

# Customer Projects

**Leander Steynberg**

Process Engineering Manager

**Proxa Water**

**Caleb Hillier**

HOD: Business Development

**Devcotech**



**Dirk Brand**

Head of Engineering

**Döhler South Africa**

**Tiaan van As**

Control System Engineer

**Integ**



# Customer Projects

**Leander Steynberg**

Process Engineering Manager

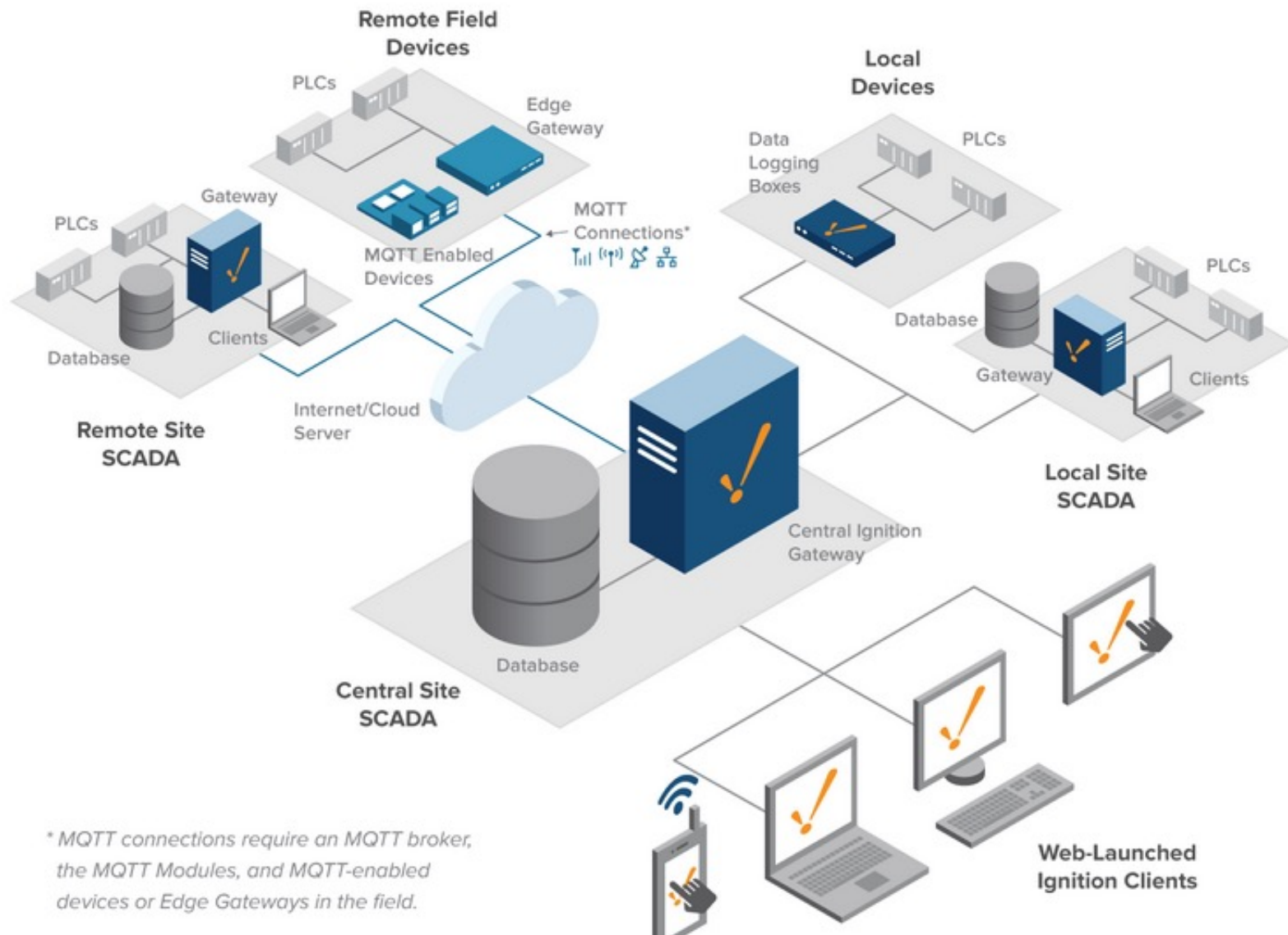
**Proxa Water**

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\* MQTT connections require an MQTT broker, the MQTT Modules, and MQTT-enabled devices or Edge Gateways in the field.

