount takes place when task is completed.)

E. Project Follow-up

CR5603 – Option Flag once reporting JOBS for the next DD.

Description: Some Jobs during Dry Docking are open for readings (clearances) and found in good condition. But remarks are added to schedule for the next Dry-docking. The system should have an option before or after closing a Job to Flag with remarks to be viewed/executed in the next Dry-Docking. In the future as you create a new specification (and normal super copy from previous) the same job will be flagged as to be review since there’s remarks from previous docking. Jobs NOT TASKS.

1. To create Tick box if job will be postpone for next DD
2. When creating new Project, there will be a prompt message to include all Postpone job from certain projects.

The screenshot shows a software window titled 'Progress Overview'. It contains a table with columns: Task, Account Code, Budget (USD), Committed (USD), Actual Amount (USD), Budget (MYR), Committed (MYR), Actual Amount (MYR), Task Status, %, and Comments. The table lists various tasks such as 'Fabrication of M...', 'Electrician Assist...', 'Filter assistance...', 'Cabling from fore...', 'Fire detectors ins...', 'Test in operation', 'Remove insulation', and 'Pipes renewal'. Each task row includes numerical values for budget and actual amounts in both USD and MYR, along with a task status and a percentage completion. A 'Comments' column contains checkboxes, some of which are checked, indicating jobs to be flagged for the next dry dock.

Task	Account Code	Budget (USD)	Committed (USD)	Actual Amount (USD)	Budget (MYR)	Committed (MYR)	Actual Amount (MYR)	Task Status	%	Comments
		7,837.50	0.00	5,437.50	5,437.50	0.00	5,437.50		(100)	<input checked="" type="checkbox"/>
		7,837.50	0.00	5,437.50	5,437.50	0.00	5,437.50		(100)	<input checked="" type="checkbox"/>
Fabrication of M...		3,190.00	.00	1,590.00	1,590.00	.00	1,590.00	Completed	100	0
Fabrication of IO...		480.00	.00	480.00	480.00	.00	480.00	Completed	100	0
Electrician Assist...		900.00	.00	900.00	900.00	.00	900.00	Completed	100	0
Instrumentation ...		1,587.50	.00	787.50	787.50	.00	787.50	Completed	100	0
Filter assistance ...		1,680.00	.00	1,680.00	1,680.00	.00	1,680.00	Completed	100	0
		37,946.50	3,572.55	17,143.50	27,946.50	3,572.55	17,143.50		(74)	<input checked="" type="checkbox"/>
		10,025.00	0.00	4,575.00	5,025.00	0.00	4,575.00		(57)	<input checked="" type="checkbox"/>
Cabling from fore...		8,675.00	.00	3,675.00	3,675.00	.00	3,675.00	Completed	100	0
Fire detectors ins...		900.00	.00	900.00	900.00	.00	900.00	Completed	100	0
Test in operation		450.00	.00	.00	450.00	.00	.00	In Progress		0
		21,081.50	3,572.55	11,878.50	16,081.50	3,572.55	11,878.50		(96)	<input checked="" type="checkbox"/>
Remove insulation		.00	.00	.00	.00	.00	.00	Completed	100	0
Pipes renewal		16,878.50	.00	11,878.50	11,878.50	.00	11,878.50	Completed	100	0

Figure 72 - Flag Jobs for next DD

CR5606 – Project Cost Control – Main Screen

Description: One of Main Functions from Project Controller and Project Manager is to track Project Cost Control. On the Main BASSnet Project screen it should have a link to Project Cost Control as per figure 73:

