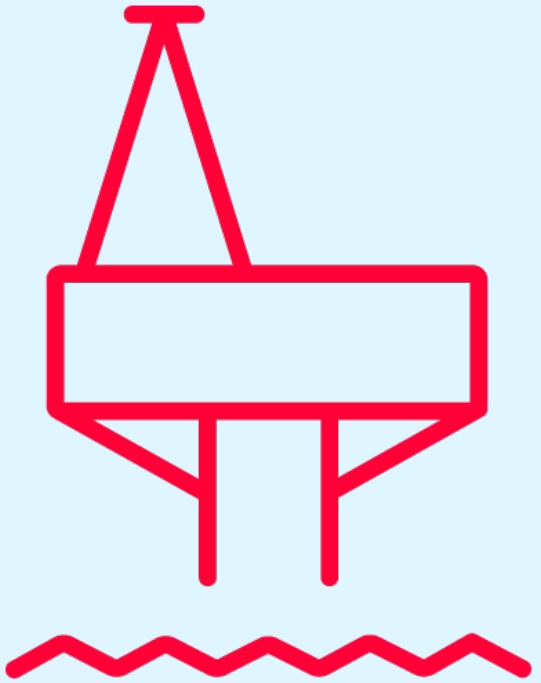
Building the digital asset

THTH Autumn webinar 2025



Bent S Lund

Team Lead LCI Solution

- 25 years in Equinor in Facility Life Cycle Information
  - LCI in projects
  - Requirements Management
  - Application Portfolio Development
- Located in Trondheim, Norway

Energy for people.
Progress for society.
Searching for better.

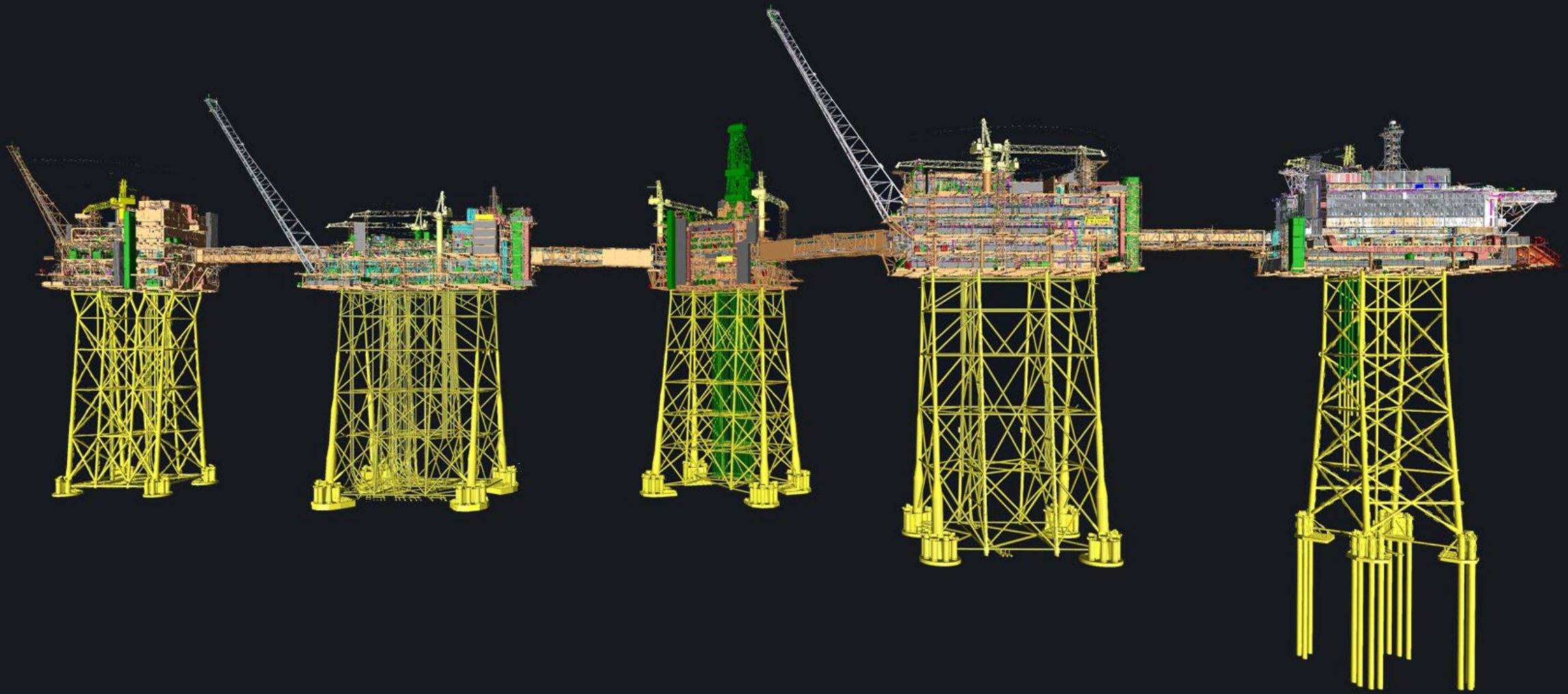
Equinor corporate presentation

Published: 01 APRIL 2025

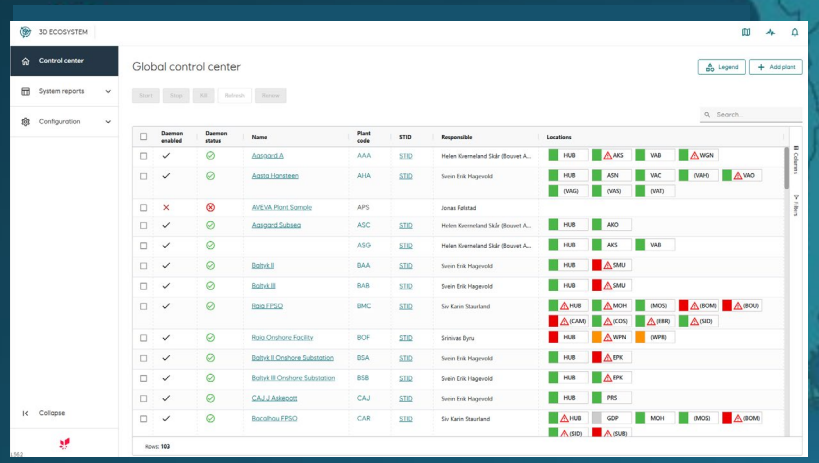
Our value chain is mainly focused from development and until processing

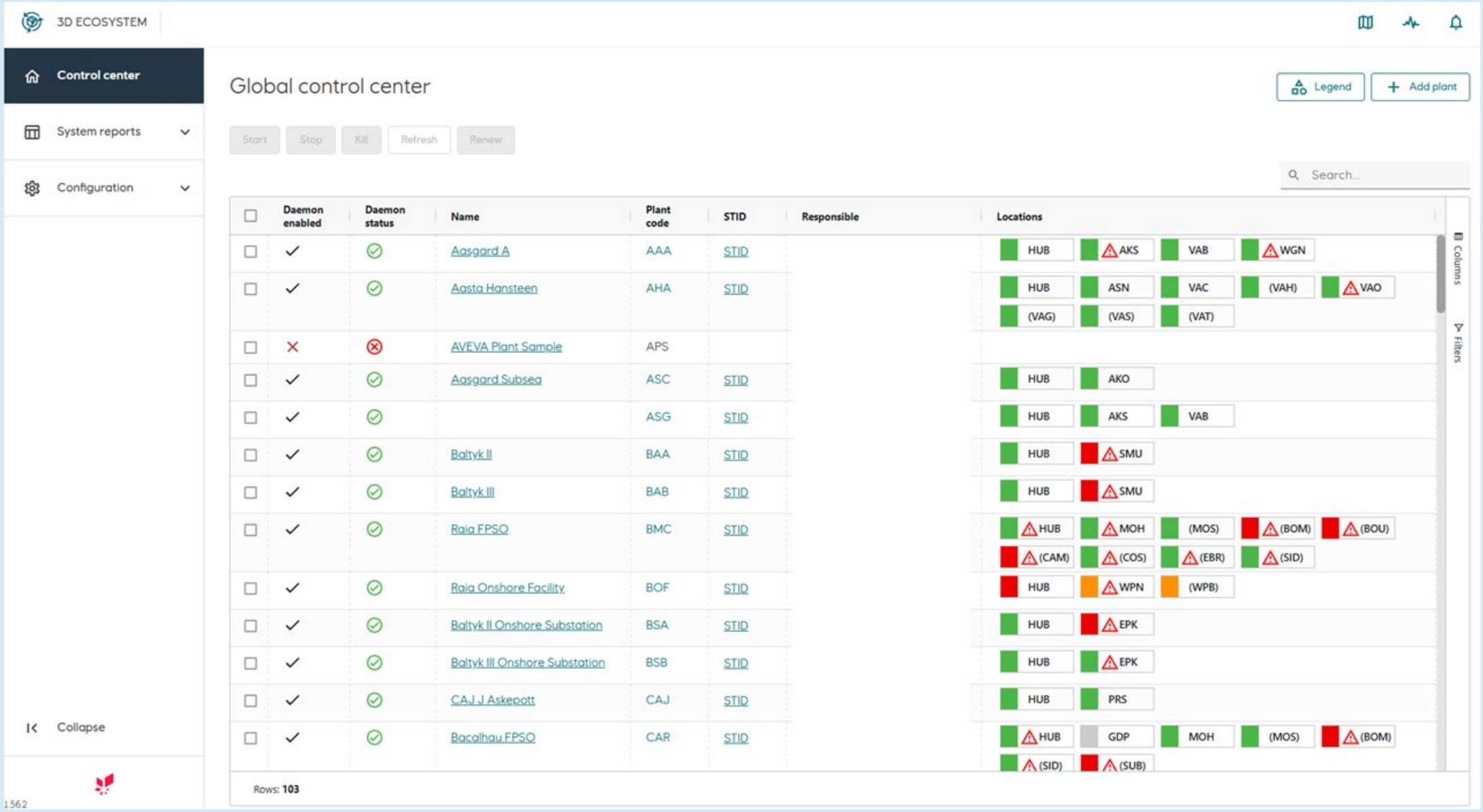
Exploration	Development and production	Transportation	Processing and refining	Marketing and trading
Offshore seismic and drilling	Offshore oil and gas	Pipelines	Refineries	Oil
Onshore seismic and drilling	Onshore oil and gas		Gas plants	Gas
	Offshore Wind		Energy storage	Electric
	Solar	Power stations		

