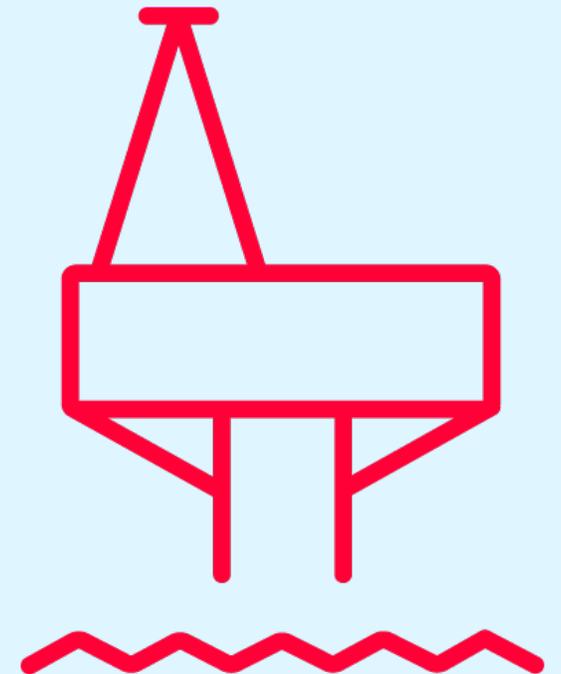




Building the digital asset

ECIM conference 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



Jan Fredrik Drabløs
System manager STID

- 15 years in STID as a developer
- Located in Stavanger, Norway

Agenda

Part 1

Building the digital asset

Part 2

Detailed examples in STID (Technical Information & Documentation)

Agenda

Part 1

Building the digital asset

Part 2

Detailed examples in STID (Technical Information & Documentation)



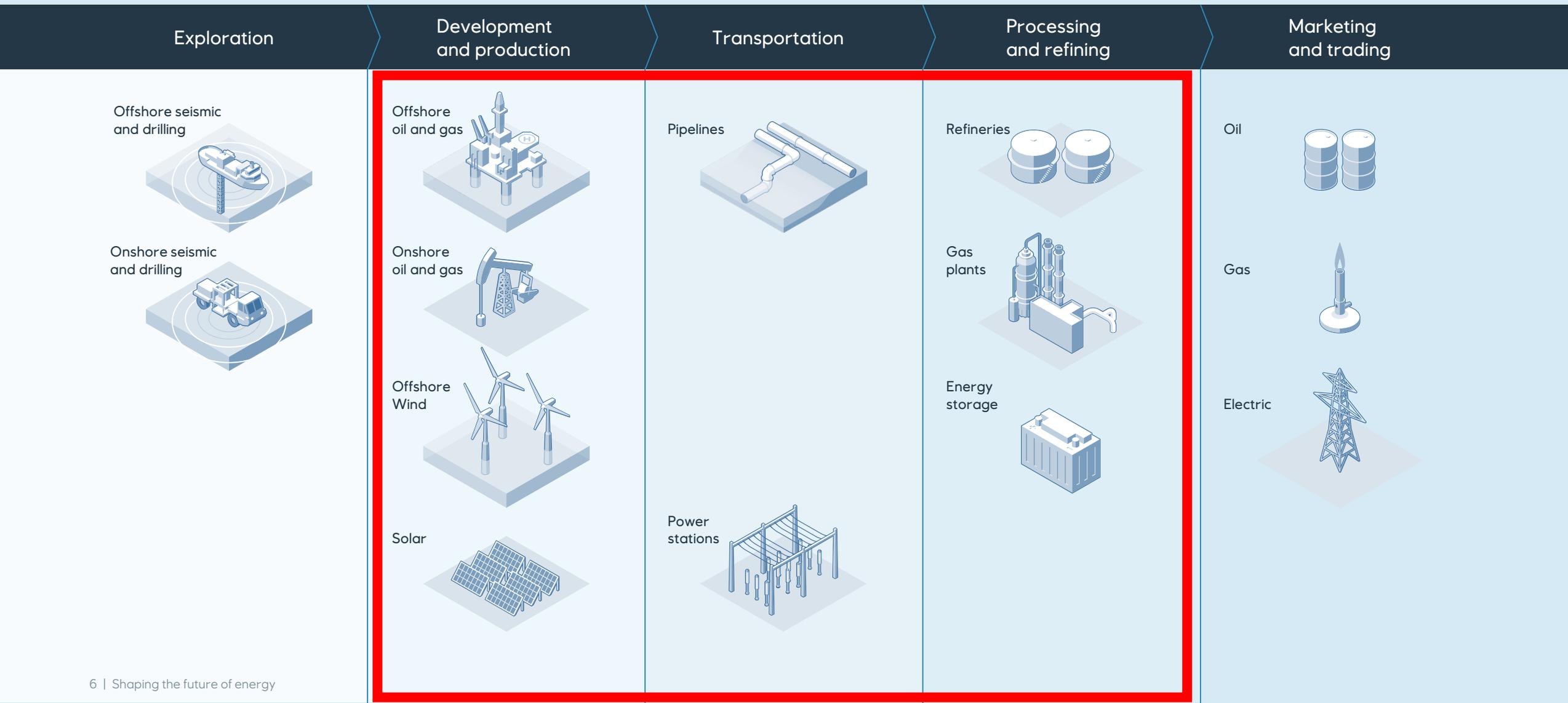
Energy for people.
Progress for society.
Searching for better.

Equinor corporate presentation

Published 01 APRIL 2025



Our value chain is mainly focused from development and until processing



wood.