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### Architecture

**Gateway | Ignition-PRX-JHB-SVR-006**  
 Version: 8.1.28 (b2023060110)  
 License: licensed  
 Uptime: 17 days  
 3% cpu  
 2.7 gb

**No Redundancy**  
 Add a redundant backup gateway to protect your system from downtime caused by failures.

Gateway Network

Active Connections	Remote Gateways	Bytes Sent /sec	Bytes Received /sec
1 / 1	1	1 KB	14 KB

### Connections

**Databases**  
 14 / 14 connected

**Designer Sessions**  
 0 open

**Devices**  
 21 enabled

**Gateway Network Connections**  
 1 / 1 connections

**OPC Connections**  
 3 / 4 connected

**Store & Forward**  
 0 stores quarantined

**Vision Clients**  
 24 open

### Environment

Process Id	3064
Operating System	Windows Server 2016   amd64
Java Version	11.0.18+10-LTS
Local Time	13:40:34
Available Disk Space	123gb / 649gb
Detected NICs	172.16.2.140

### Systems

Alarm Pipelines	0 / 6 active
Modules	14 installed
Performance	3% CPU   2807mb
Redundancy	Not configured
Reports	2 scheduled
Tags	342 693 tags

### Diagnostics

[Generate Diagnostic Bundle](#)

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[Licensing Configuration](#)

Running Modules

14 / 14

Licensed Modules

14 / 14

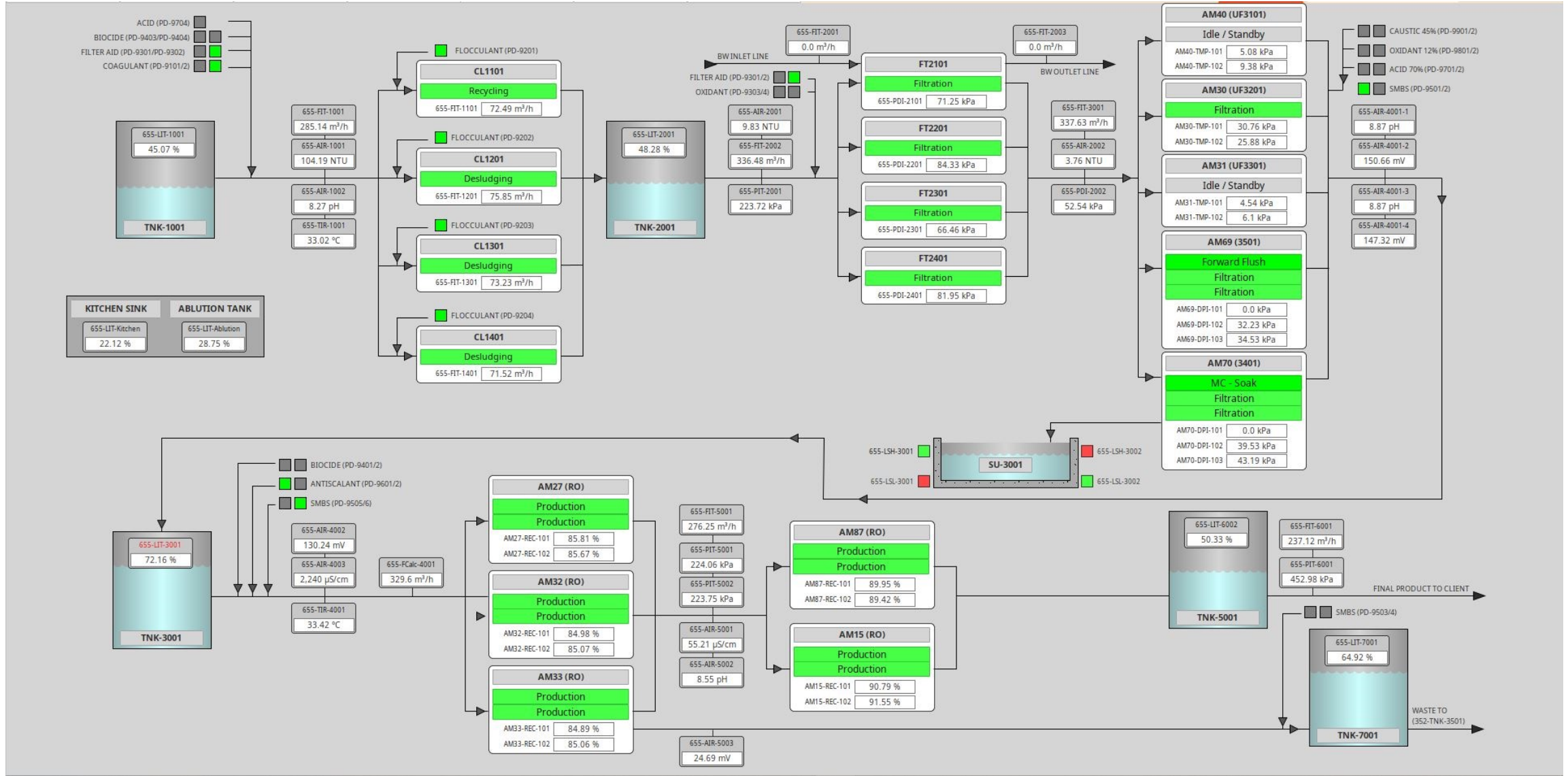
License Details	
License Key	
Version	8
edition	standard
platform	true