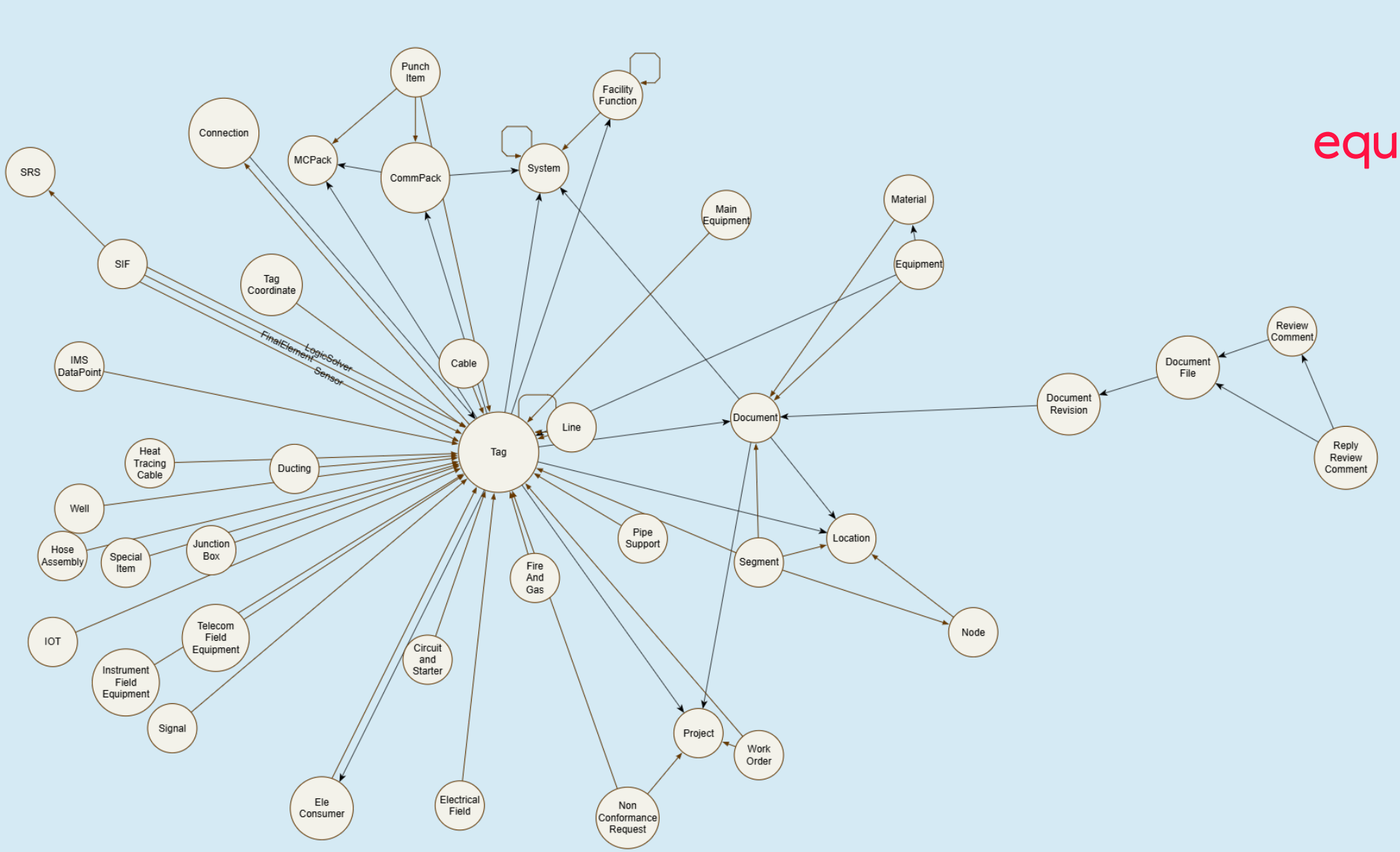

wood.
subsea 7
aibel
Dragados
KONGSBERG
KVÆRNER
SIEMENS
SAMSUNG
ABB
TechnipFMC
worley

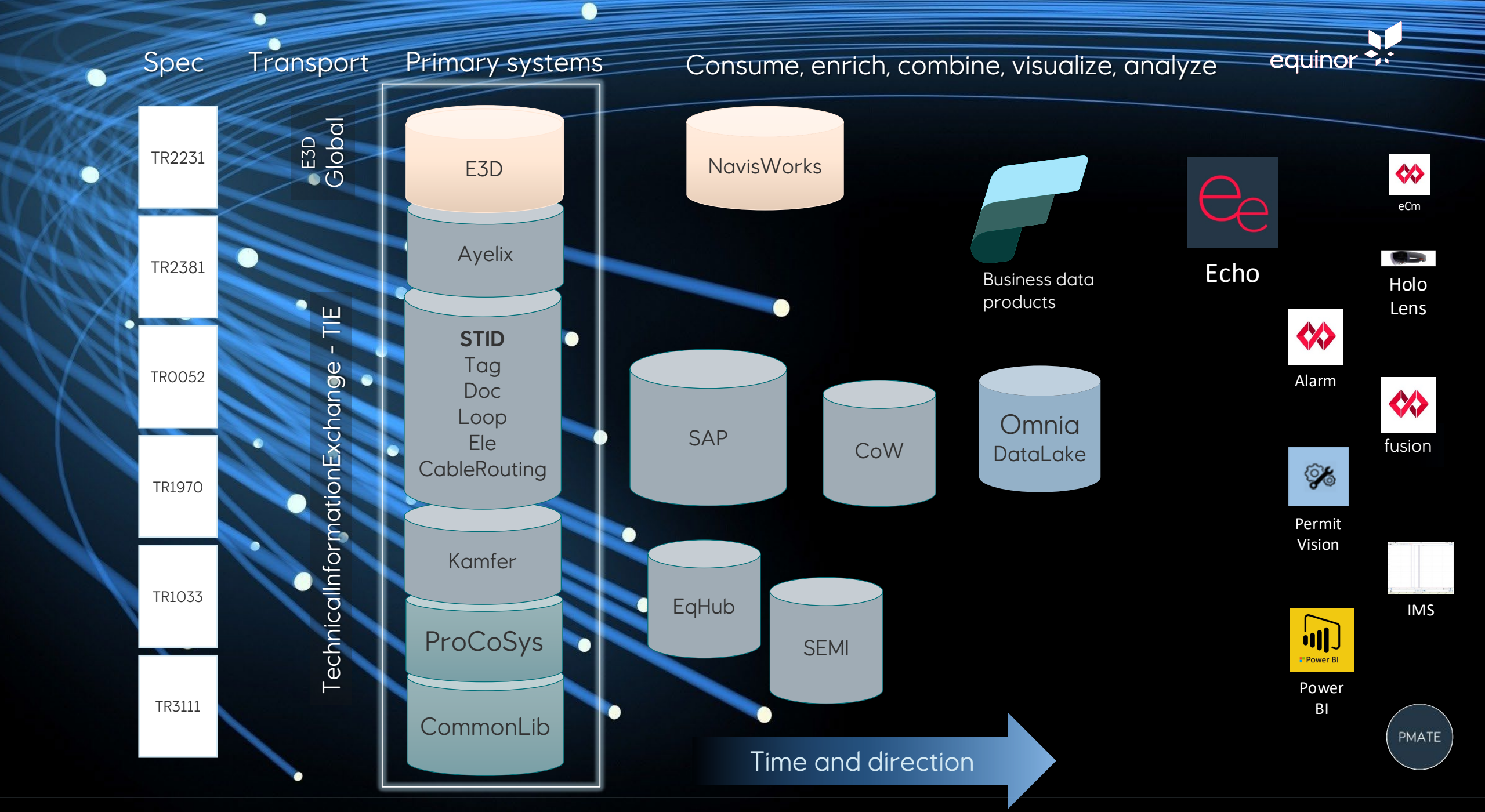


Equinor Global Master 3D models




3D ECOSYSTEM
Control center
System reports
Configuration
Collapse
Global control center
Legend
Add plant
Start
Stop
Kill
Refresh
Renew
Search...
Columns
Filters
Daemon enabled
Daemon status
Name
Plant code
STID
Responsible
Locations
Aasgard A AAA STID HUB AKS VAB WGN
Aasta Hansteen AHA STID HUB ASN VAC (VAH) VAO (VAG) (VAS) (VAT)
AVEVA Plant Sample APS
Aasgard Subsea ASC STID HUB AKO
ASG STID HUB AKS VAB
Baltyk II BAA STID HUB SMU
Baltyk III BAB STID HUB SMU
Raia FPSO BMC STID HUB MOH (MOS) (BOM) (BOU) (CAM) (COS) (EBR) (SID)
Raia Onshore Facility BOF STID HUB WPN (WPB)
Baltyk II Onshore Substation BSA STID HUB EPK
Baltyk III Onshore Substation BSB STID HUB EPK
CAJ J Askepott CAJ STID HUB PRS
Bacalhau FPSO CAR STID HUB GDP MOH (MOS) (BOM) (SID) (SUB)
Rows: 103
1562


Punch Item
Facility Function
Connection
MCPack
CommPack
System
SRS
Main Equipment
Material
SIF
Equipment
Tag Coordinate
LogicSolver
FinalElement
Sensor
Review Comment
IMS DataPoint
Cable
Document File
Document Revision
Line
Document
Heat Tracing Cable
Ducting
Tag
Reply Review Comment
Well
Pipe Support
Location
Hose Assembly
Special Item
Junction Box
Segment
Fire And Gas
IOT
Telecom Field Equipment
Node
Instrument Field Equipment
Circuit and Starter
Signal
Project
Work Order
Ele Consumer
Electrical Field
Non Conformance Request


Spec
Transport
Primary systems
Consume, enrich, combine, visualize, analyze
equinor
TR2231
TR2381
TR0052
TR1970
TR1033
TR3111
E3D Global
TechnicalInformationExchange - TIE
E3D
Ayelix
STID
Tag
Doc
Loop
Ele
CableRouting
Kamfer
ProCoSys
CommonLib
NavisWorks
SAP
CoW
EqHub
SEMI
Omnia DataLake
Business data products
Echo
eCm
Holo Lens
Alarm
fusion
Permit Vision
IMS
Power BI
Power BI
PMATE
Time and direction

TR2231	LCI requirements – 3D CAD model
TR2381	LCI Requirements
TR0052	Equinor Engineering Numbering System
TR1970	2D CAD standards and symbols
TR1033	Quality requirements for master data for technical objects in SAP
TR3111	LCI Requirements - Data Content and Transfer