subsea 7

aibel®



KONGSBERG

KVÆRNER™

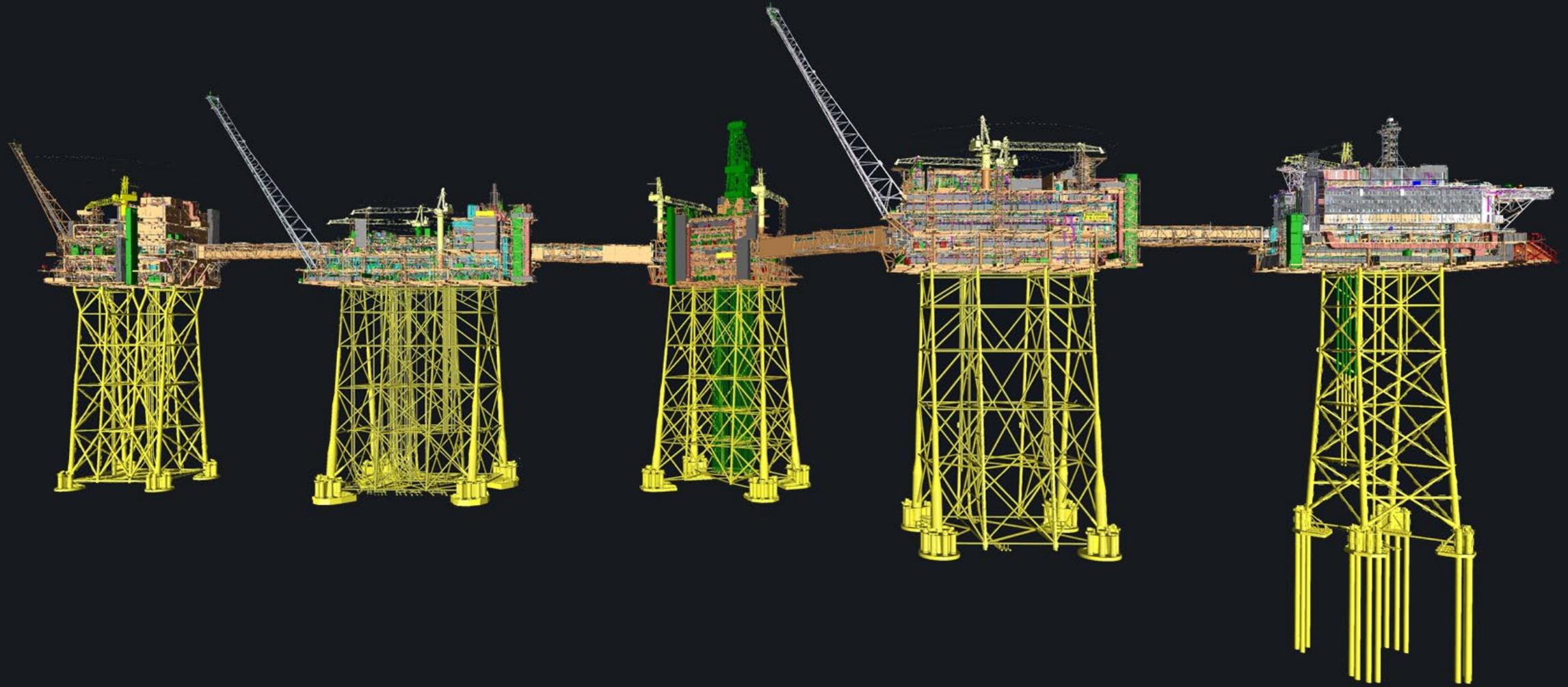


SIEMENS

SAMSUNG

ABB





Control center

System reports

Configuration

Global control center

Legend Add plant

Start Stop Kill Refresh Renew

Search...

<input type="checkbox"/>	Daemon enabled	Daemon status	Name	Plant code	STID	Responsible	Locations
<input type="checkbox"/>	✓	✓	Aasgard A	AAA	STID		■ HUB ■ ▲ AKS ■ VAB ■ ▲ WGN
<input type="checkbox"/>	✓	✓	Aasta Hansteen	AHA	STID		■ HUB ■ ASN ■ VAC ■ (VAH) ■ ▲ VAO ■ (VAG) ■ (VAS) ■ (VAT)
<input type="checkbox"/>	✗	✗	AVEVA Plant Sample	APS			
<input type="checkbox"/>	✓	✓	Aasgard Subsea	ASC	STID		■ HUB ■ AKO
<input type="checkbox"/>	✓	✓		ASG	STID		■ HUB ■ AKS ■ VAB
<input type="checkbox"/>	✓	✓	Baltyk II	BAA	STID		■ HUB ■ ▲ SMU
<input type="checkbox"/>	✓	✓	Baltyk III	BAB	STID		■ HUB ■ ▲ SMU
<input type="checkbox"/>	✓	✓	Raia FPSO	BMC	STID		■ ▲ HUB ■ ▲ MOH ■ (MOS) ■ ▲ (BOM) ■ ▲ (BOU) ■ ▲ (CAM) ■ ▲ (COS) ■ ▲ (EBR) ■ ▲ (SID)
<input type="checkbox"/>	✓	✓	Raia Onshore Facility	BOF	STID		■ HUB ■ ▲ WPN ■ (WPB)
<input type="checkbox"/>	✓	✓	Baltyk II Onshore Substation	BSA	STID		■ HUB ■ ▲ EPK
<input type="checkbox"/>	✓	✓	Baltyk III Onshore Substation	BSB	STID		■ HUB ■ ▲ EPK
<input type="checkbox"/>	✓	✓	CAJ J Askepott	CAJ	STID		■ HUB ■ PRS
<input type="checkbox"/>	✓	✓	Bacalhau FPSO	CAR	STID		■ ▲ HUB ■ GDP ■ MOH ■ (MOS) ■ ▲ (BOM) ■ ▲ (SID) ■ ▲ (SUB)

Columns Filters

Collapse



Rows: 103

Spec

Transport

Primary systems

Consume, enrich, combine, visualize, analyze



TR2231

TR2381

TR0052

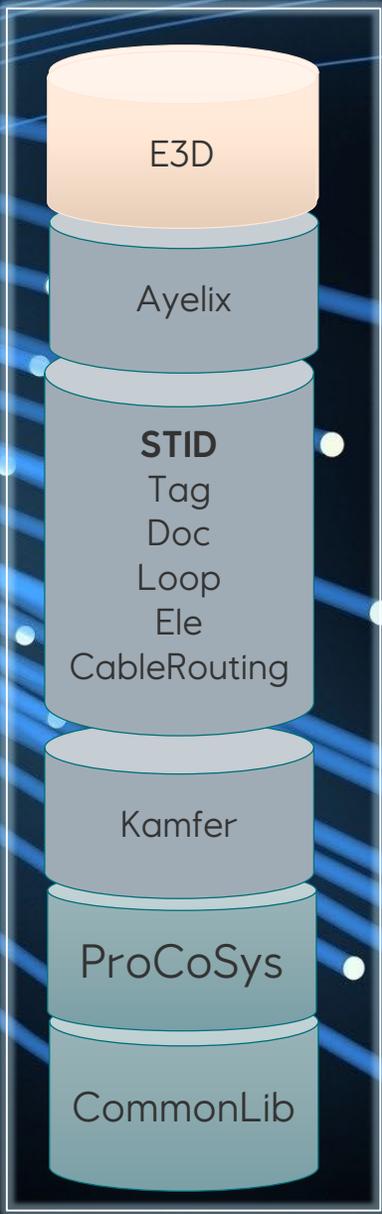
TR1970

TR1033

TR3111

E3D
Global

TechnicalInformationExchange - TIE



NavisWorks

SAP

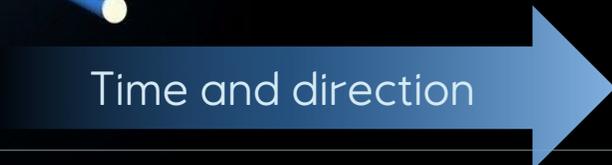
CoW

EqHub

SEMI

Business data products

Omnia DataLake



Echo

Alarm

Permit Vision

Power BI

eCm

Holo Lens

fusion

IMS

PMATE

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.