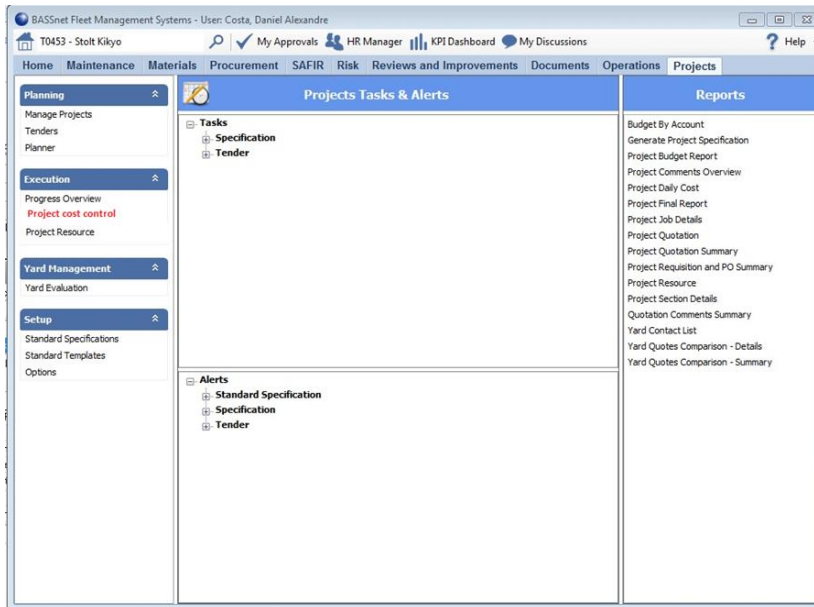


Figure 73 - Project cost control link

CR5608 – Project Budget Control – Screen

Description: The actual Cost Control screen is not given proper project cost overview, below we propose new screen (figure 74). Project Cost Control should be shown just in BASE CURRENCY. The Currency Exchange rate for YARD Cost should be the Edge currency exchange rate. In case YARD required advance Payment the same need to show in Invoice to date as an extra line before the Total. To Date should allow the Project manager to choose a different date/time and view the

cost control until that date. Total revised Budget need to bring all amounts from add/remove JOBS/TASKS

CODE	DESCRIPTION	Cost Type	Initial BUDGET	To Date	To Completion	Invoiced TO DATE	TOTAL REVISED BUDGET	VARIANCE	FX (G/L)
0101	Job #1		1,000.00	898.00	202.00	200.00	1,100.00	97.00	3.00
		YARD	900.00	800.00	200.00	-	1,000.00	100.00	
		OWN	100.00	98.00	-	95.00	100.00	(3.00)	3.00
0102	Job #2		-	-	-	-	-	-	
0101	Job #3		-	-	-	-	-	-	
0103	Job #4		-	-	-	-	-	-	
Section 020			1,000.00	898.00	202.00	200.00	1,100.00	97.00	3.00

Figure 74 - Budget/Cost control screen to be

- Initial Budget – Initial Budget Approved
- To Date – All PO’s (Status approved in Base Currency) Including Project Budget Yard PO.
- To Completion – Total Revised Budget – To Date
- Invoiced TO DATE – All invoices Approved in Base Currency
- Total Revised Budget – Budget Changes approved as per budget variances (ADD/Cancel JOBS/TASKS)
- Variance – Total Revised Budget – Initial Budget
- FX (G/L) – Gain/Loss due to currency Exchange Rate

CR5609 – Project Control – PO/Invoices TAB

Description: Now requested to have the opportunity (CR) to link the PO’s to Job Level in order to revert Budget cost the Screen should change. It need to show also if the PO it’s still in Project/Section. It should also listed by Job Level. Yard PO need also to be show.

Section ID	PO ID	Ver.	Name	PO Amount	PO Status	Total Inv. Amount (...)	Inv. Status
Project: ODD1126				(20,262.91)		(20,262.91)	
Type: Consumables				(20,262.91)		(20,262.91)	
210							
Job: 210.1	554229	1	ODD1126.17803.210-FREE ITEM - Swivel pie	20,262.91	Fully Received	20,262.91	Paid

Figure 75 - Requisition & PO Linked

CR5610 – Same Project Cost Control – Date/Time (Time Stamp)

Description: There's the need for the Project Manager to save the cost control for a period in order to build cost control figures over time. The Project Manager review the Project Cost Control and choose to Save the report. The super review and Save the report, the system should be save the figures amount and auto assign date/time. The Project Manager should be able to save just one per day, in case in the same day the project manager push the save twice, the system should alert that already have today's report if he would like to replace. The project Manager under the Project control screen should be able to choose one of the previews from previous day's. The saved reports cannot be Changed, but should have an option to remove report. A Report should be built to show all reports saved side to side

CR5611 – Yard PO# Advance payment and total payment.