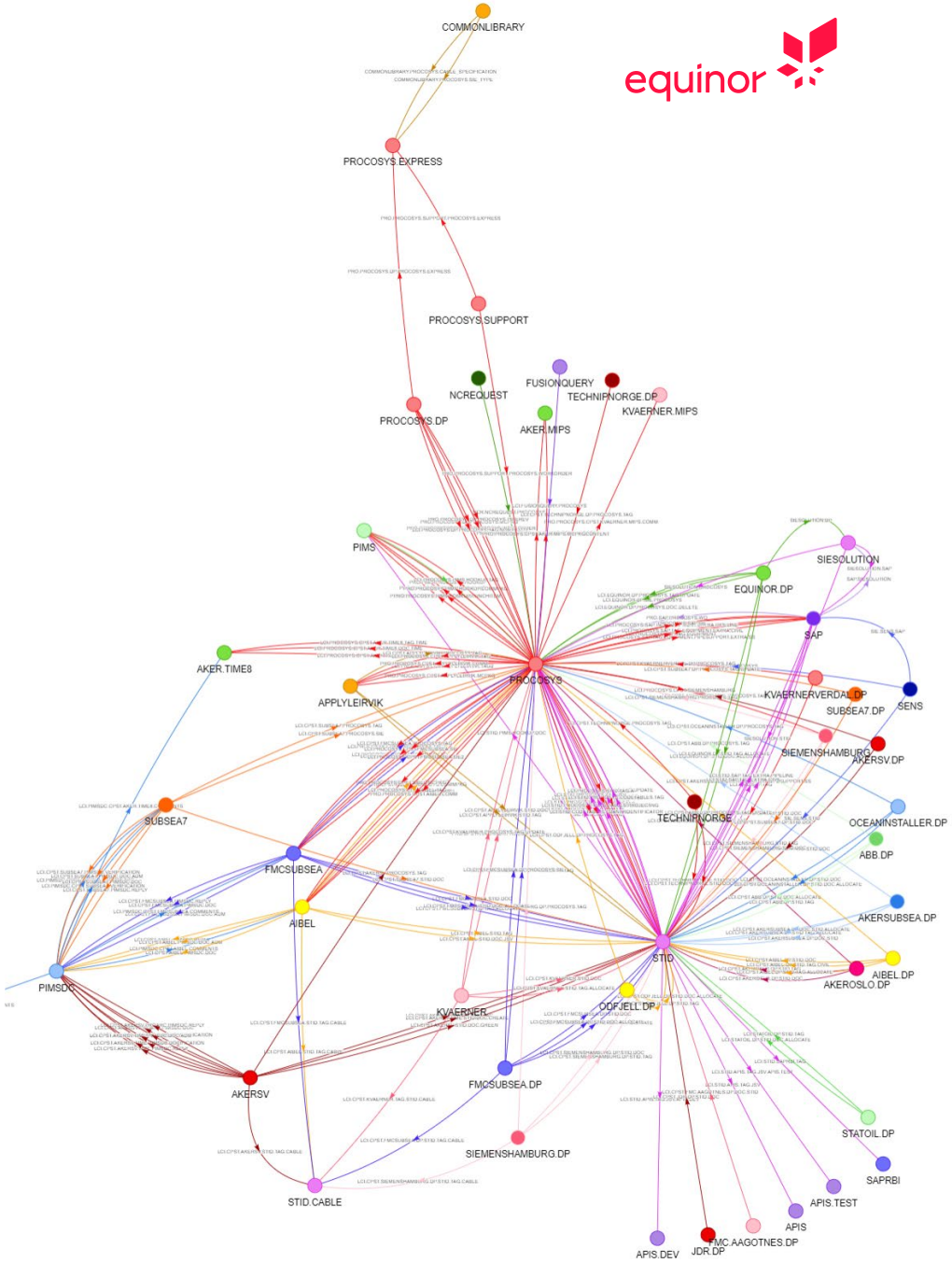
Time and direction

TIE – Technical Information Exchange

- Equinor developed system for exchange of technical information between external and internal systems
- Operational since 2012, major update 2022 «TIE2» with new technology
- Provides end-to-end integration with exchange of JSON/XML objects and file attachments.
- Provides Excel-templates and web portal for manual upload

Objects specified by:

TR3111 LCI Requirements - Data Content and Transfer (Tags, Documents, DocumentReview, TagDoc relations, TagTag relations)	ISO 15926-13 Integrated asset planning life-cycle (ILAP)	CommPkg , NonConformanceRequest, WorkPack



Filter

Group by ○ Application ◉ **Facility**

Facility: JSV

ObjectType

Classification

Source

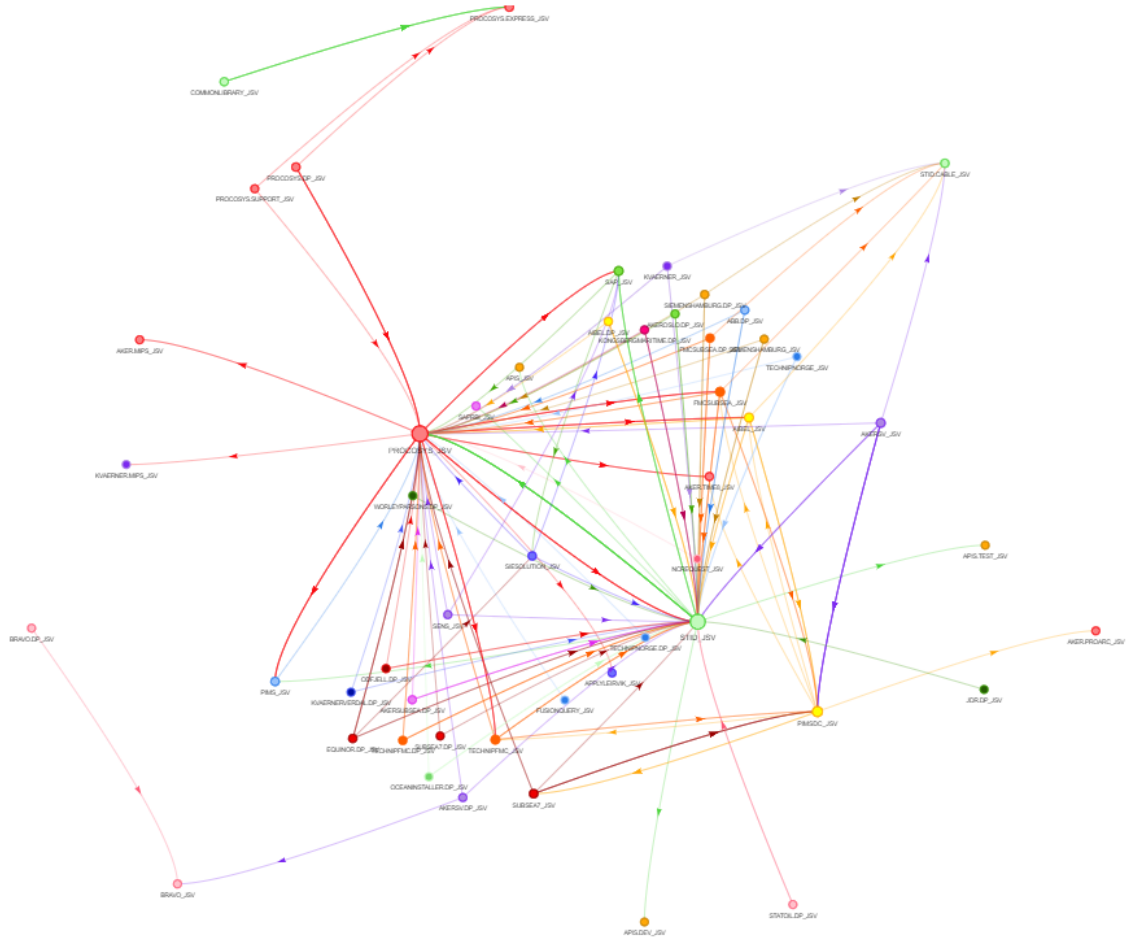
Target

Arrange in hierarchical fashion (if network contains less than 500 nodes)

Filter

Details

No subscriptions selected



LogViewer
DropPoint 1.0
DropPoint 1.5
Subscriptions
Code Tables
News
Learn More
About
Help

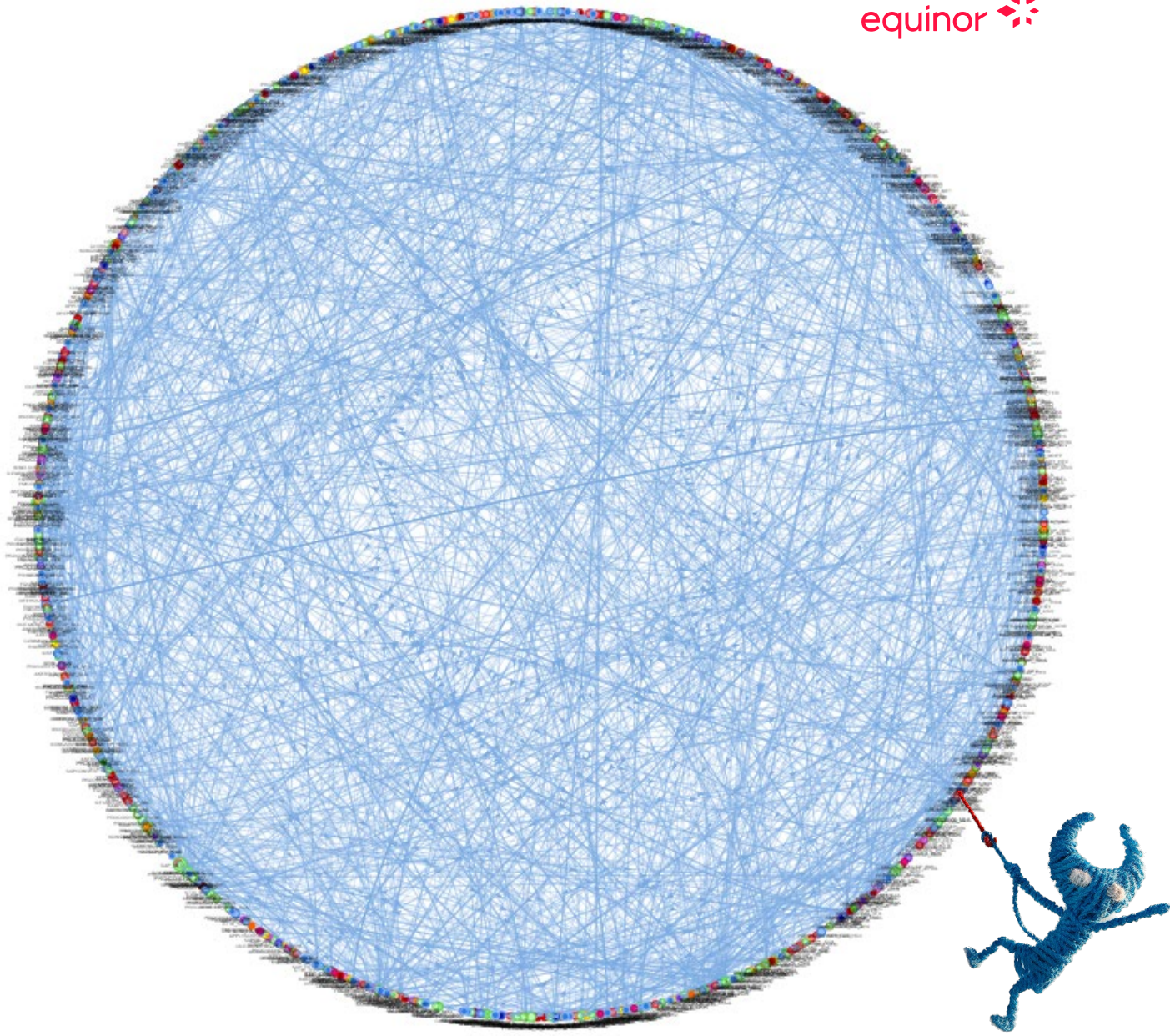
LogViewer Search

Retrieved 1000 messages with 853 receipts for a total of 1000 rows in 9678 ms *(click header to change sorting)*