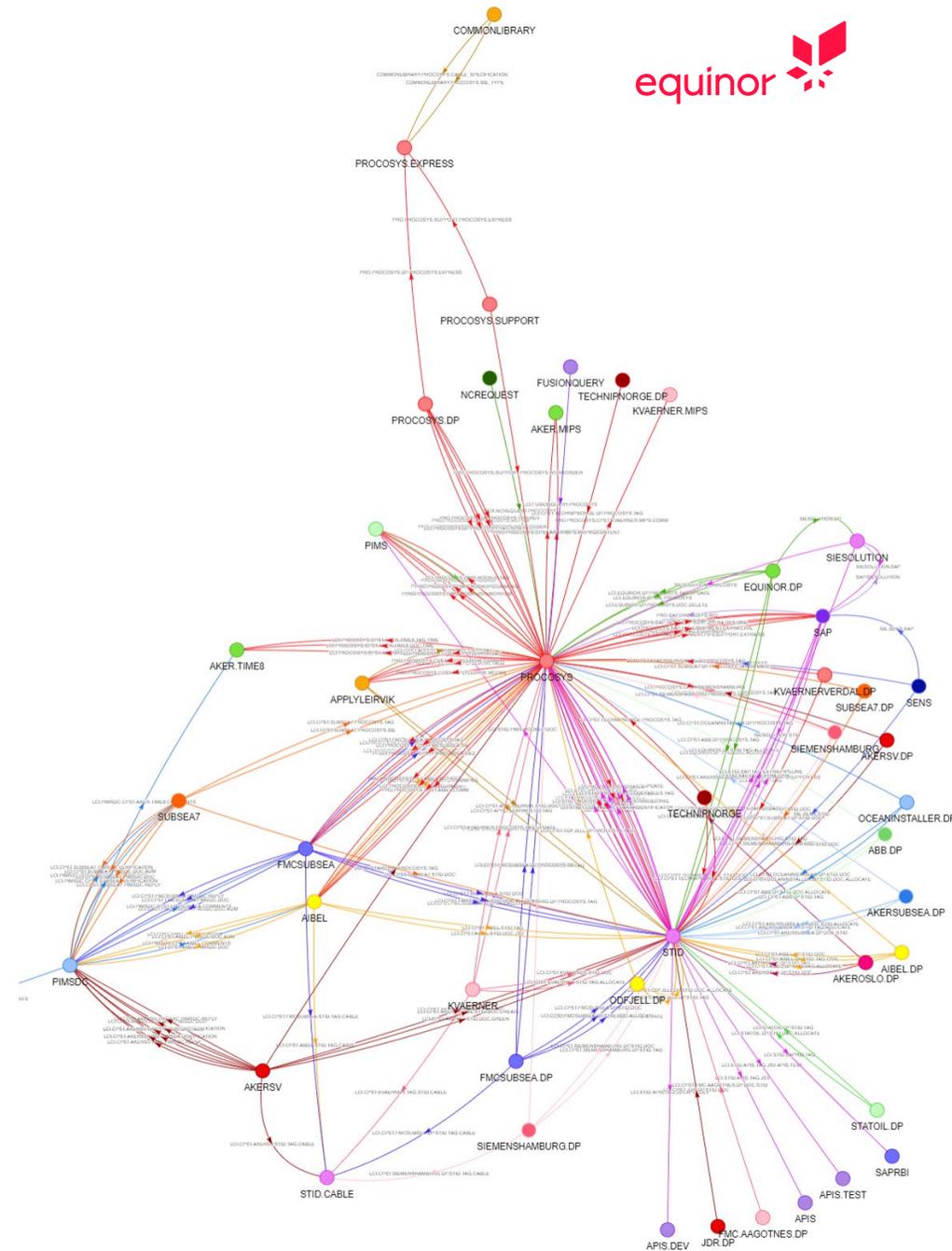
Provides Excel-templates and web portal for manual upload

