



PASS SCADA AND MANAGEMENT LÓRÁNT HORVÁTH

Digitalization in the Oil and Gas Industry Challenges & Opportunities

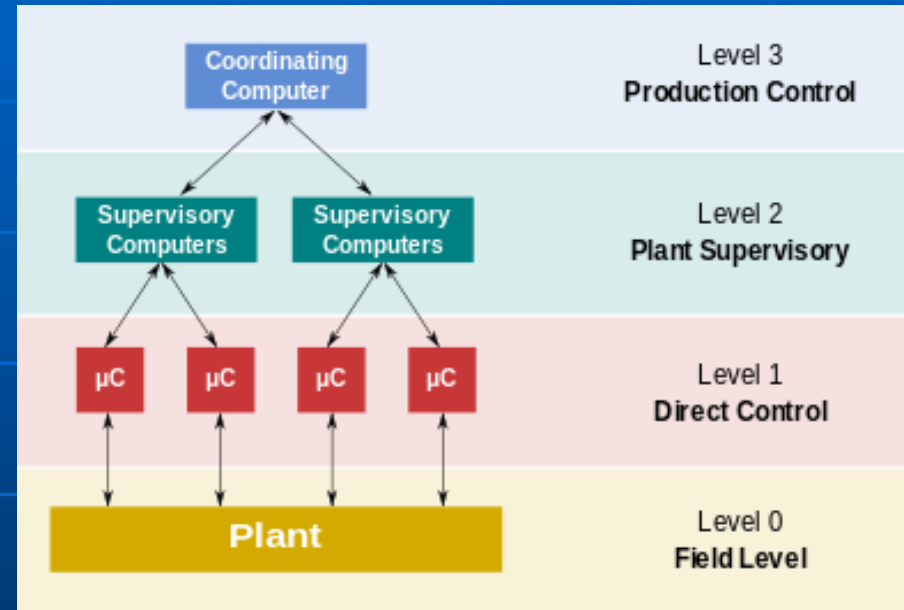
Workshop

15-16 November 2018, Visegrád

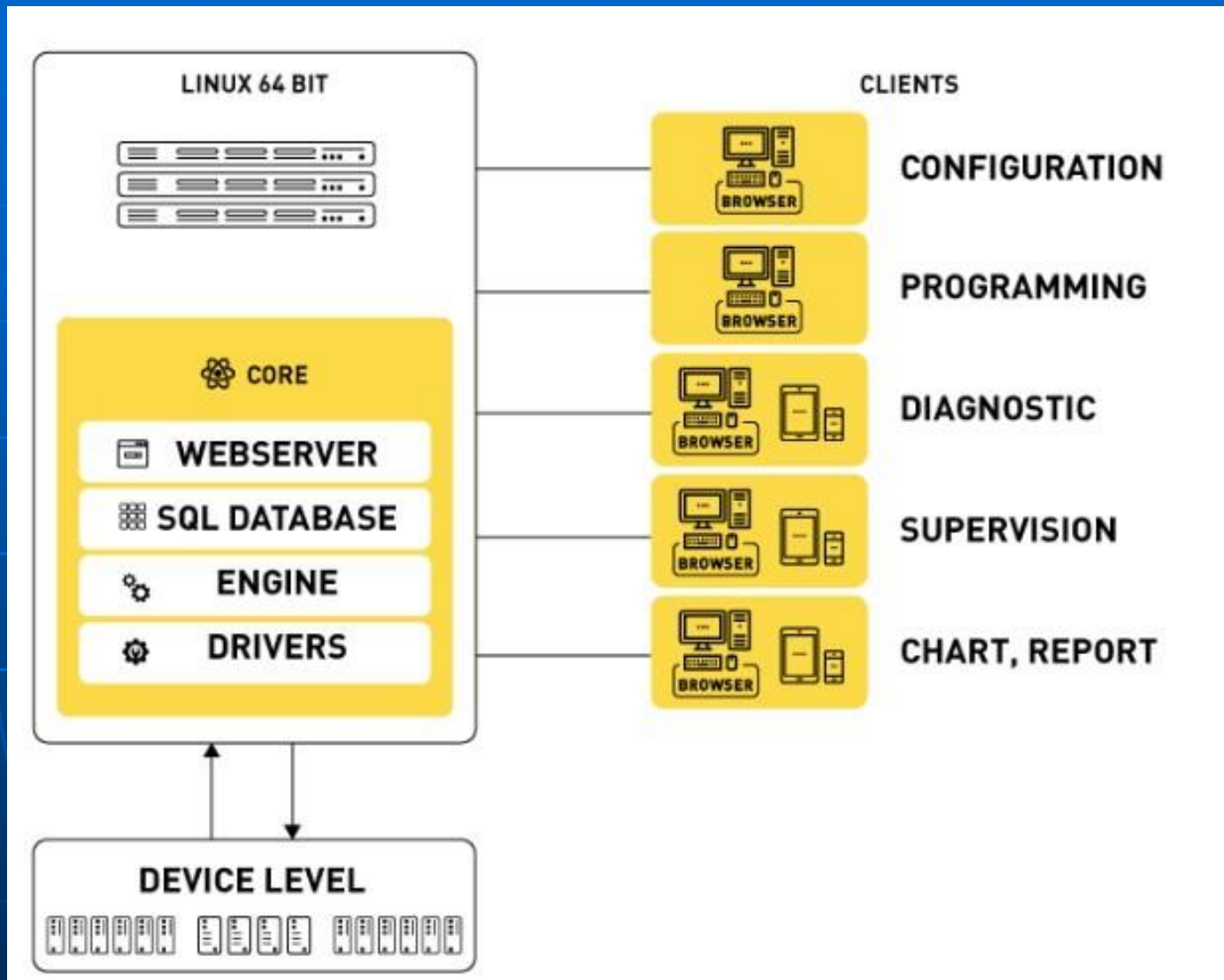
Society of Petroleum Engineers

PASS SCADA AND MANAGEMENT

- SUPERVISORY CONTROL AND DATA ACQUISITION
- LEVEL 0 – ACTUATORS, VALVES, PUMPS
- LEVEL 1 – PLC
- LEVEL 2 – SCADA COMPUTERS
- LEVEL 3 – MANAGEMENT LEVEL SCADA SYSTEM

