



Design. Build. Maintain. Connect.

Dashboards & Reporting for Shipbuilding

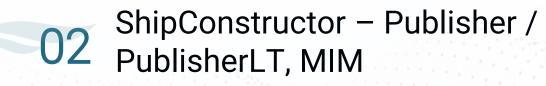
Ken LaPerle – PLM Specialist, Enterprise Solutions Team



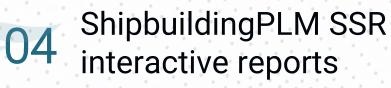
Dashboards & Reporting for Shipbuilding - Agenda

01 Primary Reporting capabilities









06 Close and Questions





Primary Reporting Capabilities

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PublisherLT		Power Bl		Sh	ShipbuildingPLM Reporting	
	WIP Detail Design Da	ata, E	ngineering Productivity		Complete Shipbuilding Lifecycle	
	ShipConstructor functionality to generate outputs from the database through Enterprise Platform		Microsoft Reporting solution that integrate with ShipConstructor database		Reporting of Product Data throughout the Shipbuilding Lifecycle (Initial, Functional, Detail)	
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Dashboards & Reporting for Shipbuilding 2. ShipConstructor – Publisher / PublisherLT

 SSI Enterprise Platform Publisher and PublisherLT may be used to generate custom ShipConstructor reports, to extract and export WIP data.

Loaded Project Items		Categories Shown	
Item Name	Item Type Enter Filter Text Pipe System Model Pipe System Model Planar Group Model Planar Group Model	Operations Enter Filter Text PDFs of Profile Plot Sheets PDFs of Profile Plot Sheets PDFs of Profile Plot Sheets PDFs of Profile Plot Sheets	Types Shown
Update drawings before performing operations			Planar Group Model