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





TIE endpoints



150 external and internal application endpoints



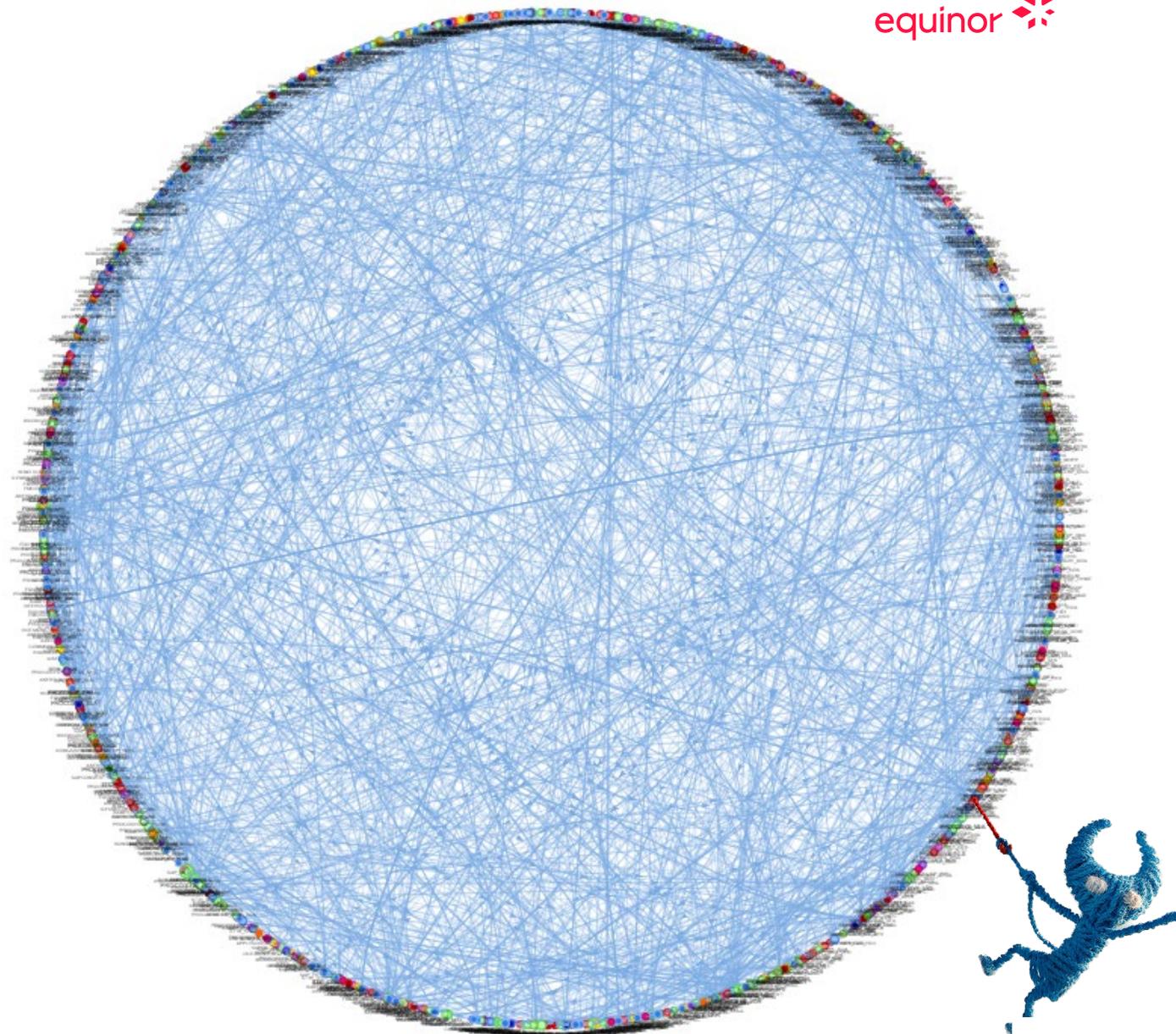
1092 subscriptions



Average of 250.000 messages/day



Rule based processing of messages





- <<
- 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
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	11IB005-G01	JSV	LO265C.001	PROCOSYS	13 Jun 2025 14:26:46	Update	Failed	13 Jun 2025 14:28:10
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	302A1-JB001-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:27	Update	Successful	1 Aug 2025 14:17:50
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	302A1-XT001-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:24	Update	Successful	1 Aug 2025 14:17:44
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	302A1-XT002-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:25	Update	Successful	1 Aug 2025 14:17:47
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	302A1-XT003-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:28	Update	Successful	1 Aug 2025 14:17:52
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	302A1-XT004-C01	JSV	4590385976	PROCOSYS	1 Aug 2025 14:17:29	Update	Successful	1 Aug 2025 14:17:54
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	303A1-XT001-C01	JSV	4590385976	PROCOSYS	5 Aug 2025 07:22:41	Update	Successful	5 Aug 2025 07:26:12
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	303A1-XT002-C01	JSV	4590385976	PROCOSYS	5 Aug 2025 07:22:42	Update	Successful	5 Aug 2025 07:26:13
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	311A1-EX002G-P01	JSV	M.O265C.22.A.00...	PROCOSYS	25 Jun 2025 12:31:18	Update		Invalid date
<input checked="" type="checkbox"/>	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
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	311C1-JB001-F05	JSV	TO265C.DG.00119	PROCOSYS	17 Jul 2025 06:55:18	Update	Failed	17 Jul 2025 06:56:05
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	311D1-IB001-C01	JSV	TO265C.DG.00119	PROCOSYS	17 Jul 2025 06:57:17	Update	Successful	17 Jul 2025 06:58:14
<input checked="" type="checkbox"/>	CABLEROUTING	CABLE	311D1-IB002-C01	JSV	TO265C.DG.00119	PROCOSYS	17 Jul 2025 06:57:18	Update	Successful	17 Jul 2025 06:58:15