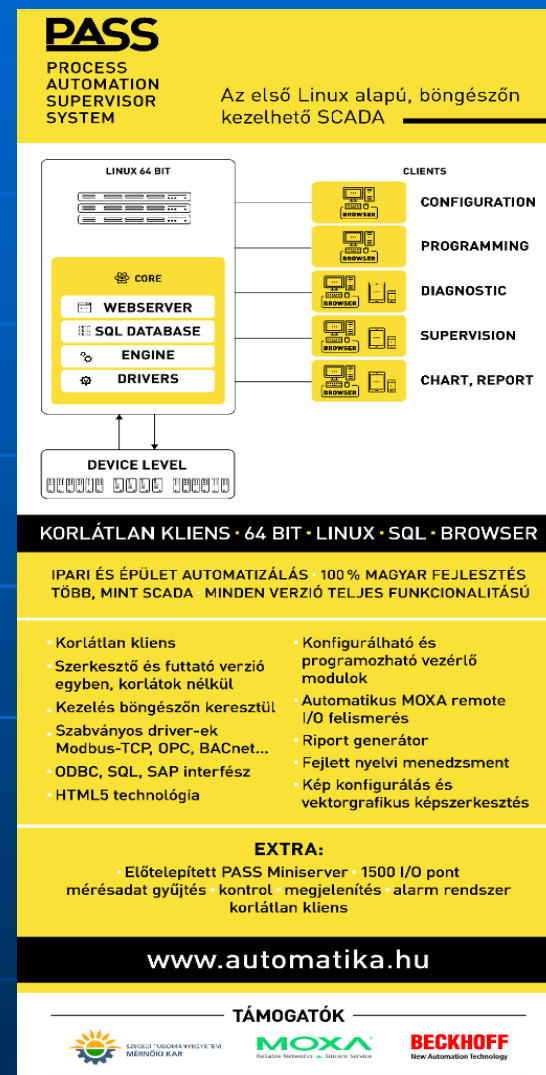


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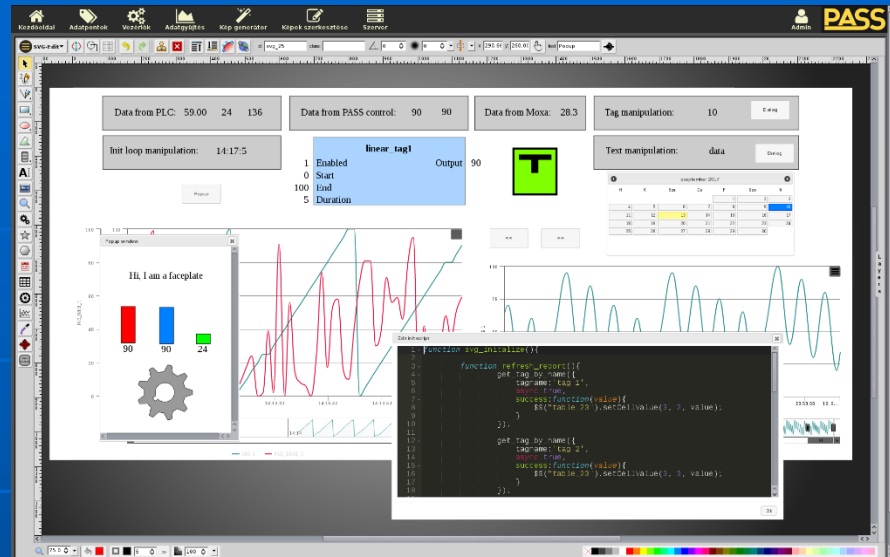
- UNLIMITED CLIENT NUMBER, BROWSER HANDLED WITHOUT PLUGINS
- PROGRAMMABLE AND CONFIGURABLE MODULES
- ADVANCED LANGUAGE MANAGEMENT
- PICTURE CONFIGURATING, VECTORGRAPHIC EDITING
- BUILT-IN JAVASCRIPT EDITOR
- BUILT-IN REPORT EDITOR
- CLIENT APPLICATION FOR IOS AND ANDROID



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VECTORGRAPHIC PICTURE EDITOR

- VECTORGRAPHIC DRAWING
- DINAMIC ELEMENTS
- DIAGRAM, CALENDAR, CHART ELEMENTS
- MONITORING CONTROL BLOCKS
- ...



JAVASCRIPT EDITOR

- TAG MANIPULATING
- MANIPULATING PICTURE ELEMENTS
- HANDLING SQL DATA
- RIPOUT HANDLING
- ...