Description: System issue a Project PO within Sections amount this PO will be have several Payments terms. The Yard is award as per the quoted Sections/Jobs/Tasks, and for payment request: Advance Payment of 20%; Ship Deliver 70%; 30 day's final invoice for the remain 10%; Yard terms: Advance Payment 10%; Remain Payment with ship deliver after the Yard discussion and

agreement (90%) as final but with a discount of \$100,000 of \$1,670,000. No distinguish in particular section/Job

The screenshot shows an invoice form with the following details:

- Vessel: AFFI - MT Asian Feeder
- Supplier (Pay To): COS225 (COSMOS) AGENCIA MARITIMA, S.A.
- Finance Account: 610600
- Bank Account No: [Empty]
- Voucher No: 201006
- Invoice No: AD-1
- Arrival Date: 18.02.2016
- Invoice Date: 18.02.2016
- Due Date: 18.02.2016
- Amount: 90,00
- Currency: USD U.S. Dollar
- Rate: 1,0000000000
- Amount Base: 90,00 (USD)
- Advance Payment:

Below the form is a table with the following data:

* Vessel	Description	* Account No.	Account Description	Estimate Amount	PO Currency	Amount Currency	Currency	Rate	Invoice Amount	VAT	Vat Amount	PO No.	PO V...	Supplier (Ord
AFFI	Advance Invoice	100150	T/C Hire - IC	,00	USD				90,00			16-0006	1	COS225

Figure 77 - Advance Payment

The screenshot shows an invoice form with the following details:

- Invoice No: IN-100
- Arrival Date: 18.02.2016
- Invoice Date: 18.02.2016
- Due Date: 18.02.2016
- Amount: 810,00
- Currency: USD U.S. Dollar
- Rate: 1,0000000000
- Amount Base: 810,00 (USD)
- Final Invoice:

Below the form is a table with the following data:

* Vessel	Description	* Account No.	Account Description	Estimate Amount	PO Currency	Invoice Amount	Advanced Amount	Amount Currency	Currency	Rate	Estimate R
AFFI	General Services	100100	T/C Hire	100,00	USD	100,00	90,00				
AFFI	Docking Costs	100100	T/C Hire	100,00	USD	100,00	,00				
AFFI	Painting	100100	T/C Hire	100,00	USD	100,00	,00				
AFFI	Tailshaft, Intern...	100100	T/C Hire	100,00	USD	100,00	,00				
AFFI	Rudder	100100	T/C Hire	100,00	USD	100,00	,00				
AFFI	Sea Chests & Se...	100100	T/C Hire	100,00	USD	100,00	,00				
AFFI	Sacrificial Anodes	100100	T/C Hire	100,00	USD	100,00	,00				
AFFI	Anchor, Anchor ...	100100	T/C Hire	100,00	USD	100,00	,00				

Figure 76 - Invoice info in PO record

CR5612 – Yard Invoice

Description: Base on Stolt/Yard agreement the Payment may have several scenarios/payments for long than a Year. Some Yards the invoice is sent with Local Currency, that need to be converted in to base currency. In previous CR##### was required that once creating the Project Budget PO the currency exchange rate to be used should be the set Project Currency Exchange rate (Not the Daily

exchange rate) as regular PO's and should use always the used. But once the PO is invoiced we should be able to manually edge the currency Exchange rate due to bulk currency buy. E.g. Yard currency is SGD and ship base currency is USD. We will put a change request to BASSnet Projects where the Currency Exchange rate will be set and fix per project. On the Yard PO creation would like the PO to use the same (Project currency exchange rate) in the creation. Normally on DD projects (and not just) the payments terms can lead to several payments during long period of time. Is also expensive bills. Pick-up the e.g. most off the cases we will edge currency exchange rate by buying SGD so the exchange rate will be calculated/set for these payment amounts. It should be possible to Manual set for this type of payments to manual set the currency exchange rate. During all period and base on Budgeting Project Exchange rate set the deviation (gain/Loss) can be significant, having the PO with fix project exchange rate and invoice with edge exchange currency exchange rate is there a way to get the amount (-/+)