Agenda

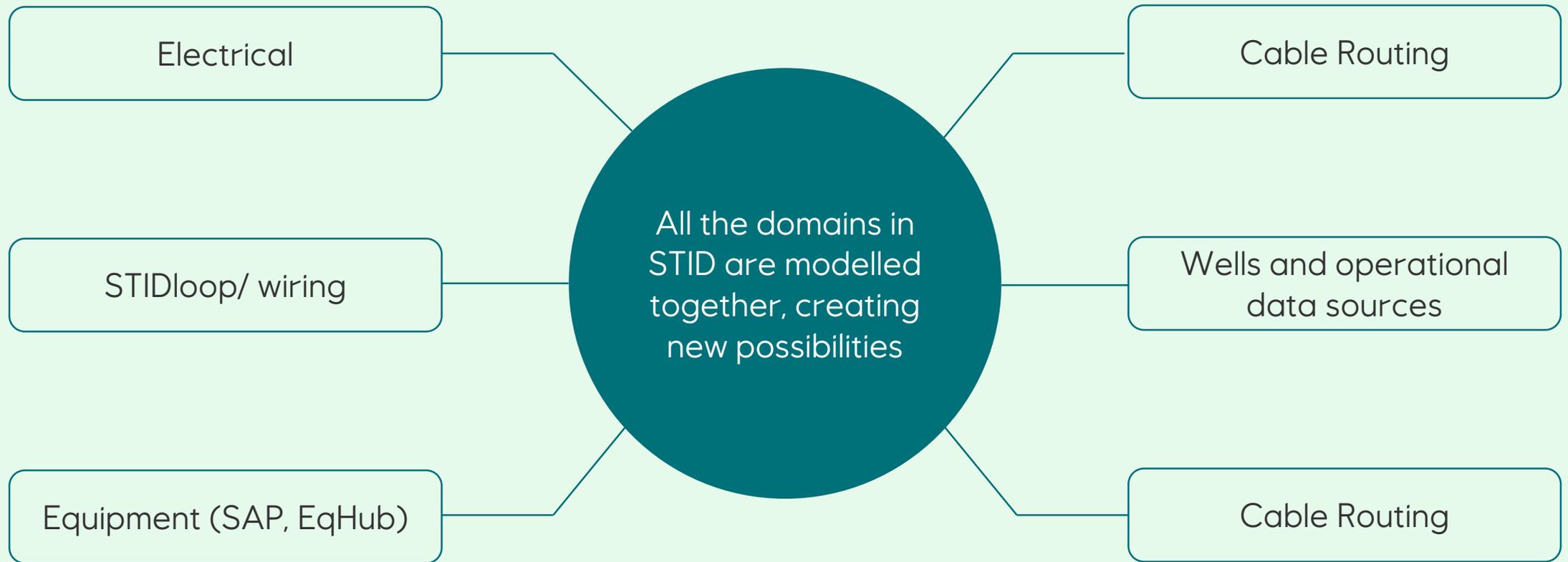
Part 1

Building the digital asset

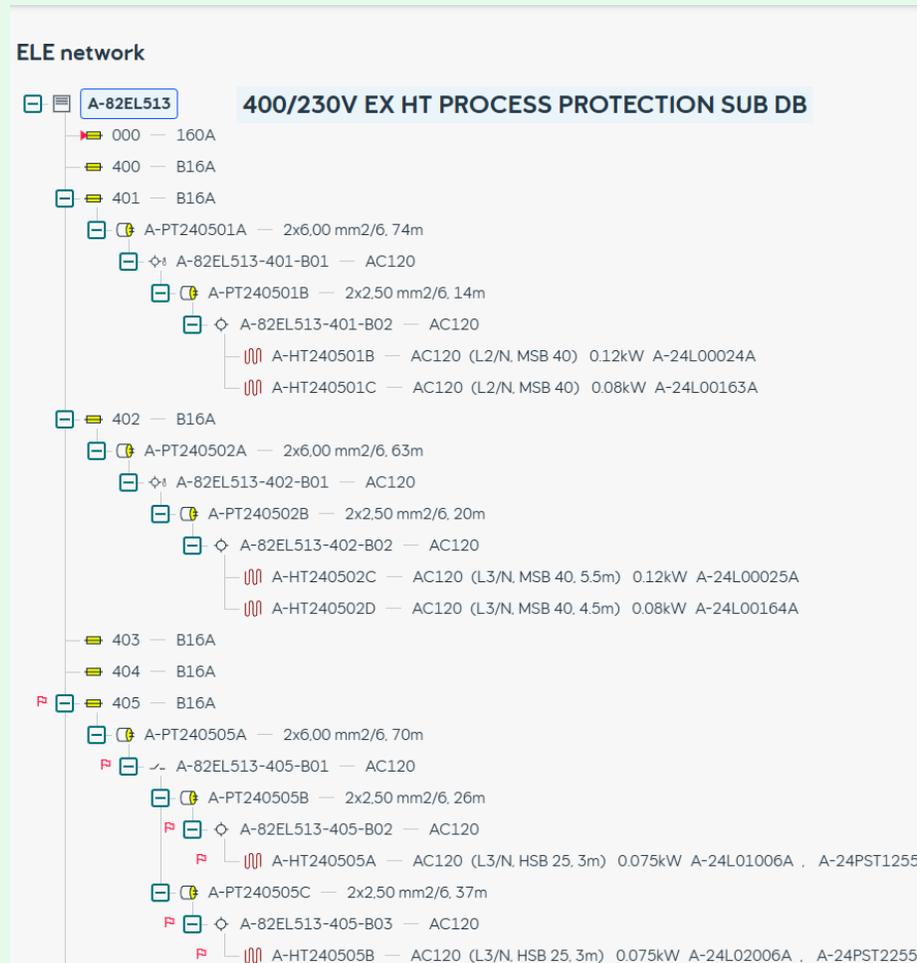
Part 2

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

11/11/2025

FEED NO

FEED NO	FEED NAME	CABLE NO.	TYPE	STATUS	DESCRIPTION	TERMINAL	CONDUIT	CONDUIT DIA.	AREA	CABLE	KEY
1	FEED 1		SA		FEED 1 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				
2	FEED 2		SA		FEED 2 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				
3	FEED 3		SA		FEED 3 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				
4	FEED 4		SA		FEED 4 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				
5	FEED 5		SA		FEED 5 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				
6	FEED 6		SA		FEED 6 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				
7	FEED 7		SA		FEED 7 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				
8	FEED 8		SA		FEED 8 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				
9	FEED 9		SA		FEED 9 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				
10	FEED 10		SA		FEED 10 TO 10 OF A-BUS-111 FROM FEED 10	101-111, 121, 131, 141, 151	100A				

21 | 11/11/2025

Open

04 September 2025

Load List Report

11/11/2025

LOAD LIST REPORT

LOAD DESCRIPTION	LOAD CATEGORY	LOAD CHARACTERISTICS	LOAD DETAIL
A-BUS-111-101	FEED 1	100A	100A
A-BUS-111-102	FEED 2	100A	100A
A-BUS-111-103	FEED 3	100A	100A
A-BUS-111-104	FEED 4	100A	100A
A-BUS-111-105	FEED 5	100A	100A
A-BUS-111-106	FEED 6	100A	100A
A-BUS-111-107	FEED 7	100A	100A
A-BUS-111-108	FEED 8	100A	100A
A-BUS-111-109	FEED 9	100A	100A
A-BUS-111-110	FEED 10	100A	100A

21 | 11/11/2025

Open

04 September 2025

Heat Trace Load List

11/11/2025

HEAT TRACE LOAD LIST

FEED FROM	DESCRIPTION	FEED TYPE	CONDUIT TYPE	HEATER TYPE NO.	INSULATION NO.	CABLE NO.	HEATER TYPE	HEATER LENGTH	PHASE	Watts L1	Watts L2	Watts L3
101	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-01	1	1	100	100	100
102	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-02	2	2	200	200	200
103	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-03	3	3	300	300	300
104	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-04	4	4	400	400	400
105	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-05	5	5	500	500	500
106	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-06	6	6	600	600	600
107	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-07	7	7	700	700	700
108	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-08	8	8	800	800	800
109	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-09	9	9	900	900	900
110	DESCRIPTION NA FOR HTC	BUSA	NRC3	A-12345678	A-12345678	A-12345678	HTB-10	10	10	1000	1000	1000

20 | 11/11/2025

Open

04 September 2025

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
								0.52	0.12	A-82EL513-401-B02	A-PT240501B	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								0.35	0.08	A-HT240501B			
										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
								0.52	0.12	A-82EL513-402-B02	A-PT240502B	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								0.35	0.08	A-HT240502C			
										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
								0.33	0.075	A-82EL513-405-B03	A-PT240505C	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								0.33	0.075	A-HT240505A			
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			
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
								1.74	0.4	A-82EL513-407-B03	A-PT210507C	P5/P12/TMC BFOU 0,6/1kV	2x2,50 mm2/6
								1.74	0.4	A-HT210507A			
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

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-47L0006A-0400CS-AT140 B-82EL314-405-B03	03	OF-P
C152-AI-E-YI-47002-04	HEAT TRACE ISOMETRIC B-47L0006A-0400CS-AT140 B-82EL314-405-B04	03	OF-P
C152-AI-E-YI-47002-05	HEAT TRACE ISOMETRIC B-47L0006A-0400CS-AT140 B-82EL314-405-B05	02	OF-P
C152-AI-E-YI-47002-06	HEAT TRACE ISOMETRIC B-47L0006A-0400CS-AT140 B-82EL314-405-B06	02	OF-P
C152-AI-E-YI-47002-07	HEAT TRACE ISOMETRIC B-47L0006A-0400CS-AT140 B-82EL314-405-B07	03	OF-P
C152-AI-E-YI-47002-08	HEAT TRACE ISOMETRIC B-47L0006A-0400CS-AT140 B-82EL314-405-B08	02	OF-P
C152-AI-E-YI-47002-09	HEAT TRACE ISOMETRIC B-47L0006A-0400CS-AT140 B-82EL314-405-B09	03	OF-P

Data can be used within mapping of Cable routing



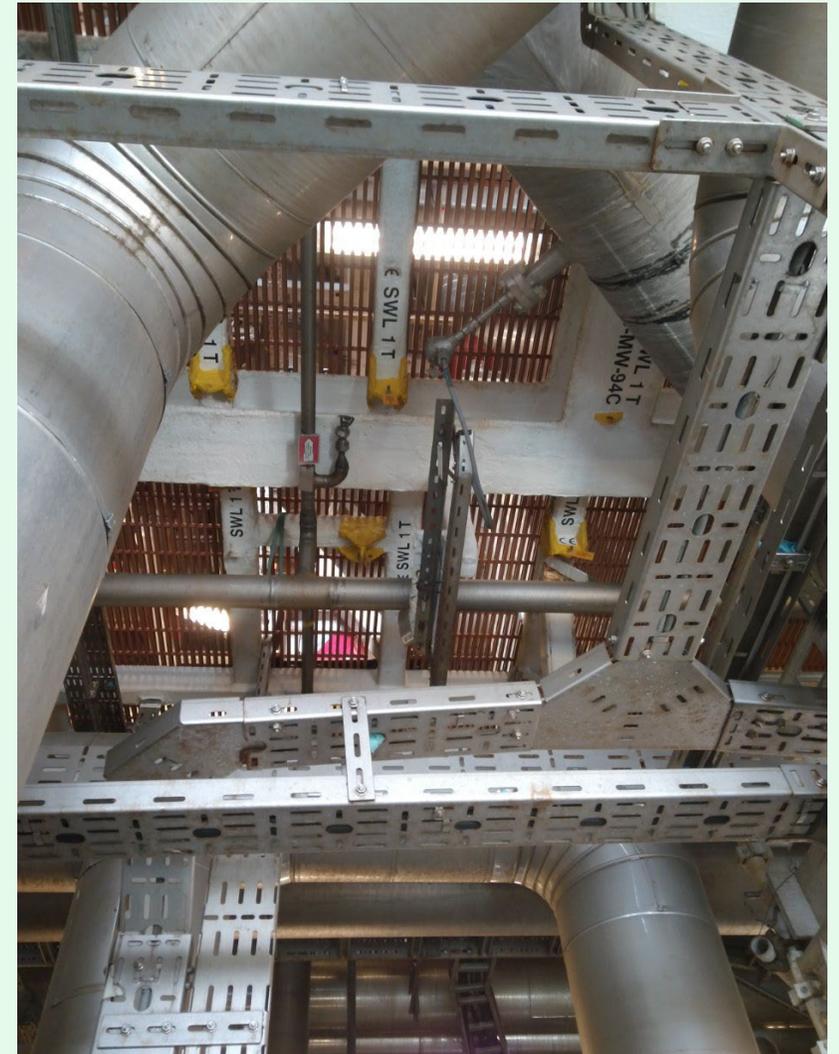
There are usually 3 segregation levels for cables