### Inductive Automation, LLC

Name	Version	License	Status
Alarm Notification	6.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
Allen-Bradley Driver	6.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
Logix Driver	5.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
Modbus Driver	7.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
OPC-UA	9.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
Reporting	6.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
SQL Bridge	10.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
Siemens Drivers	6.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
Symbol Factory	7.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>LOADED</b>
Tag Historian	4.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
UDP and TCP Drivers	6.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
Vision	11.1.28 (b2023060110)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>

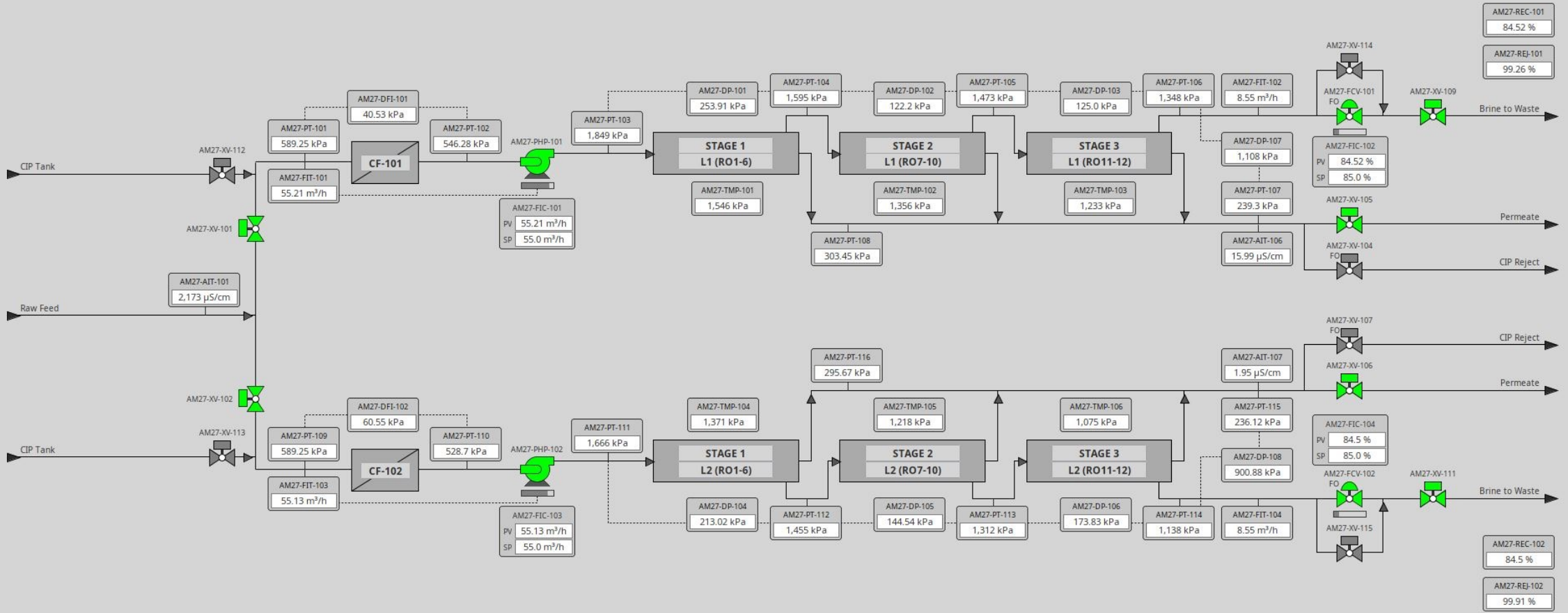
### Cirrus Link Solutions LLC

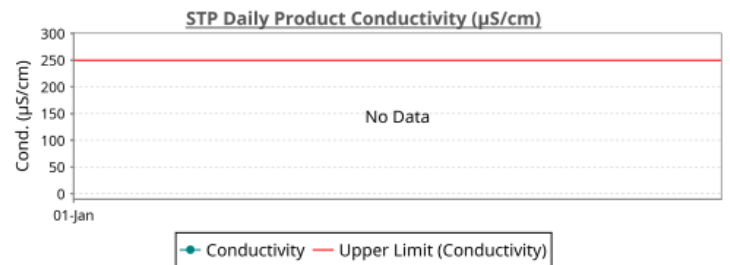
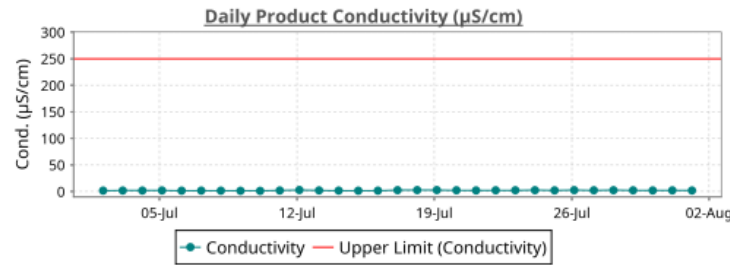
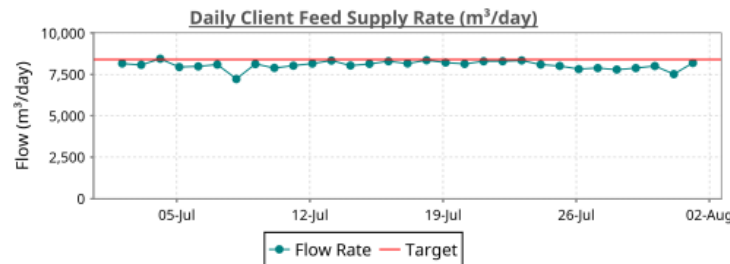
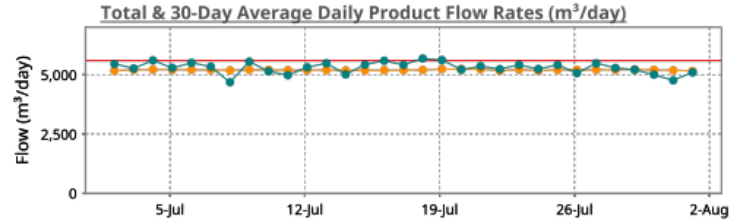
Name	Version	License	Status
MQTT Distributor	4.0.18 (b2023081122)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>
MQTT Engine	4.0.18 (b2023081122)	Activated <a href="#">Q</a>	✓ <b>RUNNING</b>



Control  
Setpoint  
Recipe

	Step Name	Sub Step Name	Time Remain		
Train 1	Production	Production	0 s	T1 - Interlocks	T1 - Normalization Calcs
Train 2	Production	Production	0 s	T2 - Interlocks	T2 - Normalization Calcs





**PRODUCTION REPORT**



Start Date (From 03:00): Aug 1, 2023  
 End Date (Until 03:00): Aug 2, 2023  
 Start Date (30-Day): Jul 2, 2023  
 End Date (30-Day): Aug 2, 2023