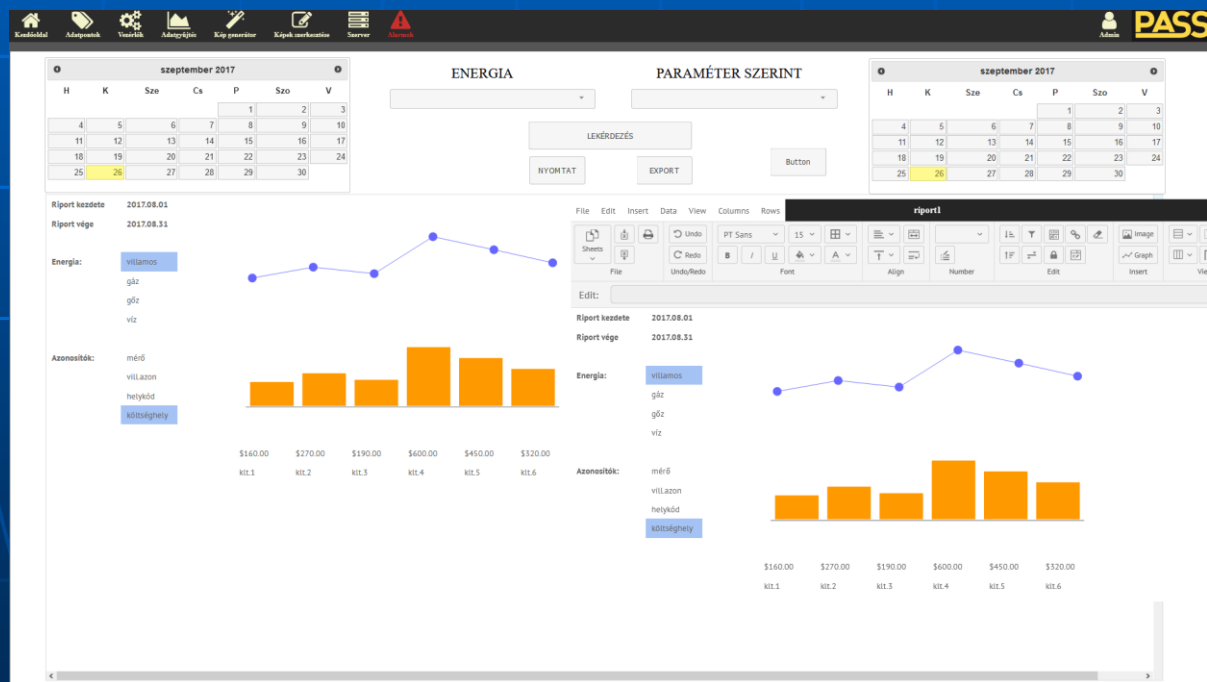
```
Edit init script

1- function svg_initialize(){
2-
3-     function refresh_report(){
4-         get_tag_by_name({
5-             tagname: 'tag 1',
6-             async: true,
7-             success: function(value){
8-                 $$("table_23").setCellValue(3, 2, value);
9-             }
10-        });
11-
12-         get_tag_by_name({
13-             tagname: 'tag 2',
14-             async: true,
15-             success: function(value){