Links	Class	Classification	Object Name	Facility	Project	Source Application	Message Timestamp	Behavior	Receipt Status	Receipt TimeStamp
	CABLEROUTING	CABLE	11IB005-G01	JSV	L.O265C.001	PROCOSYS	13 Jun 2025 14:26:46	Update	Failed	13 Jun 2025 14:28:10
	CABLEROUTING	CABLE	302A1-JB001-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:27	Update	Successful	1 Aug 2025 14:17:50
	CABLEROUTING	CABLE	302A1-XT001-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:24	Update	Successful	1 Aug 2025 14:17:44
	CABLEROUTING	CABLE	302A1-XT002-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:25	Update	Successful	1 Aug 2025 14:17:47
	CABLEROUTING	CABLE	302A1-XT003-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:28	Update	Successful	1 Aug 2025 14:17:52
	CABLEROUTING	CABLE	302A1-XT004-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:29	Update	Successful	1 Aug 2025 14:17:54
	CABLEROUTING	CABLE	303A1-XT001-C01	JSV	4590385976	PROCOSYS	5 Aug 2025 07:22:41	Update	Successful	5 Aug 2025 07:26:12
	CABLEROUTING	CABLE	303A1-XT002-C01	JSV	4590385976	PROCOSYS	5 Aug 2025 07:22:42	Update	Successful	5 Aug 2025 07:26:13
	CABLEROUTING	CABLE	311A1-EX002G-P01	JSV	M.O265C.22.A.00...	PROCOSYS	25 Jun 2025 12:31:18	Update		Invalid date
	CABLEROUTING	CABLE	311A1-EX002H-P01	JSV	M.O265C.22.A.00...	PROCOSYS	25 Jun 2025 12:31:19	Update	Successful	25 Jun 2025 12:32:01
	CABLEROUTING	CABLE	311C1-JB001-F05	JSV	T.O265C.DG.00119	PROCOSYS	17 Jul 2025 06:55:18	Update	Failed	17 Jul 2025 06:56:05
	CABLEROUTING	CABLE	311D1-IB001-C01	JSV	T.O265C.DG.00119	PROCOSYS	17 Jul 2025 06:57:17	Update	Successful	17 Jul 2025 06:58:14
	CABLEROUTING	CABLE	311D1-IB002-C01	JSV	T.O265C.DG.00119	PROCOSYS	17 Jul 2025 06:57:18	Update	Successful	17 Jul 2025 06:58:15

TIE endpoints

- 150 external and internal application endpoints
- 1092 subscriptions
- Average of 250.000 messages/day
- Rule based processing of messages

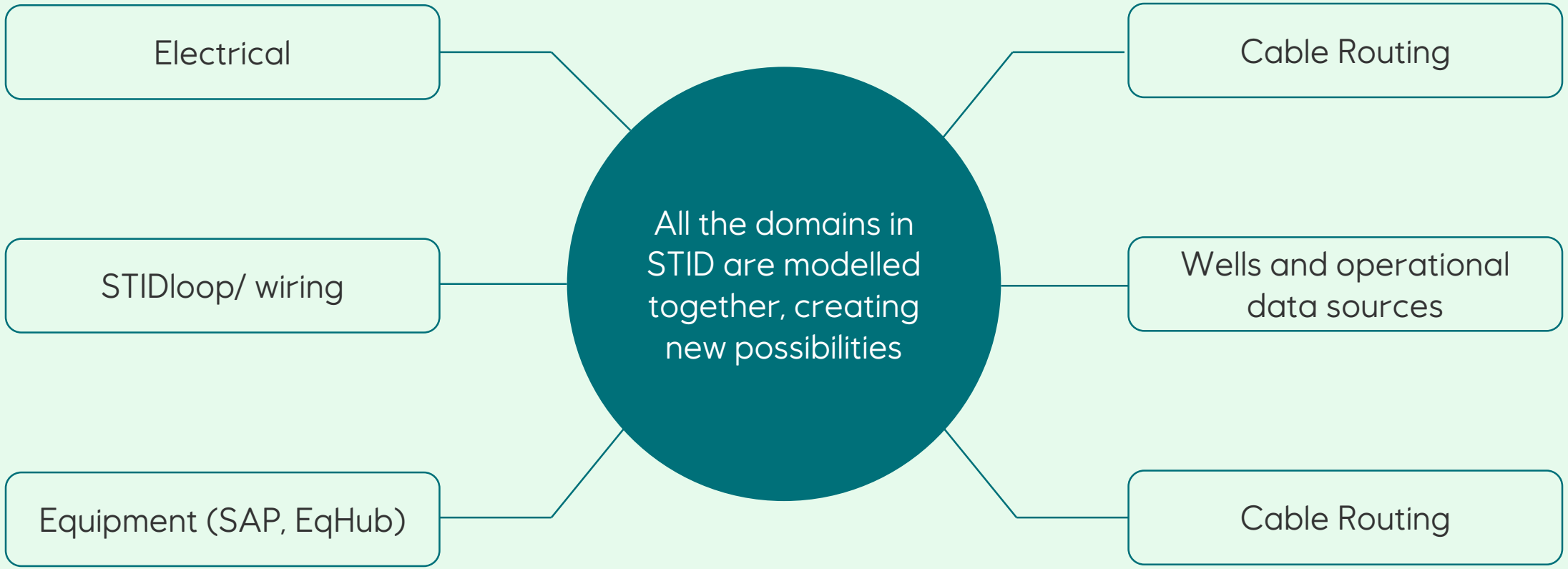


Agenda

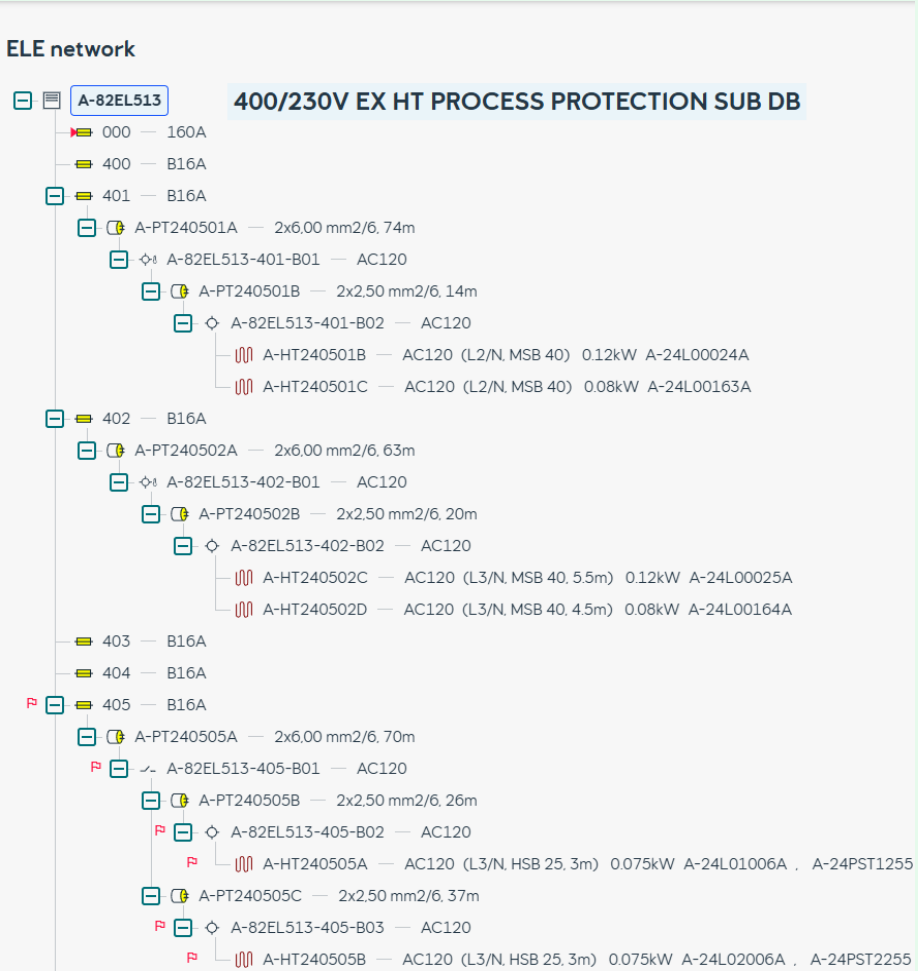
Part 1 — Building the digital asset

Part 2 — Detailed examples in STID (Technical Information & Documentation)

Detailed examples in STID (Technical Information & Documentation)



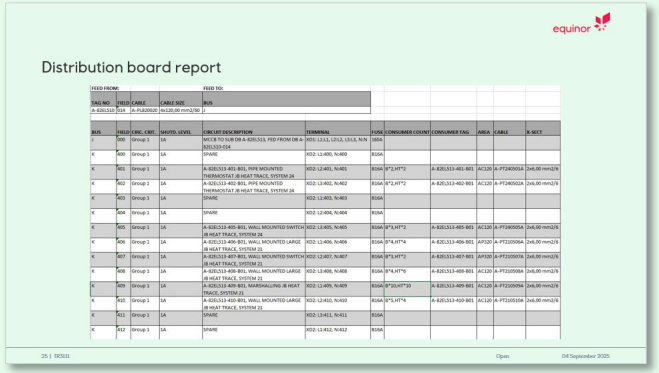
There is a possibility to identify and review the data source information