Invoice No	Invoice Status	Invoice Date	Total Invoice Amount	Advance Amt	PO Invoice Amount	Credit Amt
AD-1	Verification	18.02.2016	USD 90,00	USD 90,00		,00
IN-100	Verification	18.02.2016	USD 810,00	USD -90,00		900,00
			900,00		,00	900,00

Figure 78 - Final invoice

CR5613 – Project PO – Change PO's receipts and Amount.

Description: The PO receipt can be done just on PO not on Project Overview, and can happen due to late report from Project Manager to report actuals in the PO lines. Receive the PO should not require any other approval if updated and in Sync with Project Overview Report. The QTY request and since is per section cannot be changed. The Project Manager can change the Unit Price to match the Invoice, if so in PO will need always to be submitted for approval cycle.

Conclusions & Results

To implement all these changes, a waterfall chronological methodology was adopted, in witch, Stolt & BASSnet team, follow the Waterfall methodology process [1],[2] :

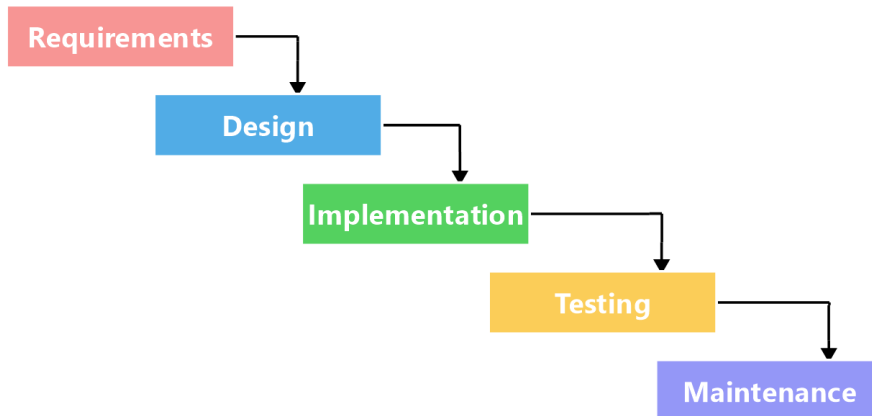


Figure 79 - Waterfall Methodology

The project itself, was successful, although we did not add anything to the Dry Dock process itself, we only create a control tool for improved Project Management Activities, cost control during Vessel Dry docks and technical superintendent time management.

With the development of such improvement on this tool/module, Stolt had a very good revenue. Stolt invested USD150k and just after 2 Vessels Dry-dock, (after the module was implemented, end-to-end process), the revenue of approximately USD400k was achieved. Meaning just with 2 Vessels Dry-dock, Stolt was able to pay off the development of this module improvement.

$$ROI \text{ (payback period)} = \frac{150k}{400k} * 12 = 4.5 \text{ months}$$

No. Dry Docks 2019



Fleet	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	DD Total
S.M.Americas				1	2			2	3	1			3	12
S.M.Inter-European		1	1		1	1	1	1	1	1				8
S.M.Europe	1		1	2	2	2		3		3			1	15
S.M.Asia					1							1		2
DD Great total	1	1	2	3	6	3	1	6	4	5	0	1	4	37

Table 4 - Number of Stolt Vessels DD in 2019

Once this tool was active, other processes improved were implemented, and this did lead that other types of working methodologies being adopted, (Stolt Business). In one of those cases, Stolt had total revenue of 1M€ in one year for the total fleet.