**Process Volumes**  
Daily Accumulated Flow

Parameter	Actual	Target	Unit
<b>30-Day Average:</b>			
Total Product	5156	5616	m <sup>3</sup> /day
Combined Waste	2886	2784	m <sup>3</sup> /day
Plant Recovery	64	67	%
<b>Daily Total:</b>			
Total Raw Feed	8190	8400	m <sup>3</sup> /day
Total Product	5102	5616	m <sup>3</sup> /day
STP	0		m <sup>3</sup> /day
U44	5102		m <sup>3</sup> /day
Total Waste	2948	2784	m <sup>3</sup> /day
Plant Recovery	62	67	%

**Quality**  
Daily Quality Parameters

Parameter	Min	Max	Avg	Spec	Unit
<b>Raw Feed:</b>					
Turbidity	21	179	74	< 250	NTU
30-Day Average	68.1	96.2	69.2		NTU
pH	8.1	8.2	8.1	< 9	pH
Temperature	28.5	30.2	29.5	< 35	°C
<b>Waste:</b>					
pH	9.4	10.0	9.7	4 - 10	pH
<b>Final Product:</b>					
pH	7.1	8.7	8.1		pH
STP	<NA>	<NA>	<NA>	5.5 - 9.5	pH
U44	7.1	8.4	8.1	7 - 9.5	pH
Conductivity	1.6	2.7	2.1		µS/cm
STP	<NA>	<NA>	<NA>	0 - 250	µS/cm
U44	1.6	2.7	2.1	0 - 10	µS/cm
TOC	0.4	1.0	0.6	< 2	mg/L



# Customer Projects



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Head of Engineering  
Döhler South Africa

**Tiaan van As**

Control System Engineer  
Integ

STU\_01\_12\_01

Recipe Status Batch Size  
STU\_01\_12\_01\_1697450905115\_5 Step CIP IDLE

History    Batch List    Procedure

Start Date End Date  
09/01/2023 12:15 10/16/2023 12:15

Filter table...

Batch ID	RecipeName	timestamp
STU_01_12_01_1695192369443_CIP_3_Step	CIP_3_Step	09/20/2023 08:46:09
STU_01_12_01_1695284974533_CIP_3_Step	CIP_3_Step	09/21/2023 10:29:34
STU_01_12_01_1695381949681_3_Step	3 Step	09/22/2023 13:25:49
STU_01_12_01_1695734412976_3_Step	3 Step	09/26/2023 15:20:12
STU_01_12_01_1695735020981_3_Step	3 Step	09/26/2023 15:30:20
STU_01_12_01_1695735308365_3_Step	3 Step	09/26/2023 15:35:08
STU_01_12_01_1695735972672_3_Step	3 Step	09/26/2023 15:46:12
STU_01_12_01_1695736250877_3_Step	3 Step	09/26/2023 15:50:50

EBR Viewer

Procedure - 3 Step

Batch ID: STU\_01\_12\_01\_1695381949681\_3 Step  
 Batch Name: 3 Step  
 Began: Sep 22, 2023, 1:27:46 PM  
 Ended: Sep 22, 2023, 3:18:43 PM