Dashboards & Reporting for Shipbuilding 2. ShipConstructor – MIM Reports

15-Aug-24 12:21 PN **PSV-001** Clear Slicers v1.3 \sim Spec \ System \ Branch Material Grade Nominal Size \sim PH \sim Part Type Drawing Assembly ΔII \sim ΔII VY 62 ··· ΔI ΔII \sim ΔII \sim ΔII Pipe HVAC No Spool Spooled Unspooled Pipe by Piece Type, Material Grade, Nom Size Selected Stocks Pipe Parts by Type, Material, Nominal Size, Stock Piece Type # Stocks # Parts Weight Length w/ Green Otv Stock Name Stock Description Avg Weight ЗK 🗆 Cap 23 1.136.45 3 PN1MPA\DN125 Marine stainless steel flange. 0.00 STEEL OT400-15 3 23 1,136.45 ⊡ 50 mm 271 L90-114x3-ASIS316L 4.23 10.04 90-degree standard long elbow III class 114x3 ⊞ 125 mm 185.76 90-degree standard long elbow III class 140x3 2.28 268 L90-140x3-ASIS316L 2K ⊡ 200 mm 15 940.65 86 L90-140x3-ASIS316L R=600 90-degree long elbow III class 140x3 1.89 1.5K Cross 0.00 2.23 13 L90-140x6.5-ASIS316L 90-degree standard long elbow III class 140x.. STEEL 0235-A 0.00 323 L90-168x3-ASIS316L 90-degree standard long elbow III class 168x3 4.23 ⊞ 150 mm 1 0.00 1K 3.16 88 | 90-168x3-ASIS316| R=750 90-degree long elbow III class 168x3 Elbow 51 1,456 7.863.60 3 J 90-168x3-ASIS316L Alternative ... 90-degree elbow III class 168x3 5.50 Stainless Steel 316L 14 1.185 128.00 20 | 90-168x8-ASIS316| 90-degree standard long elbow III class 168x8 3.98 🗄 65 mm 33.00 45 L90-219x3-ASIS316L 3.50 90-degree standard long elbow III class 219x3 🕀 80 mm 33 114.03 6 L90-219x9-ASIS316L 90-degree standard long elbow III class 219x9 3.24 271 146.03 ⊞ 100 mm 4.58 15 L90-273x3-ASIS316L 90-degree standard long elbow III class 273x3 ⊞ 125 mm 367 803.51 3 5.50 8 L90-273x3-ASIS316L Alternative .. 90-degree elbow III class 273x3 434 1.741.67 ⊕ 150 mm 4 6 L90-76x3-ASIS316L 90-degree standard long elbow III class 76x3 5.50 ⊞ 200 mm 2 51 177.01 3.46 33 L90-89x2-ASIS316L 90-degree standard long elbow III class 89x2 ⊞ 250 mm 2 23 112.75 2 (stainless steel) PN1MPA\DN200 Marine Flange stainless stee.. 11.20 □ STEEL 20 II 37 271 3,735,60 Pipe Length by Material Grade, Nom Size 1 * 0.08 Stainless steel pipe 219x9 14.72 . ∃ 50 mm 4 21 Bend Type
Bent
Straight 70 ** Marine seamless steel pipe Class III 168x9 30.76 14 12.84 🖽 65 mm 3 3 *** 10.67 ⊞ 80 mm 3 28 25.83 Marine seamless steel pipe Class III 60x13 57 **** Marine seamless steel pipe Class III 60x5.0 9.79 ⊞ 125 mm 76 303.59 12 ***** 6.50 ⊞ 150 mm 38 359.21 PN1MPA\DN150 Marine welded stainless ste. 4 ⊞ 200 mm 70 .022.95 15 ****** PN1MPA\DN250 Marine stainless steel flanges 10.94 1.5M ⊞ 250 mm - 4 68.27 PN1MPA\DN200 Marine stainless steel flanges 8 */* 8.53 598.42 🗉 300 mm 11 3 10025 Q11F-20T (G1) 0.00 ⊡ 450 mm 147.51 2.05 6 10040 GB2506-89 PN1MPA\DN40 Marine welded steel flange 1.0M .182.26 600 mm 2 8 1 10050 ASIS 316FL PN1.0MPA\DN50Marine stainless steel flange 9.46 Flange/Connector 74 2,989 16,130.23 PN1MPA\DN50 stainless steel loose sleeve to.. 0.00 8 10050 ASIS 316FLS Stainless Steel 316L 42 2.114 12,210,93 0.5M 6 10050 ASIS GB2506-89 PN1MPA\DN50 Marine stainless steel welded.. 2.42 ∃ 50 mm 4 16 26.89 1 10050 GB/T11694-94 PN1MPA\DN50 Marine Flange double-sided . 11.20 ⊞ 65 mm 3 13 119.30 PN1MPA\DN50 Marine welded steel flange 2.42 67 10050 GB2506-89 🗄 80 mm 2 56 75.22 0.0M 7 10050 HDJV17-00-2-OTON Marine-to-clamp check valve 12.20 ⊞ 100 mm 4 474 3.969.68 Stainless Steel STEEL 20 III 2 10050 HDMV81-00-1 (G2) 0.00 Total 316L 261 7,921 73,891.10 2,792,738 7,921 9.33 Profile Nests Model Completion Production Planning Production All Objects System Parts Out-of-Date Locks Plate Nests Accessories Penetrations Permissions