16-                 $$("table_23").setCellValue(3, 3, value);
17-             }
18-        });
19-
20-         get_tag_by_name({
21-             tagname: 'plc_data_1',
22-             async: true,
23-             success: function(value){
24-                 $$("table_23").setCellValue(3, 4, value);
25-             }
26-        });
27-     }
28- }
29-
30- refresh_report();
```

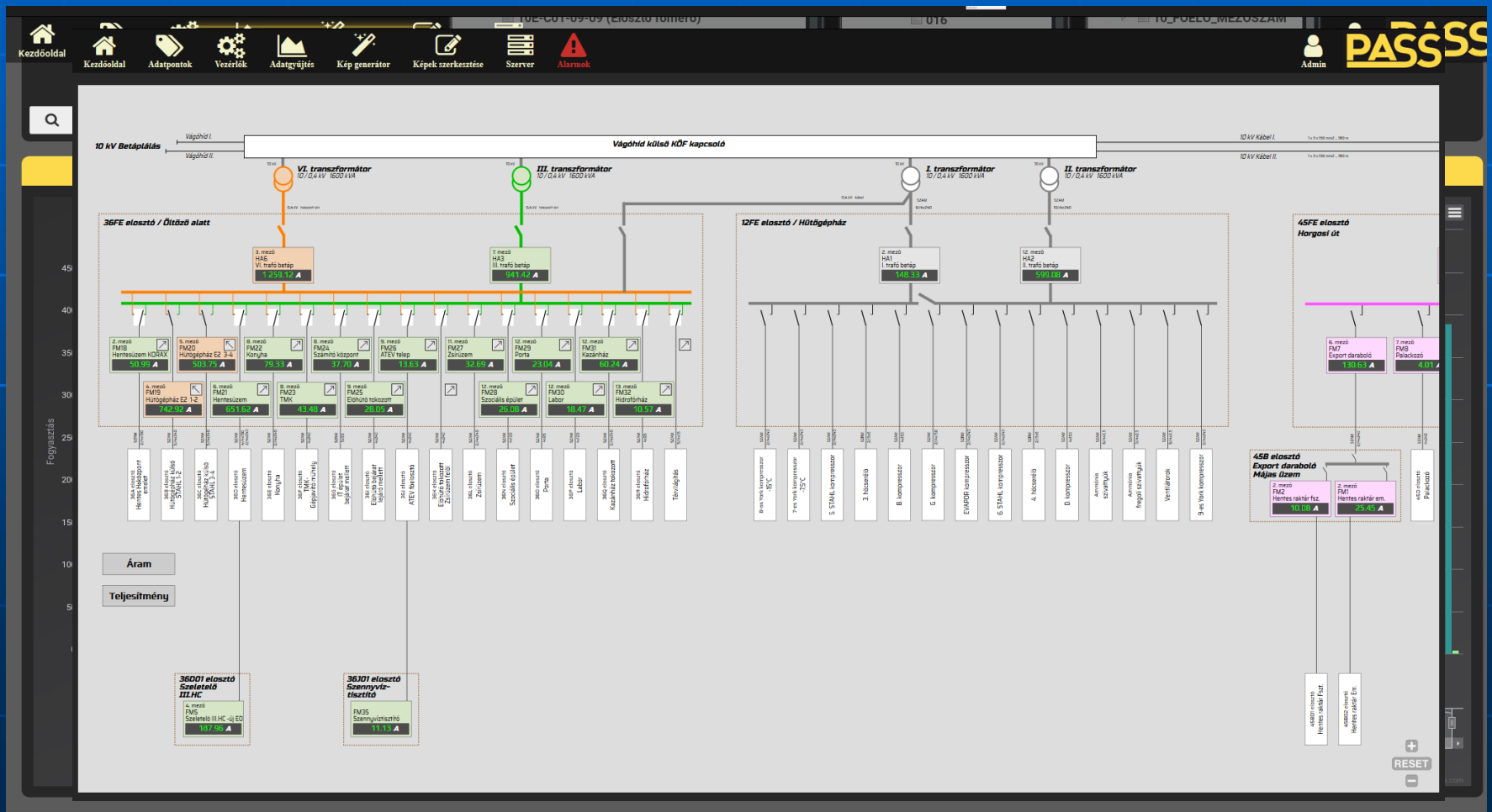
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INTEGRATED REPORT EDITOR