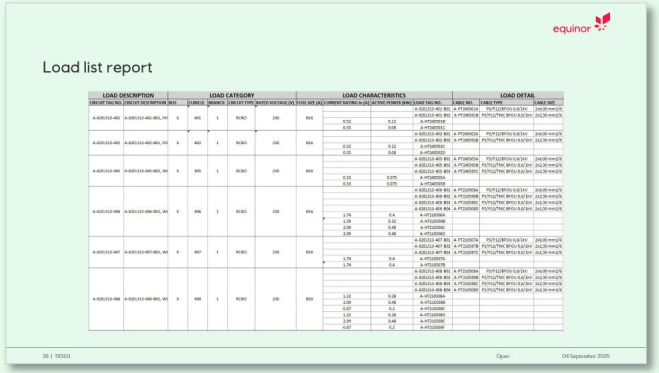
405	Feeder	In Use
Circuit tag	A-82EL513-405	
Description	A-82EL513-405-B01, WALL MOUNTED SWITCH JB HEAT TRACE, SYSTEM 24	
Busbar	K	
Voltage	230V	
Type	RCBO RCBO	
Branch	XD2	
Phases	L3: 405 N: 405	
Circuit criticality	Group 1 & High (from HT)	
Fuse size	B16A (In)	
Rated Voltage	230V (Un)	
Shutdown Level	1A	
Measured load	0.59A	
Calculated load	0.66A	

There are several different report to be extracted from the data sources

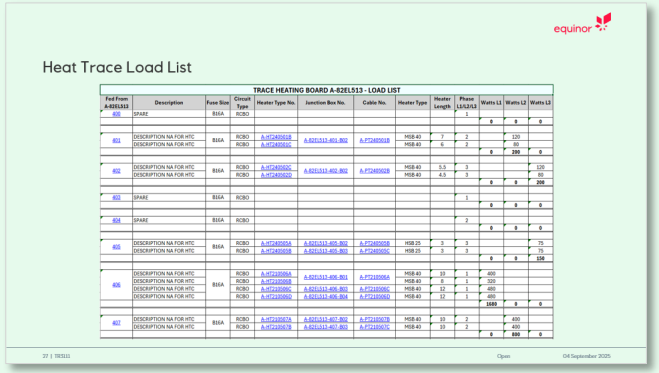
Distribution Board Report


Distribution board report

Load List Report


Load list report

Heat Trace Load List


Heat Trace Load List

Distribution board report

FEED FROM:				FEED TO:
TAG NO	FIELD	CABLE	CABLE SIZE	BUS
A-82EL510	014	A-PL820020	4x120,00 mm2/60	J

BUS	FIELD	CIRC. CRIT.	SHUTD. LEVEL	CIRCUIT DESCRIPTION	TERMINAL	FUSE	CONSUMER COUNT	CONSUMER TAG	AREA	CABLE	X-SECT
J	000	Group 1	1A	MCCB TO SUB DB A-82EL513, FED FROM DB A-82EL510-014	XD1: L1:L1, L2:L2, L3:L3, N:N	160A					
K	400	Group 1	1A	SPARE	XD2: L1:400, N:400	B16A					
K	401	Group 1	1A	A-82EL513-401-B01, PIPE MOUNTED THERMOSTAT JB HEAT TRACE, SYSTEM 24	XD2: L2:401, N:401	B16A	B*2,HT*2	A-82EL513-401-B01	AC120	A-PT240501A	2x6,00 mm2/6
K	402	Group 1	1A	A-82EL513-402-B01, PIPE MOUNTED THERMOSTAT JB HEAT TRACE, SYSTEM 24	XD2: L3:402, N:402	B16A	B*2,HT*2	A-82EL513-402-B01	AC120	A-PT240502A	2x6,00 mm2/6
K	403	Group 1	1A	SPARE	XD2: L1:403, N:403	B16A					
K	404	Group 1	1A	SPARE	XD2: L2:404, N:404	B16A					
K	405	Group 1	1A	A-82EL513-405-B01, WALL MOUNTED SWITCH JB HEAT TRACE, SYSTEM 24	XD2: L3:405, N:405	B16A	B*3,HT*2	A-82EL513-405-B01	AC120	A-PT240505A	2x6,00 mm2/6
K	406	Group 1	1A	A-82EL513-406-B01, WALL MOUNTED LARGE JB HEAT TRACE, SYSTEM 21	XD2: L1:406, N:406	B16A	B*4,HT*4	A-82EL513-406-B01	AP320	A-PT210506A	2x6,00 mm2/6
K	407	Group 1	1A	A-82EL513-407-B01, WALL MOUNTED SWITCH JB HEAT TRACE, SYSTEM 21	XD2: L2:407, N:407	B16A	B*3,HT*2	A-82EL513-407-B01	AP320	A-PT210507A	2x6,00 mm2/6
K	408	Group 1	1A	A-82EL513-408-B01, WALL MOUNTED LARGE JB HEAT TRACE, SYSTEM 21	XD2: L3:408, N:408	B16A	B*4,HT*6	A-82EL513-408-B01	AC120	A-PT210508A	2x6,00 mm2/6
K	409	Group 1	1A	A-82EL513-409-B01, MARSHALLING JB HEAT TRACE, SYSTEM 21	XD2: L1:409, N:409	B16A	B*10,HT*10	A-82EL513-409-B01	AC120	A-PT210509A	2x6,00 mm2/6
K	410	Group 1	1A	A-82EL513-410-B01, WALL MOUNTED LARGE JB HEAT TRACE, SYSTEM 21	XD2: L2:410, N:410	B16A	B*5,HT*4	A-82EL513-410-B01	AC120	A-PT210510A	2x6,00 mm2/6
K	411	Group 1	1A	SPARE	XD2: L3:411, N:411	B16A					
K	412	Group 1	1A	SPARE	XD2: L1:412, N:412	B16A					

Load list report

LOAD DESCRIPTION		LOAD CATEGORY					LOAD CHARACTERISTICS				LOAD DETAIL		
CIRCUIT TAG NO.	CIRCUIT DESCRIPTION	BUS	CUBICLE	BRANCH	CIRCUIT TYPE	RATED VOLTAGE (V)	FUSE SIZE (A)	CURRENT RATING In (A)	ACTIVE POWER (kW)	LOAD TAG NO.	CABLE NO.	CABLE TYPE	CABLE SIZE
A-82EL513-401	A-82EL513-401-B01, PIF	K	401	1	RCBO	230	B16			A-82EL513-401-B01	A-PT240501A	P5/P12/BFOU 0,6/1kV	2x6,00 mm2/6
										A-82EL513-401-B02	A-PT240501B	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								0.52	0.12	A-HT240501B			
								0.35	0.08	A-HT240501C			
A-82EL513-402	A-82EL513-402-B01, PIF	K	402	1	RCBO	230	B16			A-82EL513-402-B01	A-PT240502A	P5/P12/BFOU 0,6/1kV	2x6,00 mm2/6
										A-82EL513-402-B02	A-PT240502B	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								0.52	0.12	A-HT240502C			
								0.35	0.08	A-HT240502D			
A-82EL513-405	A-82EL513-405-B01, WA	K	405	1	RCBO	230	B16			A-82EL513-405-B01	A-PT240505A	P5/P12/BFOU 0,6/1kV	2x6,00 mm2/6
										A-82EL513-405-B02	A-PT240505B	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
										A-82EL513-405-B03	A-PT240505C	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								0.33	0.075	A-HT240505A			
								0.33	0.075	A-HT240505B			
A-82EL513-406	A-82EL513-406-B01, WA	K	406	1	RCBO	230	B16			A-82EL513-406-B01	A-PT210506A	P5/P12/BFOU 0,6/1kV	2x6,00 mm2/6
										A-82EL513-406-B02	A-PT210506B	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
										A-82EL513-406-B03	A-PT210506C	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
										A-82EL513-406-B04	A-PT210506D	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								1.74	0.4	A-HT210506A			
								1.39	0.32	A-HT210506B			
								2.09	0.48	A-HT210506C			
								2.09	0.48	A-HT210506D			
A-82EL513-407	A-82EL513-407-B01, WA	K	407	1	RCBO	230	B16			A-82EL513-407-B01	A-PT210507A	P5/P12/BFOU 0,6/1kV	2x6,00 mm2/6
										A-82EL513-407-B02	A-PT210507B	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
										A-82EL513-407-B03	A-PT210507C	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								1.74	0.4	A-HT210507A			
								1.74	0.4	A-HT210507B			
A-82EL513-408	A-82EL513-408-B01, WA	K	408	1	RCBO	230	B16			A-82EL513-408-B01	A-PT210508A	P5/P12/BFOU 0,6/1kV	2x6,00 mm2/6
										A-82EL513-408-B02	A-PT210508B	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
										A-82EL513-408-B03	A-PT210508C	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
										A-82EL513-408-B04	A-PT210508D	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								1.22	0.28	A-HT210508A			
								2.09	0.48	A-HT210508B			
								0.87	0.2	A-HT210508C			
								1.22	0.28	A-HT210508D			
								2.09	0.48	A-HT210508E			
								0.87	0.2	A-HT210508F			