Batch Parameters

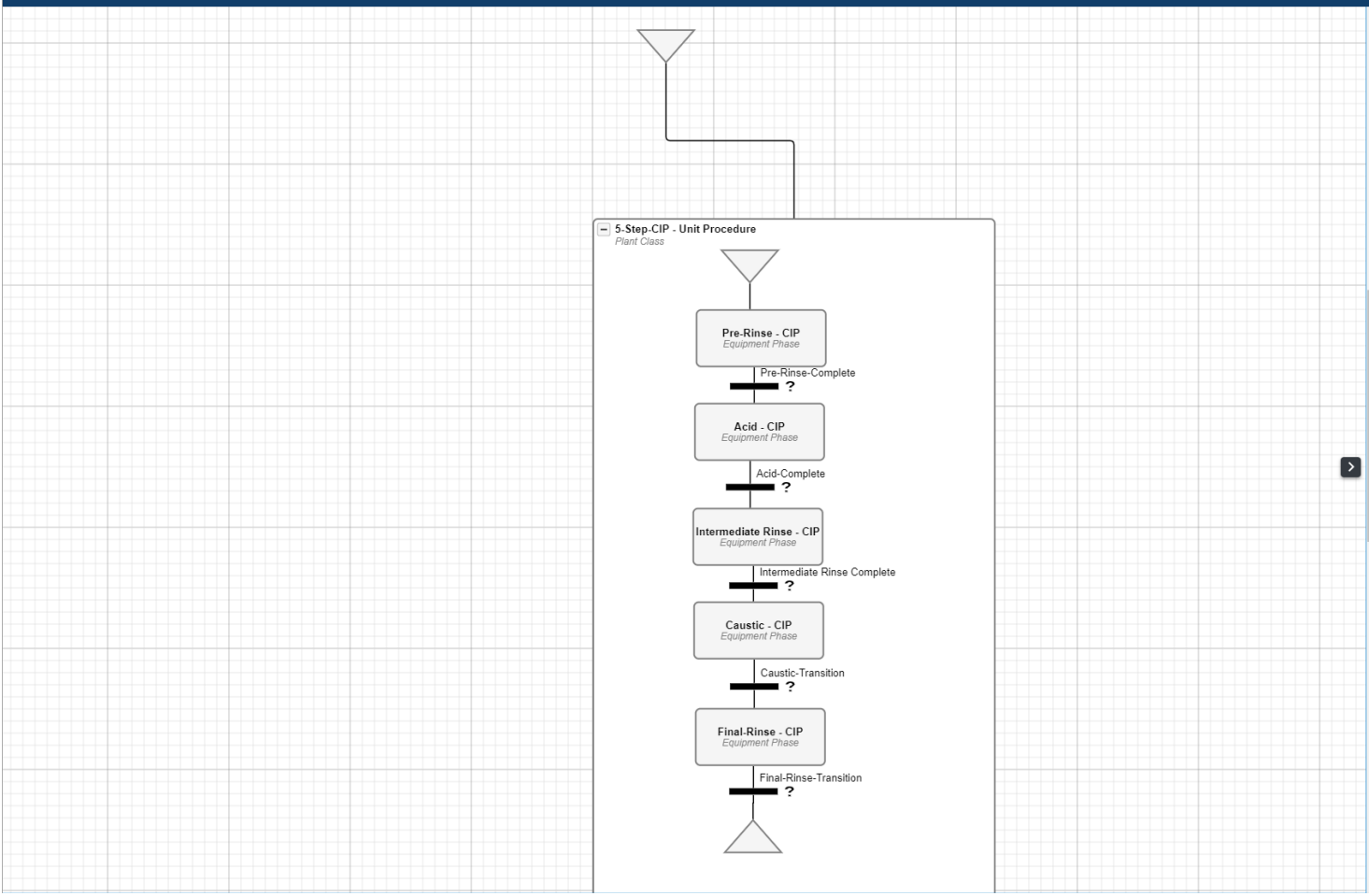
Name	Value	TimeStamp
State	Running	2023-09-22 13:27:46.63
Batch_Name	3 Step	2023-09-22 13:27:46.63
Recipe_Name	3 Step	2023-09-22 13:27:46.63
Batch_Scale	1	2023-09-22 13:27:46.63
Batch_Quantity	1	2023-09-22 13:27:46.63
Mode	Auto	2023-09-22 13:27:46.63
Recipe_Version	58	2023-09-22 13:27:46.63
Begin_Date_Time	Sep 22, 2023, 1:27:46 PM	2023-09-22 13:27:46.63
Batch_ID	STU_01_12_01_1695381949681_3 Step	2023-09-22 13:27:46.63
Batch_Name	3 Step	2023-09-22 14:36:30.743
State	Restarting	2023-09-22 14:36:30.743
State	Running	2023-09-22 14:36:30.743
Batch_ID	STU_01_12_01_1695381949681_3 Step	2023-09-22 14:36:30.743
Recipe_Name	3 Step	2023-09-22 14:36:30.743
Batch_Scale	1	2023-09-22 14:36:30.743
Batch_Quantity	1	2023-09-22 14:36:30.743
Recipe_Version	58	2023-09-22 14:36:30.743
Mode	Auto	2023-09-22 14:36:30.745
Begin_Date_Time	Sep 22, 2023, 2:36:30 PM	2023-09-22 14:36:30.745
State	Restarting	2023-09-22 15:17:42.581
State	Running	2023-09-22 15:17:42.582
Recipe_Version	58	2023-09-22 15:17:42.583
Batch_ID	STU_01_12_01_1695381949681_3 Step	2023-09-22 15:17:42.583
Batch_Scale	1	2023-09-22 15:17:42.583
Batch_Quantity	1	2023-09-22 15:17:42.583
Recipe_Name	3 Step	2023-09-22 15:17:42.583