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



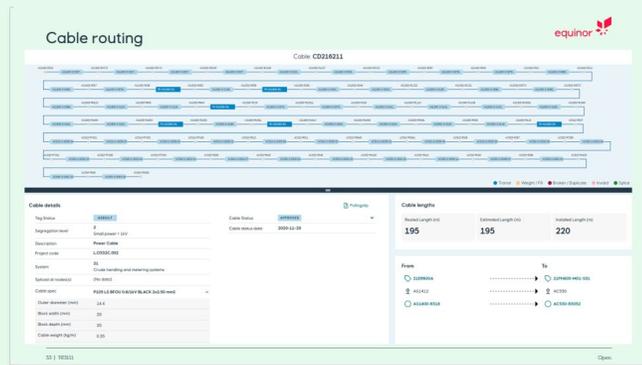
Segments and nodes define the network

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

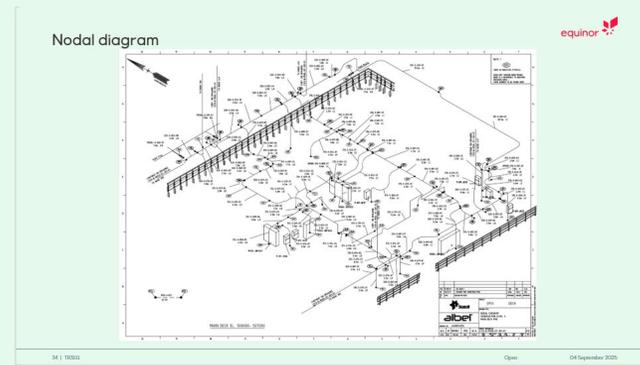


The mapping of the cables can be visualized through a series of data layers

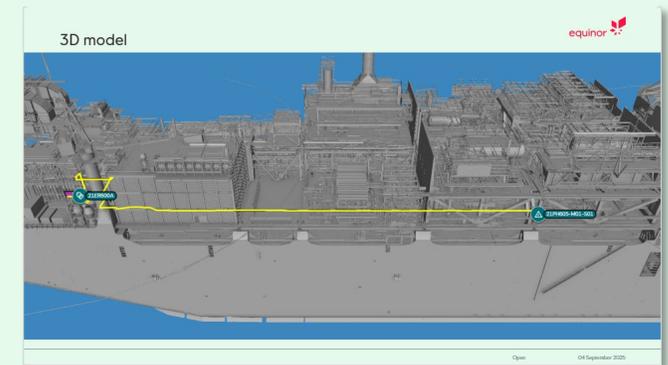
Cable routing



Nodal diagram



3D model



Ayelix: 360 images

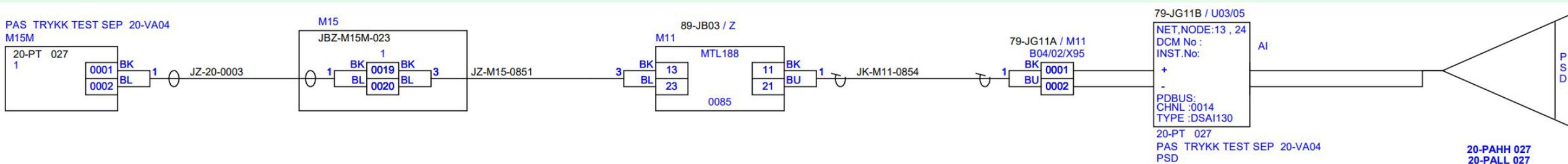
Tags have coordinates

Direct links to Ayelix



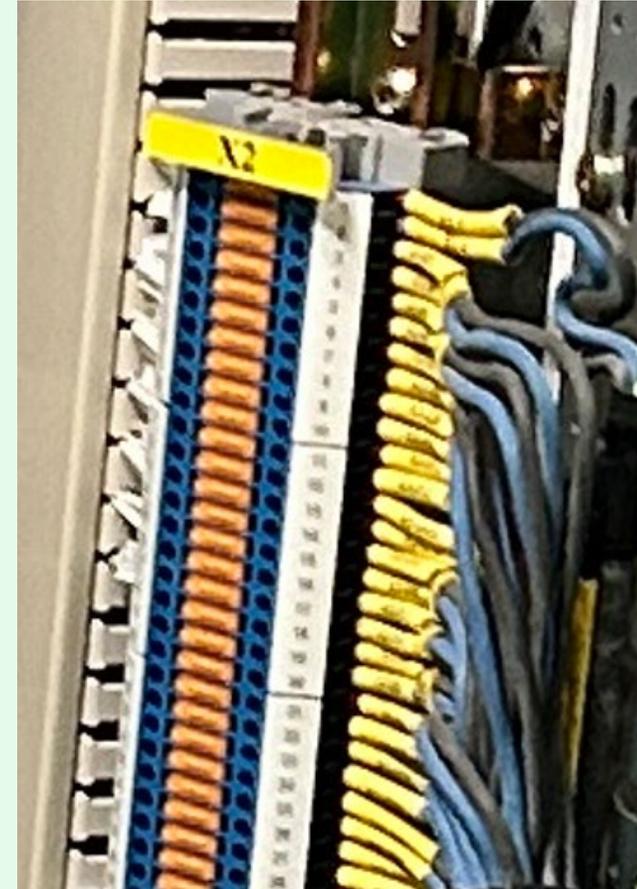
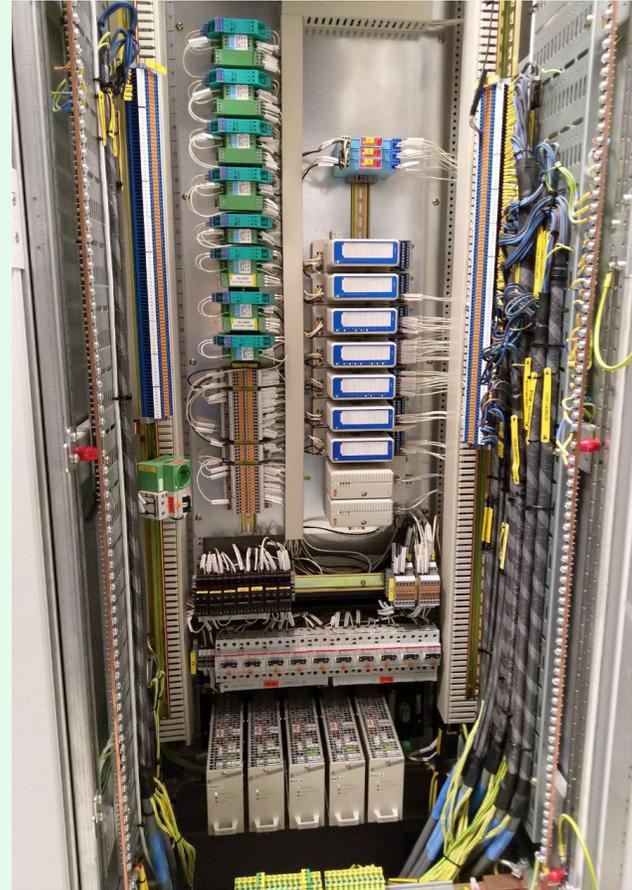
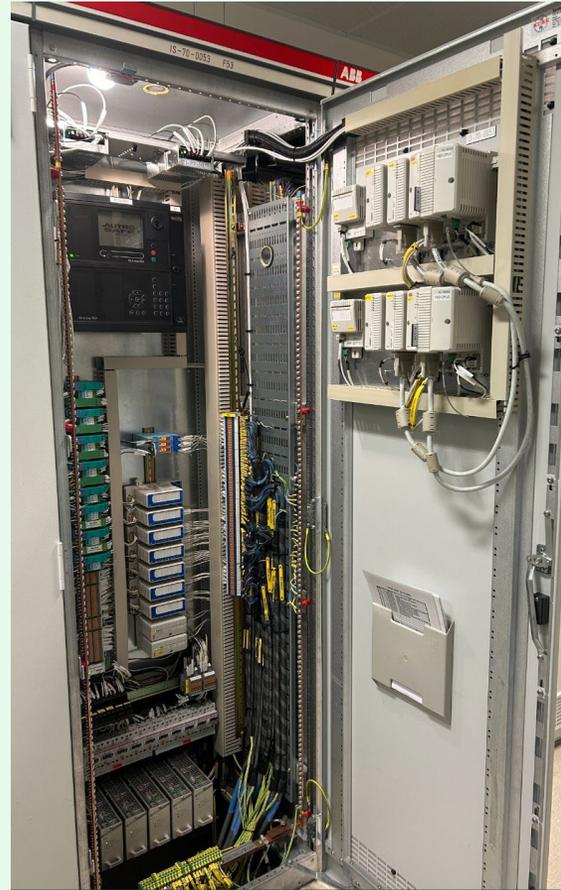
STIDloop