Heat Trace Load List

TRACE HEATING BOARD A-82EL513 - LOAD LIST												
Fed From A-82EL513	Description	Fuse Size	Circuit Type	Heater Type No.	Junction Box No.	Cable No.	Heater Type	Heater Length	Phase L1/L2/L3	Watts L1	Watts L2	Watts L3
400	SPARE	B16A	RCBO						1			
										0	**0**	**0**
401	DESCRIPTION NA FOR HTC	B16A	RCBO	A-HT240501B	A-82EL513-401-B02	A-PT240501B	MSB 40	7	2		120	
	DESCRIPTION NA FOR HTC		RCBO	A-HT240501C			MSB 40	6	2		80	
										0	**200**	**0**
402	DESCRIPTION NA FOR HTC	B16A	RCBO	A-HT240502C	A-82EL513-402-B02	A-PT240502B	MSB 40	5.5	3			120
	DESCRIPTION NA FOR HTC		RCBO	A-HT240502D			MSB 40	4.5	3			80
										0	**0**	**200**
403	SPARE	B16A	RCBO						1			
										0	**0**	**0**
404	SPARE	B16A	RCBO						2			
										0	**0**	**0**
405	DESCRIPTION NA FOR HTC	B16A	RCBO	A-HT240505A	A-82EL513-405-B02	A-PT240505B	HSB 25	3	3			75
	DESCRIPTION NA FOR HTC		RCBO	A-HT240505B	A-82EL513-405-B03	A-PT240505C	HSB 25	3	3			75
										0	**0**	**150**
406	DESCRIPTION NA FOR HTC	B16A	RCBO	A-HT210506A	A-82EL513-406-B01	A-PT210506A	MSB 40	10	1	400		
	DESCRIPTION NA FOR HTC		RCBO	A-HT210506B			MSB 40	8	1	320		
	DESCRIPTION NA FOR HTC		RCBO	A-HT210506C	A-82EL513-406-B03	A-PT210506C	MSB 40	12	1	480		
	DESCRIPTION NA FOR HTC		RCBO	A-HT210506D	A-82EL513-406-B04	A-PT210506D	MSB 40	12	1	480		
										1680	**0**	**0**
407	DESCRIPTION NA FOR HTC	B16A	RCBO	A-HT210507A	A-82EL513-407-B02	A-PT210507B	MSB 40	10	2		400	
	DESCRIPTION NA FOR HTC		RCBO	A-HT210507B	A-82EL513-407-B03	A-PT210507C	MSB 40	10	2		400	
										0	**800**	**0**

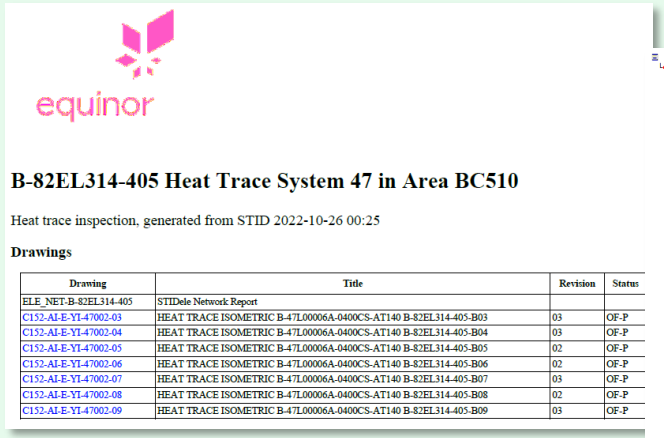
By combining data from the tag and doc modules we experience several benefits and savings

Generated heat trace inspection reports

- 43 min for Johan Castberg – 1165 reports
- 15 min for Johan Sverdrup P2 – 454 reports

One report per heat trace circuit

- Electrical network
- ISO drawings for each heat trace cable



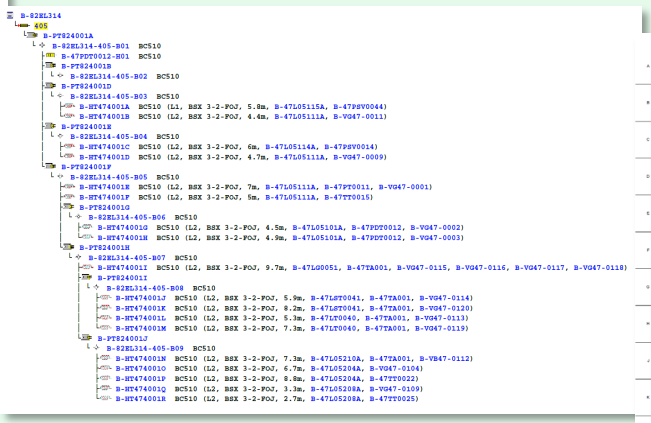
equinor

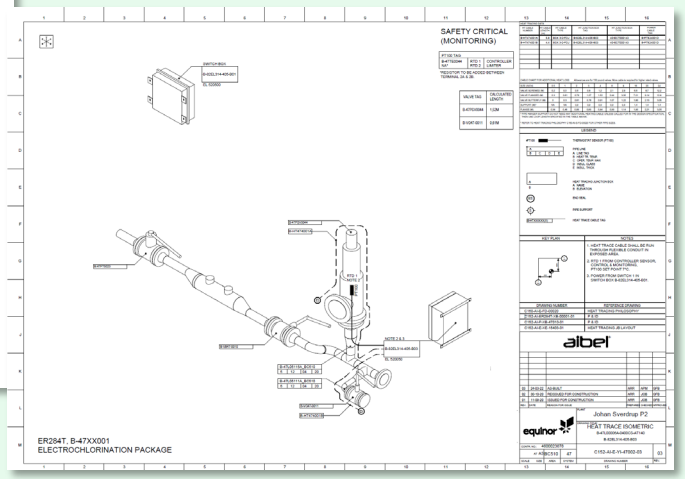
B-82EL314-405 Heat Trace System 47 in Area BC510

Heat trace inspection, generated from STID 2022-10-26 00:25

Drawings

Drawing	Title	Revision	Status
ELE_NET-B-82EL314-405	STIDele Network Report		
C152-AI-E-YI-47002-03	HEAT TRACE ISOMETRIC B-47L00006A-0400CS-AT140 B-82EL314-405-B03	03	OF-P
C152-AI-E-YI-47002-04	HEAT TRACE ISOMETRIC B-47L00006A-0400CS-AT140 B-82EL314-405-B04	03	OF-P
C152-AI-E-YI-47002-05	HEAT TRACE ISOMETRIC B-47L00006A-0400CS-AT140 B-82EL314-405-B05	02	OF-P
C152-AI-E-YI-47002-06	HEAT TRACE ISOMETRIC B-47L00006A-0400CS-AT140 B-82EL314-405-B06	02	OF-P
C152-AI-E-YI-47002-07	HEAT TRACE ISOMETRIC B-47L00006A-0400CS-AT140 B-82EL314-405-B07	03	OF-P
C152-AI-E-YI-47002-08	HEAT TRACE ISOMETRIC B-47L00006A-0400CS-AT140 B-82EL314-405-B08	02	OF-P
C152-AI-E-YI-47002-09	HEAT TRACE ISOMETRIC B-47L00006A-0400CS-AT140 B-82EL314-405-B09	03	OF-P





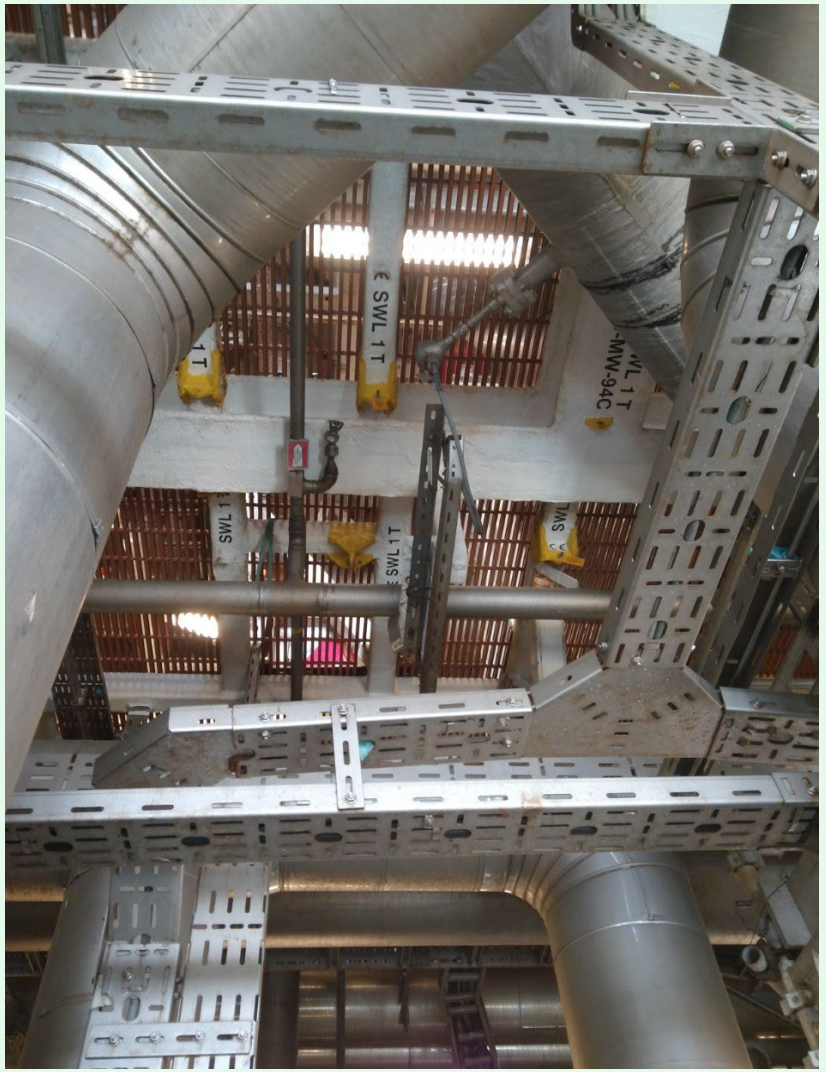
Data can be used within mapping of Cable routing