STU\_01\_12\_01

Recipe: STU\_01\_12\_01\_1697450905115\_5 Step CIP  
Status: IDLE  
Batch Size:

History Batch List Procedure

Batch Recipe Monitor Sequence Phase Control



Recipe Name: 5 Step CIP

Mode: Auto

**Procedure Parameters**

- Batch\_ID:
- Batch\_Name:
- Batch\_Quantity:
- Batch\_Scale:
- Begin\_Date\_Time:
- Command: NONE
- Command\_Number:
- Duration:
- End\_Date\_Time:
- Mode: Auto
- Recipe\_Name:
- Recipe\_Version: Idle
- State: Idle
- State\_Number:

SYNC PHASE AND BATCH CONTROL

**CIP**

State: Interlocked

Time: 0s

Info: [Play] [Pause] [Stop] [Refresh]

**Agitate**

State: Idle

Time: 0s

Info: [Play] [Pause] [Stop] [Refresh]



Döhler Paarl

🔔 12

Zone 1: Bulk Storage

🔔 4

Supervisory

Mimic

Detail



STU\_01\_01\_01

STATUS	Ready
MATERIAL	2.95053.011 - APPLE FLAVOUR NAT/KAN/5KG

Receiving 1

Receiving 2

🔔 2

Bulk Storage Tanks Row 1

🔔 2

Bulk Storage Tanks Row 2

Bulk Storage Tanks Row 3

Bulk Storage Tanks Row 4

### STU\_01\_12\_01

STATUS Ready

MATERIAL 2.95053.011 - APPLE FLAVOUR NAT/KAN/5KG

QC -

**01-TNK-006**  
BULK STORAGE TANK 6

LEVEL 0,0 L

AVAILABLE In

AGITATE Idle

**CIP Interlocked**

FILL Idle

FLUSH Idle

TRANSFER Idle

**TXIN Interlocked**

**TXOUT Interlocked**

### STU\_01\_12\_02

STATUS Ready

MATERIAL -

QC -

**01-TNK-007**  
BULK STORAGE TANK 7

LEVEL 0,0 L

AVAILABLE In

AGITATE Idle

**CIP Interlocked**

FILL Idle

FLUSH Idle

TRANSFER Idle

TXIN Idle

**TXOUT Interlocked**

### STU\_01\_12\_03

STATUS Ready

MATERIAL 2.07014.013 - APPLE-FLAVOURING/KAN/5KG

QC -

**01-TNK-008**  
BULK STORAGE TANK 8

LEVEL 0,0 L

AVAILABLE In

AGITATE Idle

**CIP Interlocked**

FILL Idle

FLUSH Idle

TRANSFER Idle

TXIN Idle

**TXOUT Interlocked**

### STU\_01\_12\_04

STATUS Ready

MATERIAL 2.07014.013 - APPLE-FLAVOURING/KAN/5KG

QC -

**01-TNK-009**  
BULK STORAGE TANK 9

LEVEL 0,0 L

AVAILABLE In

AGITATE Idle

**CIP Interlocked**

FILL Idle

FLUSH Idle

TRANSFER Idle

TXIN Idle

**TXOUT Interlocked**

### STU\_01\_12\_05

STATUS Ready

MATERIAL -

QC -

**01-TNK-010**  
BULK STORAGE TANK 10

LEVEL 0,0 L

AVAILABLE In

AGITATE Idle

**CIP Interlocked**

FILL Idle

FLUSH Idle

TRANSFER Idle

TXIN Idle

**TXOUT Interlocked**

PC

PC\_01\_12

### STU\_01\_12\_07

STATUS Ready

MATERIAL -

**CIP Interlocked**

### STU\_01\_12\_06

STATUS Ready

MATERIAL -

**CIP Interlocked**

1	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div> <p><b>Previous Material</b></p> <p><input type="radio"/> Water</p> <p><input type="radio"/> Acid</p> <p><input type="radio"/> Caustic</p> </div> <div> <p><b>Current Material</b></p> <p><input type="radio"/> Sterilant</p> <p><input checked="" type="radio"/> Other</p> </div> </div> </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div> <p><b>Current Material</b></p> <p><input type="radio"/> Water</p> <p><input type="radio"/> Acid</p> <p><input type="radio"/> Caustic</p> </div> <div> <p><b>Current Material</b></p> <p><input type="radio"/> Sterilant</p> <p><input checked="" type="radio"/> Other</p> </div> </div> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Interface</b></p> <p><input type="radio"/> Flow</p> <p>0,0mS &gt; 0,0mS</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Cleaning</b> <input checked="" type="checkbox"/></p> <p>00:00</p> <p><input type="radio"/> Flow</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Return</b></p> <p><input type="radio"/> Idle</p> </div>