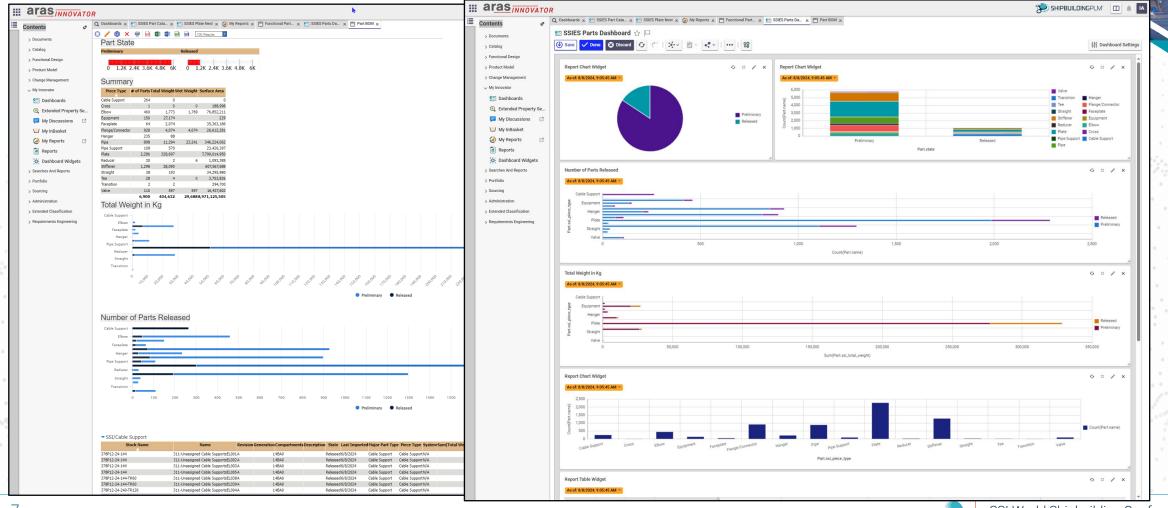
Marine Information Modeling (MIM) reports present Work In Progress (WIP) views of ShipConstructor data. Dashboards & Reporting for Shipbuilding 3. ShipConstructor MIM Reports vs ShipbuildingPLM Reports

- ShipConstructor Reports and ShipbuildingPLM Reports are complimentary.
- PowerBI Marine Information Model (MIM) reports provide oversight of Work In Progress (WIP) ShipConstructor projects.
- ShipbuildingPLM reports track the maturity of all Engineering product data as it evolves through shipbuilding lifecycles, as well as providing actionable insights into possible process bottlenecks.



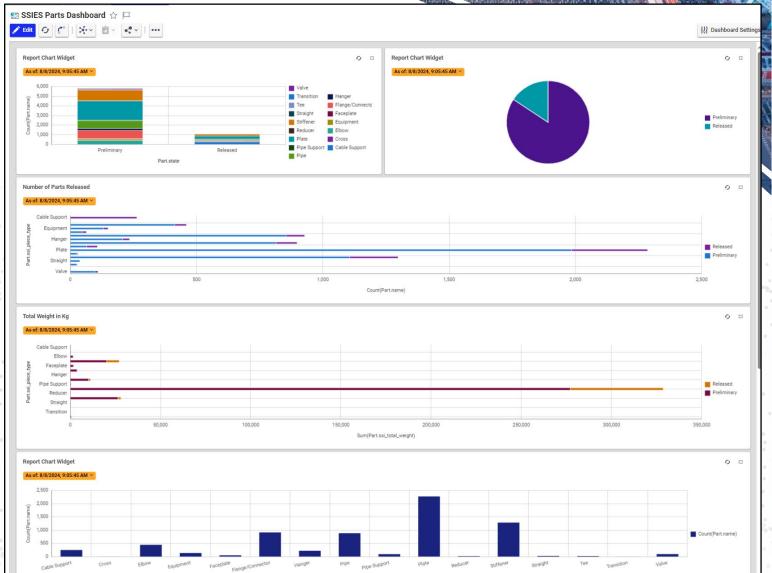
Dashboards & Reporting for Shipbuilding 4. ShipbuildingPLM Reports

- ShipbuildingPLM Reports can be generated using Self Service Reports
- or the new Aras Innovator Dashboard and Reports



Dashboards & Reporting for Shipbuilding 4. Shipbuilding PLM **Dashboard Reports**

- ShipbuildingPLM 2025 is built on the Aras Innovator R30 platform.
 - New Dashboarding and Reports feature allows flexible client definable reports that can then be reflected through analytical graphics.
 - Highly suited to Progress, Status and Oversight functions.