There are usually 3 segregation levels for cables

- High voltage > 1kV
- Small power < 1kV
- Instrument/telecom

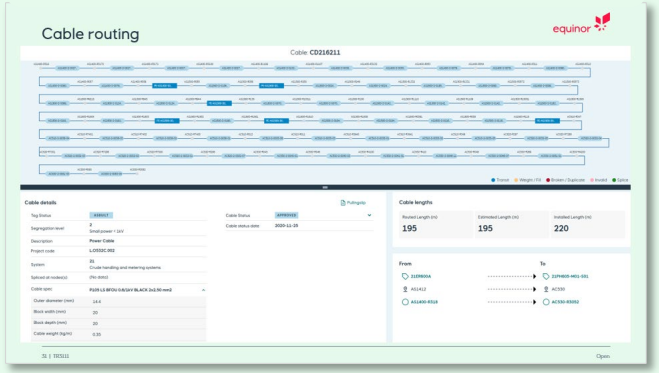
Segments and nodes define the network

- Details of size and weight
- Find shortest available path for cables

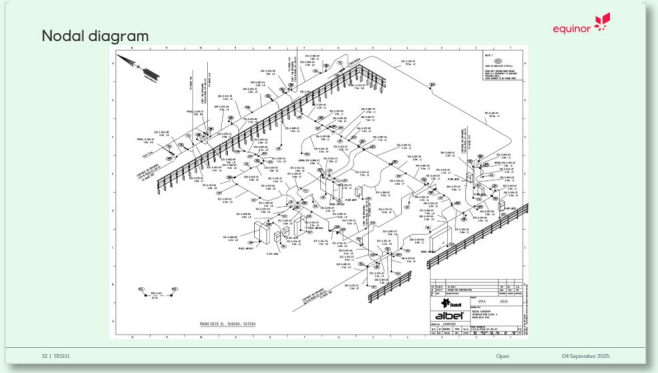


The mapping of the cables can be visualized through a series of data layers

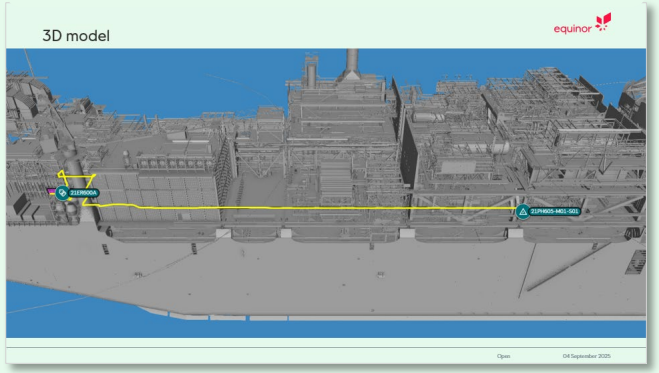
Cable routing



Nodal diagram



3D model



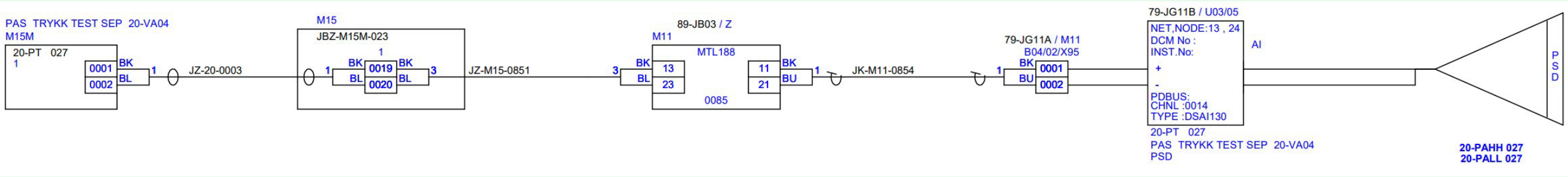
Ayelix: 360 images

Tags have coordinates

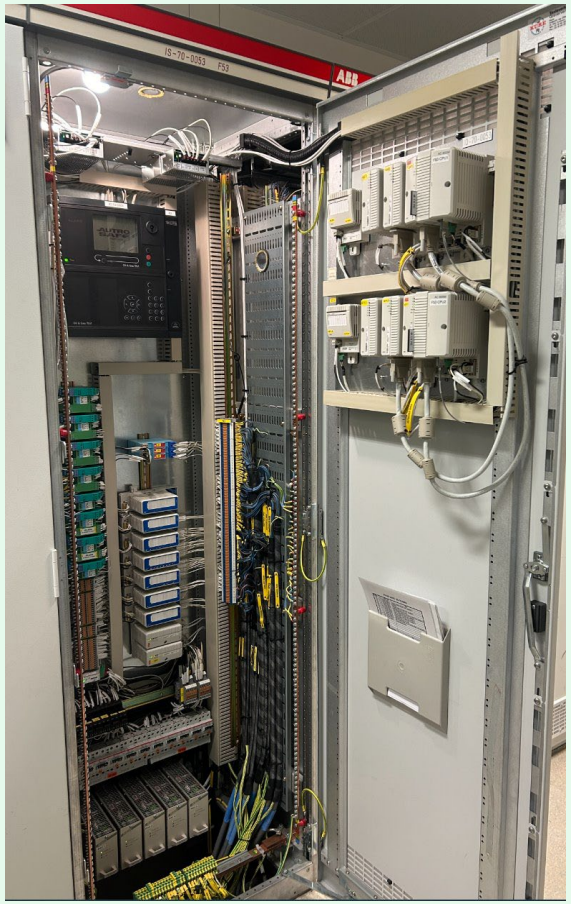
Direct links to Ayelix

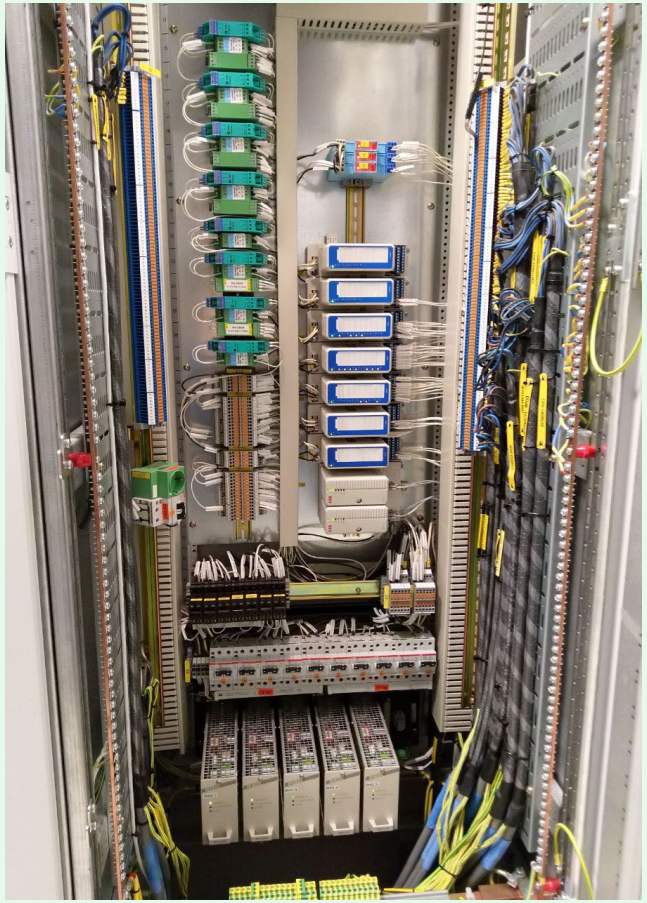
STIDloop

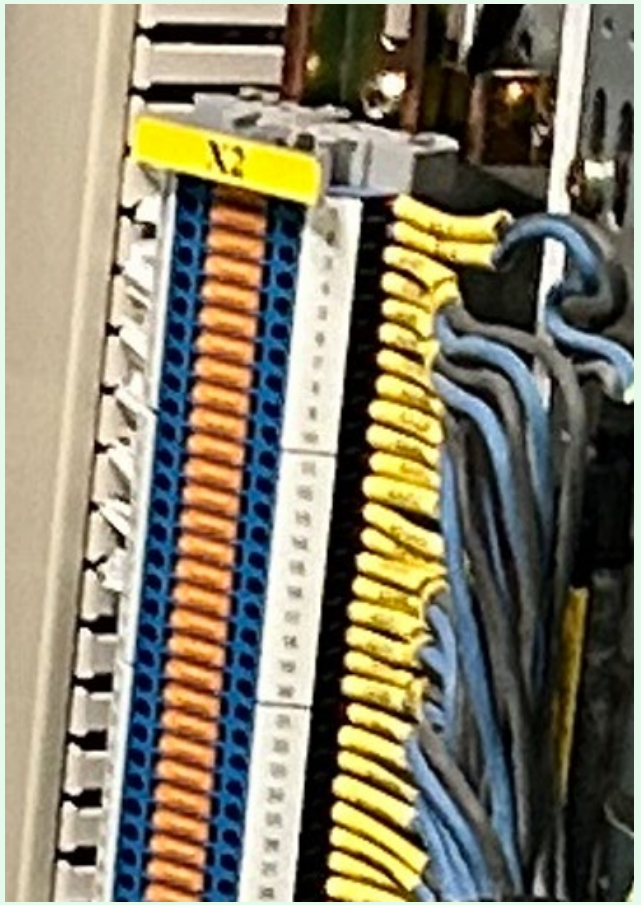
- Technical module for instrumentation, fire & gas and telecommunication loop information
- Master for loop and termination information (as-built and project)
- Used during project phase



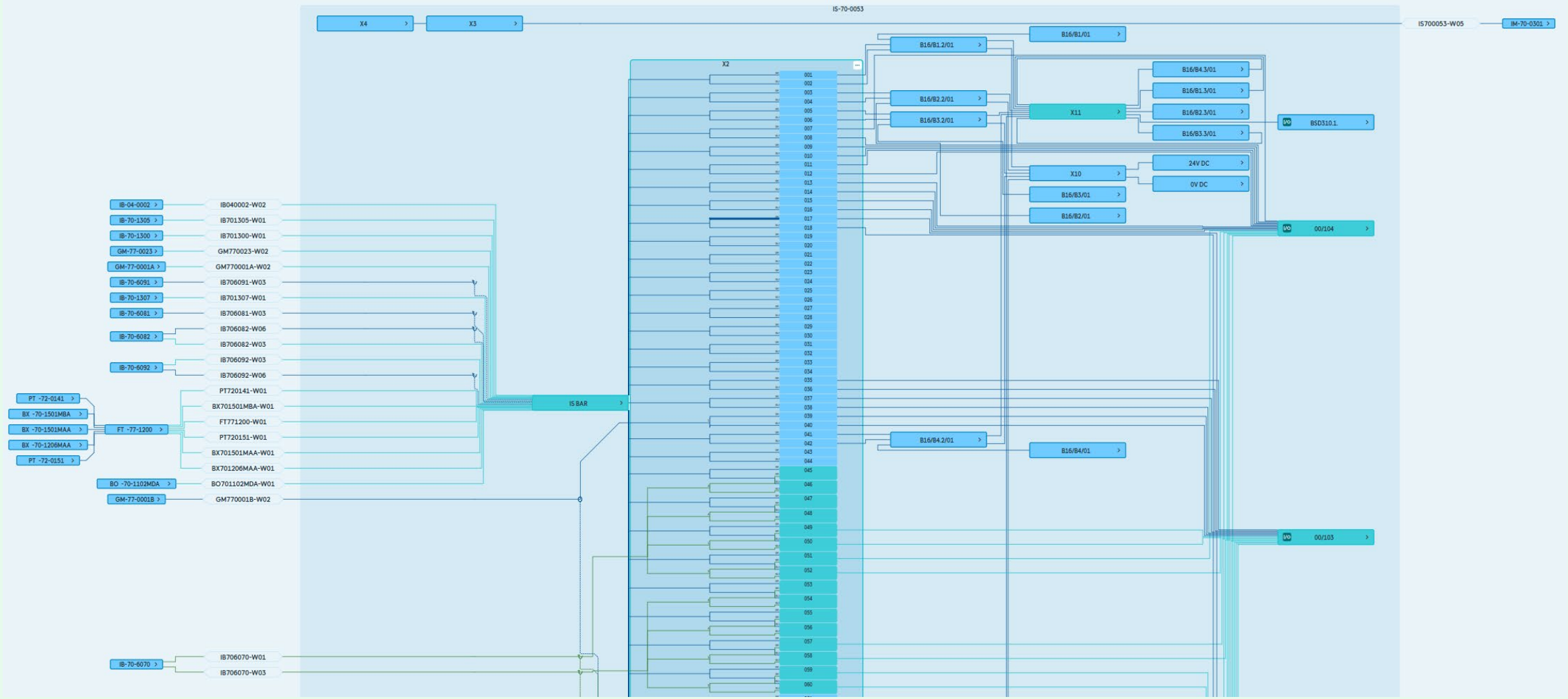
Safety an Automation System (SAS) cabinet