2	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div> <p><b>Previous Material</b></p> <p><input type="radio"/> Water</p> <p><input type="radio"/> Acid</p> <p><input type="radio"/> Caustic</p> </div> <div> <p><b>Current Material</b></p> <p><input type="radio"/> Sterilant</p> <p><input checked="" type="radio"/> Other</p> </div> </div> </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div> <p><b>Current Material</b></p> <p><input type="radio"/> Water</p> <p><input type="radio"/> Acid</p> <p><input type="radio"/> Caustic</p> </div> <div> <p><b>Current Material</b></p> <p><input type="radio"/> Sterilant</p> <p><input checked="" type="radio"/> Other</p> </div> </div> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Interface</b></p> <p><input type="radio"/> Flow</p> <p>0,0mS &gt; 0,0mS</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Cleaning</b> <input checked="" type="checkbox"/></p> <p>00:00</p> <p><input type="radio"/> Flow</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Return</b></p> <p><input type="radio"/> Idle</p> </div>
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4	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div> <p><b>Previous Material</b></p> <p><input type="radio"/> Water</p> <p><input type="radio"/> Acid</p> <p><input type="radio"/> Caustic</p> </div> <div> <p><b>Current Material</b></p> <p><input type="radio"/> Sterilant</p> <p><input checked="" type="radio"/> Other</p> </div> </div> </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div> <p><b>Current Material</b></p> <p><input type="radio"/> Water</p> <p><input type="radio"/> Acid</p> <p><input type="radio"/> Caustic</p> </div> <div> <p><b>Current Material</b></p> <p><input type="radio"/> Sterilant</p> <p><input checked="" type="radio"/> Other</p> </div> </div> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Interface</b></p> <p><input type="radio"/> Flow</p> <p>0,0mS &gt; 0,0mS</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Cleaning</b> <input checked="" type="checkbox"/></p> <p>00:00</p> <p><input type="radio"/> Flow</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Return</b></p> <p><input type="radio"/> Idle</p> </div>

Final Rinse

Make-Up

✓

▶

⏸

🔊

Filling

✓

▶

⏸

🔊

90

Acid

Make-Up

✗

▶

⏸

🔊

Filling

✓

▶

⏸

🔊

100

Circulation

✗

▶

⏸

🔊

100

Heating

✗

▶

⏸

🔊

35

Dosing

✗

▶

⏸

🔊

22

Caustic

Make-Up

✗

▶

⏸

🔊

Filling

✓

▶

⏸

🔊

100

Circulation

✗

▶

⏸

🔊

100

Heating

✗

▶

⏸

🔊

35

Dosing

✗

▶

⏸

🔊

14

Initial Rinse

Make-Up

✓

▶

⏸

🔊

Filling

✓

▶

⏸

🔊

90

# Customer Projects

**Leander Steynberg**

Process Engineering Manager

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**Caleb Hillier**

HOD: Business Development

**Devcotech**

**proxa**  
future focused

**devcotech**  
electrical engineering

**Dirk Brand**

Head of Engineering

**Döhler South Africa**

**Tiaan van As**

Control System Engineer

**Integ**

**DÖHLER** **integ**  
System Integrators