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

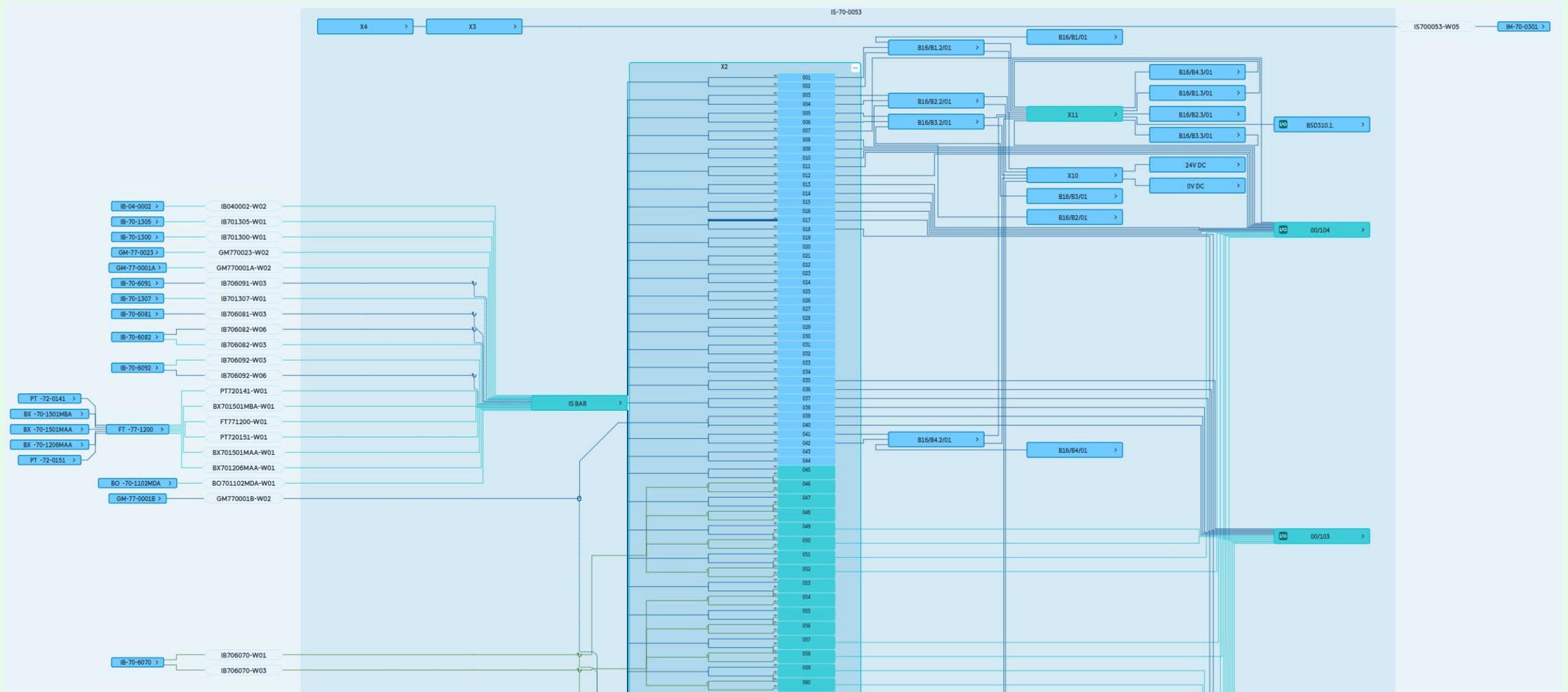




Safety an Automation System (SAS) cabinet



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)

16/2-D-18
NO 16/2-D-18, FOR WELL INTEGRITY (SMDA UNIQUE WELL ID, STID SHORT NAME)

WELL ...