Safety an Automation System (SAS) cabinet in 2D

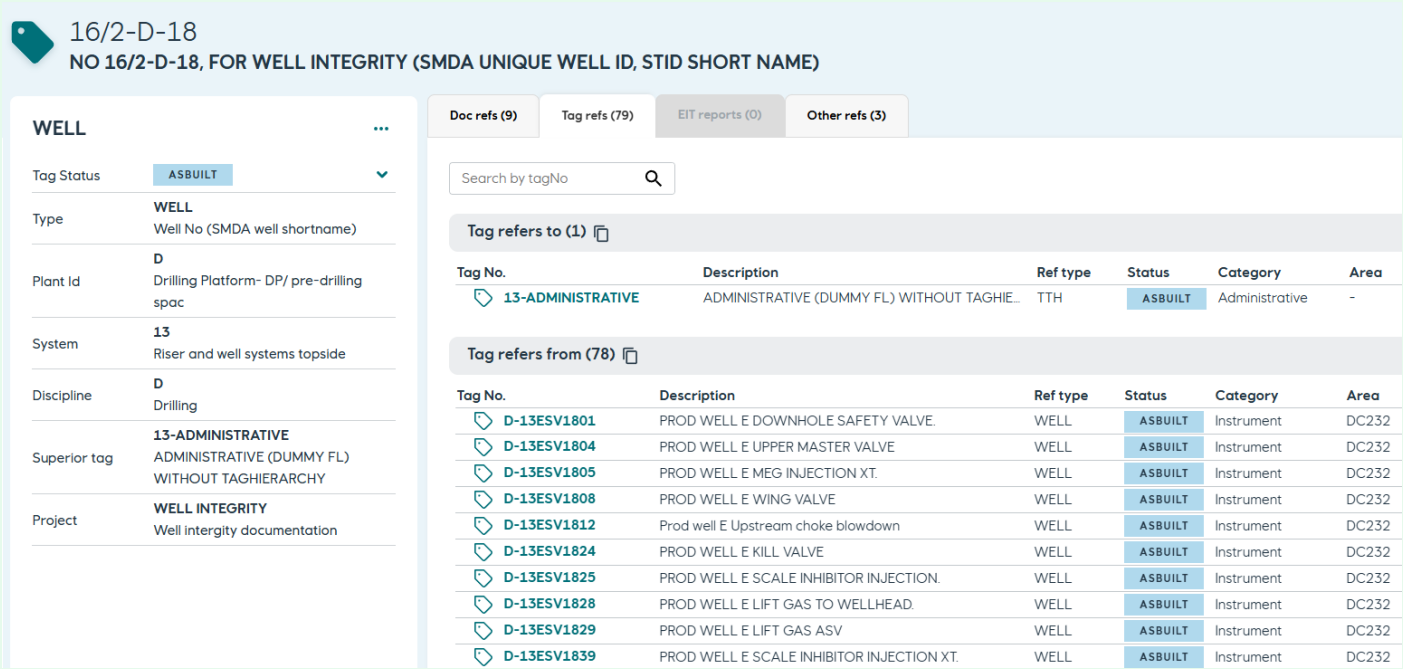


Well with instruments

New data sources:

SMDA - Subsurface Master Data (wells)

PI Vision (IMS tags/operational data sources



Operational data sources for a pressure transmitter

D-13PT1840

PROD WELL E ANNULUS A.

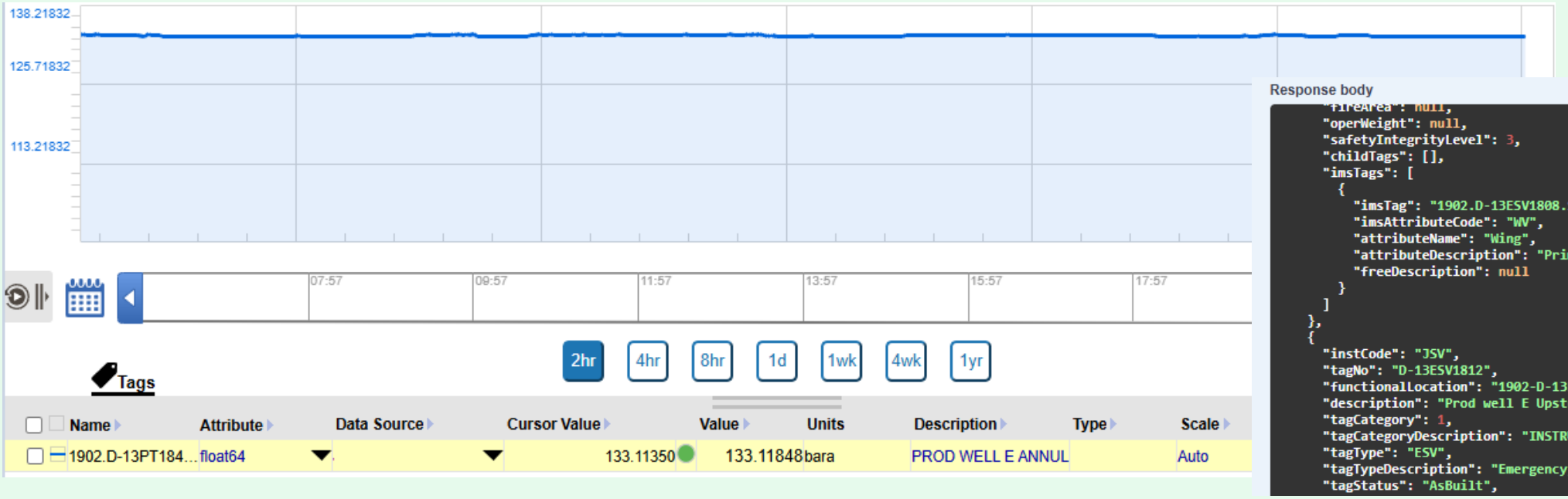
INSTRUMENT FIELD EQUIPMENT

Tag Status	ASBUILT
Type	**PT** Pressure, Transmitter
Plant Id	**D** Drilling Platform- DP/ pre-drilling spac
System	**13** Riser and well systems topside
Area	**DC232** Wellbay Area Center Tree Deck

Doc refs (34) | Tag refs (6) | EIT reports (12) | Other refs (14)

Operational data sources / IMS tags (3)

Identifier	Variable code	Description
1902.D-13PT1840.MA_PLWH	WH_ANN_A_P_PAH_LIM	Pressure Alarm High Limit in use within control system for the Primary annulus A pressure reading at the wellhead
1902.D-13PT1840.MA_PLWL	WH_ANN_A_P_PAL_LIM	Pressure Alarm Low Limit in use within control system for the Primary annulus A pressure reading at the wellhead
1902.D-13PT1840.MA_Y	WH_ANN_A_P	Primary annulus A pressure reading at the wellhead



Response body


```
    "fireArea": null,
    "operWeight": null,
    "safetyIntegrityLevel": 3,
    "childTags": [],
    "imsTags": [
      {
        "imsTag": "1902.D-13ESV1808.SBV_BCH",
        "imsAttributeCode": "WV",
        "attributeName": "Wing",
        "attributeDescription": "Primary Wing Valve position reading",
        "freeDescription": null
      }
    ]
  },
  {
    "instCode": "JSV",
    "tagNo": "D-13ESV1812",
    "functionalLocation": "1902-D-13ESV1812",
    "description": "Prod well E Upstream choke blowdown",
    "tagCategory": 1,
    "tagCategoryDescription": "INSTRUMENT FIELD EQUIPMENT",
    "tagType": "ESV",
    "tagTypeDescription": "Emergency, Safety, Valve (including Blow down valves)",
    "tagStatus": "AsBuilt",
```

Equipments and EqHub

Recently synced this data into STID

Equipments from SAP

EqHub information

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Pos**	**Item**		**Type**				**Ex-Protection**	**Uo**	**Io**	**Po**	**Lo**	**Co**
2	**no**	**Manufacturer**		**Ambient temp. Range**					**V**	**mA**	**mW**	**mH**	**nF**
3	1			STAHL_9468/32-08-11				Ex ia [ia Ga] IIC T4 Gb	250	80	-488	3,8	60,189
4		Stahl						DEKRA 12 ATEX0173 X					
5													
6	**Pos**	**Item**		**Type**				**Ex-Protection**	**Uo**	**Io**	**Po**	**Lo**	**Co**
7	**no**	**Manufacturer**		**Ambient temp. Range**				**Ex-Certification**	**V**	**mA**	**mW**	**mH**	**nF**
8	2	Cable A-64JBZ0303-Z04/S8 TMC BFOU(c) 250V GREY 8x2x0,75 mm										0,02077	3,41
9		31 m		0,67 mH/km		110 nF/km							
10	3	Cable A-64LT0171-Z01		S3/S7 BFOU(i)250V GREY 1x2x0,75 mm2								0,00134	0,22
11		2 m		0,67 mH/km		110 nF/km							
12	4	01 guided radar for l		5301				Ex ia IIC T4 Ga T6j	31,7	130	1000	0,005	7,269
13		ROSEMOUNT		-50 °C ... +70 °C				NEMKO 04ATEX1073X					
14													
15	S1 = Sum (pos no 1 to 1)								250	80	-488	3,8	60,189
16													
17	S2 = Sum (pos no 2 to 4)								31,7	130	1000	0,02711	10,899
18													
19	Criteria									S1 ≤ S2		S1 ≥ S2	
20													
21	Result								FAIL	OK	OK	OK	OK
22													
23	Protection level of the system (ref			IIC									
24													
25													
26	**IS entity calculation**			**Level, Transmitter A-64LT0171**									

Used in:

LCI QC Reports

Showing product typical information for tags

In Progress

Generate Intrinsic Safe calculation reports

Building the digital asset

Bent S. Lund