The development of the BASSnet Project module was made to improve and stream the DD Process and any other ship retrofit projects. The Project Business Case had quantitative and qualitative benefits:

Qualitative:

- Improve Project Financial Controls - Integrating the Project Module with the Procurement Module, including invoicing to pay;
- Process Standardization - Standard company DD Jobs Specification;
- Process transparency for all stakeholders;
- Improve inter-department collaboration;
- Improve Jobs cost and time estimate based on jobs/yard history.

Quantitative:

- Substantial time-saving in initial DD Job specification creation, from six hours to 1 hour from the Superintendent;
- Substantial time-saving in adding extra ship-reported technical defects schedule ship immobilization from 16 hours to 2 hours from Superintendent;
- Easy schedule regular ship PMS jobs to DD Specification, 8 hours to 30 minutes;
- Quotation comparison report (Project Budget approval). This Report includes Jobs and total off-hire cost estimate, from 24 Hours to 1 Hour;
- Comprehensive cost overview, showing Project BUDGET, Project Cost Estimate to-date, Project Cost Committed to-date, and Project Actuals. It was not feasible on a to-date basis

but required on the project closing. That Report usually takes the Superintendent one month to review all notes taken and combine all other Owning costs not reflected on the Yard Invoice. With the newly developed functionalities and processes integration, the Report is auto-updated. It is updated as cost commitments are done, e.g., completed jobs, service POs with goods received and invoice, and other owning costs such as Spare parts or consumables. The savings were reducing superintendent time spent and a reduction in the company accounting team from 3 to 1;

- On average, the Superintendent did increase the number of managed ships from 3 to 4 assets as estimated.

From a project management and business analysis perspective this was a very interesting project.

With this project we were able to prove how strategic and important, these two disciplines are becoming for many companies.

In the Project Management part (not related with the Dry Dock project itself, but from all the phases throughout the implementation software changes), We did focus on the creation of the product, service, and result, in order to meet the main objectives [1],[2],[3].

On the other hand, in the Business Analysis part we aim on understanding the needs of the business stakeholders and then at the definition of the characteristics of the solution to meeting those needs [1].

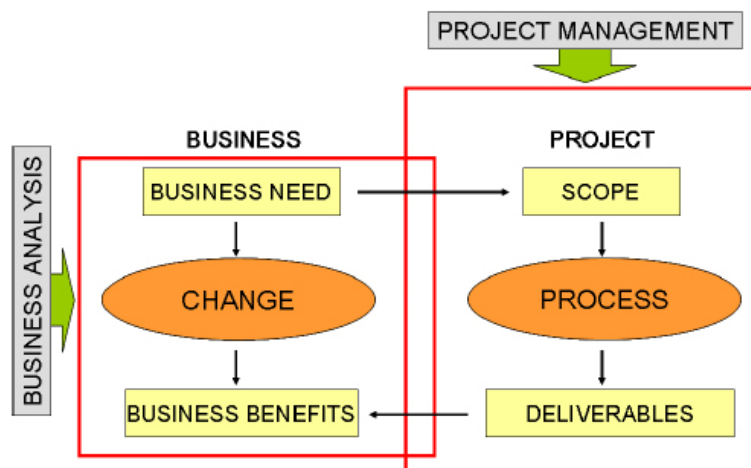


Figure 80 - Analysis Flow

More and more, good project management it's indispensable for business results. Project Management and Business Analysis must be integrated into a "dynamic duo."

The Business Analysis must work as a liaison among stakeholders to understand the structure, policies, and operations of an organization, and to recommend solutions that enable the organization to achieve its goals [1]. These aspects are very useful for understanding and documenting the business needs at the beginning of the project, keeping the project linked to the business during its

execution, and assessing the performances of the implemented solution to catch the limits and the opportunities for creating business value [1],[2],[3] .

Project Management should be applied to project activities to meet the project requirements [3].

Through the integration of the two disciplines of Project Management and Business Analysis, we were able to achieve a very good project performance, both from the standpoint of the realization of project deliverables, as well as from the creation of business value [1],[2],[3] .

This continuous research for new competences to create business value is the primary responsibility of every professional, and above all, Project Managers and Business Analysts[1],[2],[3] .

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