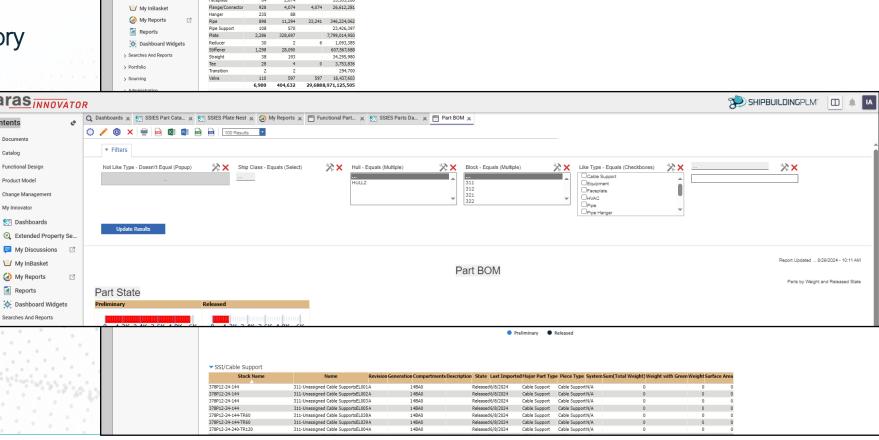


Dashboards & Reporting for Shipbuilding 4. ShipbuildingPLM **Self Service Reports – SSR**'s

III aras INNOVATOR

Contents

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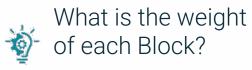
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SHIPBUILDINGPLM"

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Example Slides



Have the spools in this Block all been approved?



What is the current part breakdown in this Block?



What Functional Parts are in each SWBS and their current state?



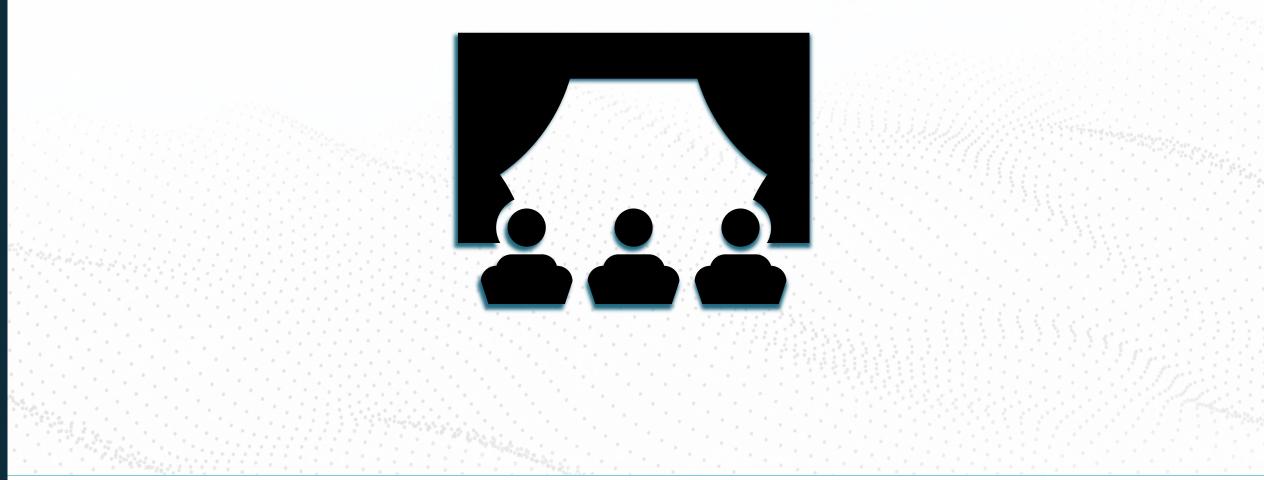


What is the state of my production drawings per Hull?

Gain oversight of your shipbuilding data



Dashboards & Reporting for Shipbuilding 5. ShipbuildingPLM Reports – Demo



Dashboards & Reporting for Shipbuilding Reporting from the Extended Digital Thread-

- Remember that Data does not become actionable Information until it is understood in the Context of Maturity, Time, Change, Relationships to other related Data, etc.
 - This is what we at SSI call the Digital Thread.
 - This is at the very core of ShipbuildingPLM.
 - Reports and Dashboards may be created to disclose those relationships, highlight relevant conditions and allow early recognition of issues that may affect productivity.



Thank you for your time – Questions?