Tag Status: **ASBUILT** ▼

Type: **WELL**
Well No (SMDA well shortname)

Plant Id: **D**
Drilling Platform- DP/ pre-drilling spac

System: **13**
Riser and well systems topside

Discipline: **D**
Drilling

Superior tag: **13-ADMINISTRATIVE**
ADMINISTRATIVE (DUMMY FL) WITHOUT TAGHIERARCHY

Project: **WELL INTEGRITY**
Well integrity documentation

Doc refs (9) | Tag refs (79) | EIT reports (0) | Other refs (3)

Search by tagNo 🔍

Tag refers to (1) 📄

Tag No.	Description	Ref type	Status	Category	Area
🔗 13-ADMINISTRATIVE	ADMINISTRATIVE (DUMMY FL) WITHOUT TAGHIE...	TTH	ASBUILT	Administrative	-

Tag refers from (78) 📄

Tag No.	Description	Ref type	Status	Category	Area
🔗 D-13ESV1801	PROD WELL E DOWNHOLE SAFETY VALVE.	WELL	ASBUILT	Instrument	DC232
🔗 D-13ESV1804	PROD WELL E UPPER MASTER VALVE	WELL	ASBUILT	Instrument	DC232
🔗 D-13ESV1805	PROD WELL E MEG INJECTION XT.	WELL	ASBUILT	Instrument	DC232
🔗 D-13ESV1808	PROD WELL E WING VALVE	WELL	ASBUILT	Instrument	DC232
🔗 D-13ESV1812	Prod well E Upstream choke blowdown	WELL	ASBUILT	Instrument	DC232
🔗 D-13ESV1824	PROD WELL E KILL VALVE	WELL	ASBUILT	Instrument	DC232
🔗 D-13ESV1825	PROD WELL E SCALE INHIBITOR INJECTION.	WELL	ASBUILT	Instrument	DC232
🔗 D-13ESV1828	PROD WELL E LIFT GAS TO WELLHEAD.	WELL	ASBUILT	Instrument	DC232
🔗 D-13ESV1829	PROD WELL E LIFT GAS ASV	WELL	ASBUILT	Instrument	DC232
🔗 D-13ESV1839	PROD WELL E SCALE INHIBITOR INJECTION XT.	WELL	ASBUILT	Instrument	DC232

Operational data sources for a pressure transmitter

D-13PT1840
PROD WELL E ANNULUS A.

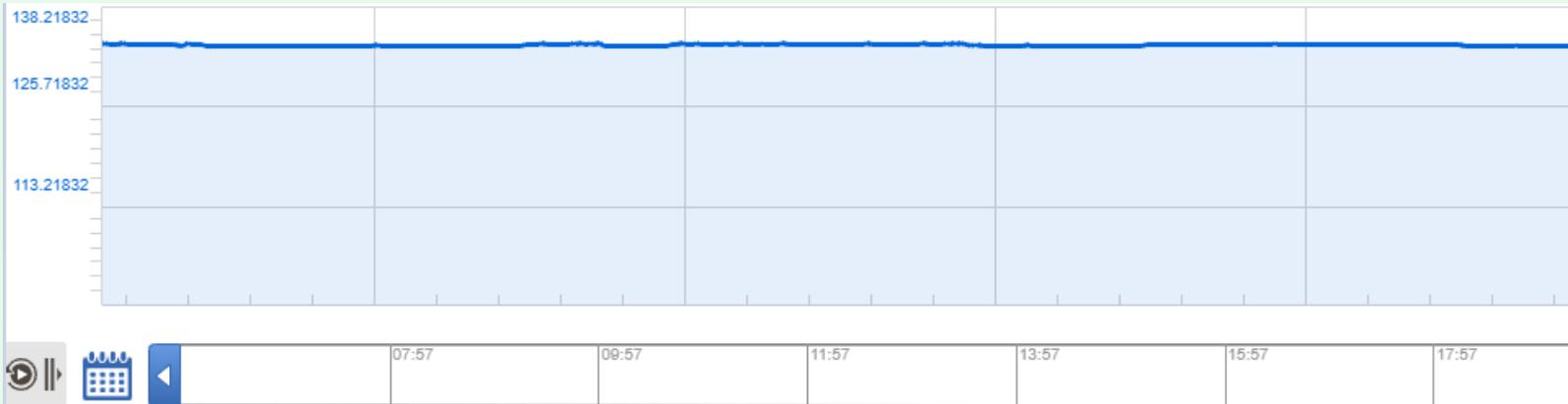
INSTRUMENT FIELD EQUIPMENT

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",

```

Name	Attribute	Data Source	Cursor Value	Value	Units	Description	Type	Scale
1902.D-13PT184...	float64		133.11350	133.11848	bara	PROD WELL E ANNUL		Auto

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

Used in:

LCI QC Reports

Showing product typical information for tags

In Progress

Generate Intrinsic Safe calculation reports

All Equinor contributions to ECIM2025



Back2Basics – Data Governance

- **Tues – 13:30: Rodrigo Zeballos Espinoza** (Engineer Data Management), **Mary Vannicola** (Sub Compliance Lead) & **Øyvind Ørnes** (Leading Advisor Sub Data Management)
 - From Rules to Results: Building a Collaborative Data Governance Culture Across Data Offices
- **Wed – 08:30: Eric Lewin** (Business Analyst / Functional Architect)
 - Using OSDU as the backbone for the Capital Value Process
- **Wed – 10:30: Bjørn Rugland** (Product Owner) & **Shrey Nishchal** (Data Engineer)
 - Subsurface Production Data (SPD) - Centralized tag mapping library

Data Organisation & Collaboration

- **Wed – 08:30: Berit Reppen Lorentzen** (Leading Advisor Data Analytics)
 - From avant-garde to API: Data management lessons from a jazz festival
- **Wed – 10:30: Monika Zakrzewska** (Principle Analyst, Geospatial Integrity)
 - Several geospatial integrity challenges are on the verge of resolution, aren't they?

OSDU

- **Tues – 12:30: Jonas Hedström** (Manager Subsurface)
 - Equinor's seismic journey to OSDU® Data Platform, part II
- **Wed – 08:30: Mohammed Ali** (Principal Data Engineer Architect) & **Jon Olav Abeland** (Microsoft)

Establishing Trust in OSDU Data: Referential Integrity, Schema Validation, and AI-Driven Quality Rules in a Lakehouse Architecture

Data Workflow

- **Tues – 12:30: Bjarne Bøklepp** (Manager Data Analytics and Management)
 - Ensuring Cross-Domain Interoperability: Addressing Measured Depth Quality and Processing Challenges in Subsurface Data
- **Tues – 14:30: Thomas Sveinsvoll Greig** (Product Owner Data Fundamentals) & **Urszula Wolak** (Product Owner Well Log Team)
 - Enterprise Log Storage - A well log solution containing resampled and prepared Well Logs for analysis, with a strong emphasis on performance!

Regulatory/Information Management

- **Tues 13:30: Sun Maria Lehman** (Digital Project Manager)
 - Data Management for a Stable and Strategic Energy Future
- **Tues 16:30: Gøril Mellem** (Project Leader DRS) & **Sarah Angell-Petersen** (Lead Petrophysicist)
 - Data reporting standardization – making compliant reporting easy!
- **Wed 10:30: Bent S Lund** (Team Leader LCI Solutions) & **Jan Fredrik Drabløs** (System Manager STID)
 - Building the digital asset

Plenary

- **Tues – 09:20: Ryan Jarvis** (RockNRG) & **Bjarne Bøklepp** (Manager Data Analytics and Management)
 - Establishing the foundational Trusted Data Ecosystem... (plenary) - Ryan Jarvis, CTO, RockNRG LLC - co-presenter
- **Tues – 10:15: Winfried Etzel** (Data Governance Professional)
 - Data Governance is at a crossroads



Building the digital asset

Bent S. Lund & Jan Fredrik Drabløs

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