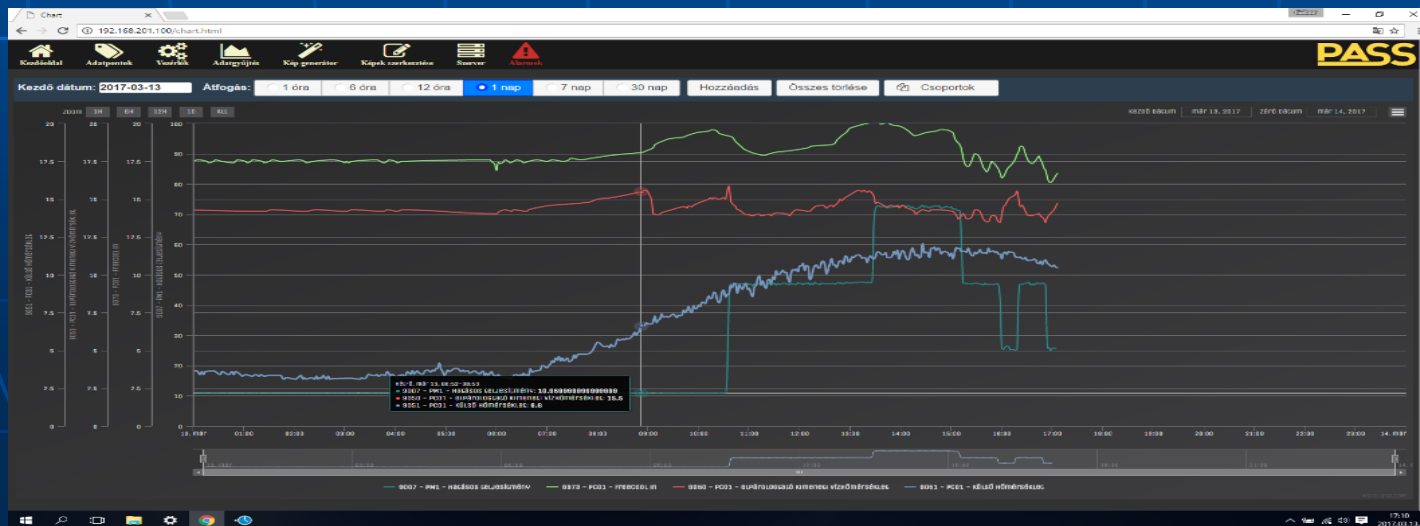
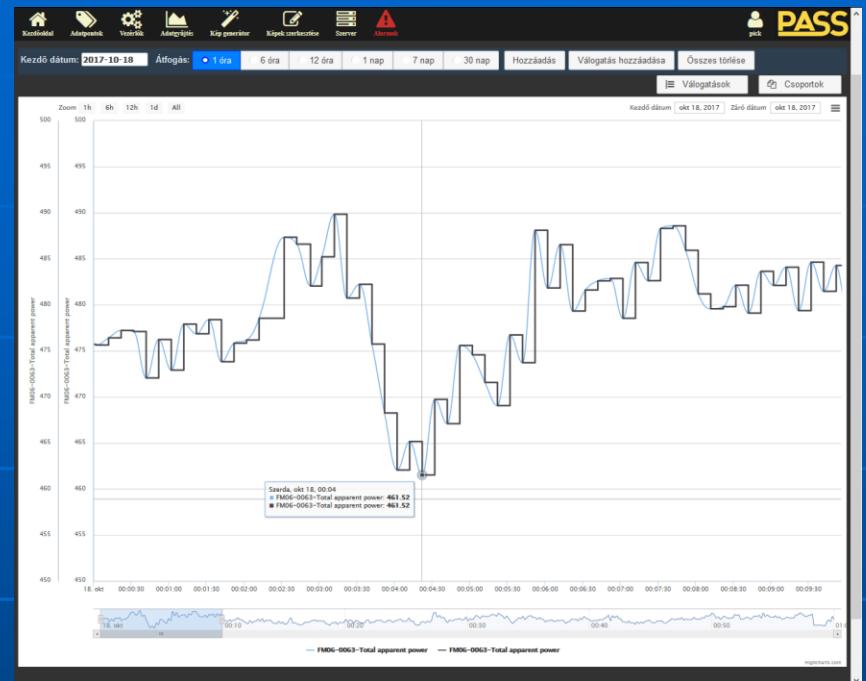
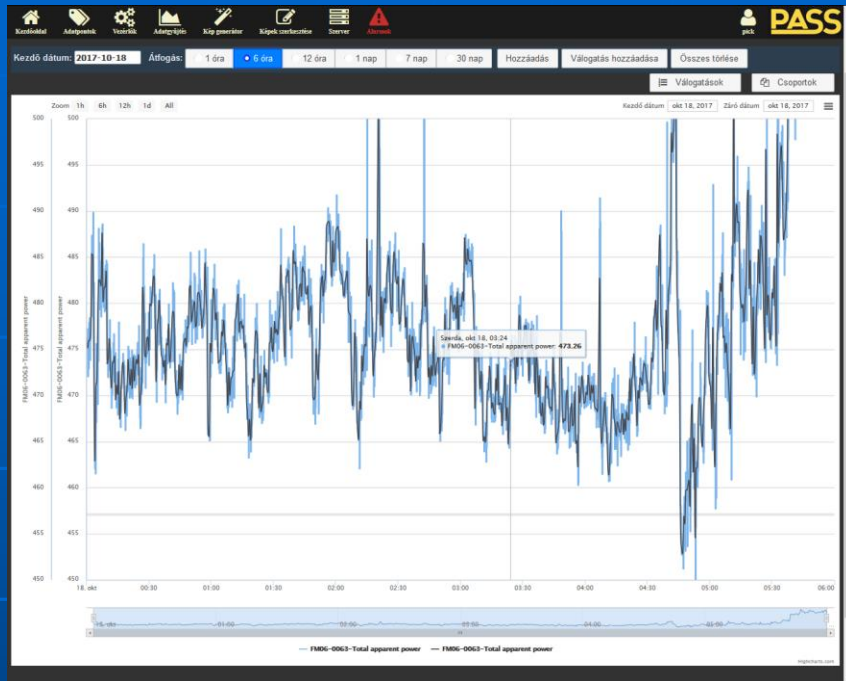
- REPORT FORMAT EXCEL LOOK LIKE INTERFACE
- PREPARED REPORT MULTIPLE TIME USAGE
- DIAGRAM ELEMENTS
- ...



MEASURING, MONITORING ENERGY
PREDICT CONSUMPTION
PEAK VALUE TRACKING
REPORTS
MANAGEMENT FUNCTIONS



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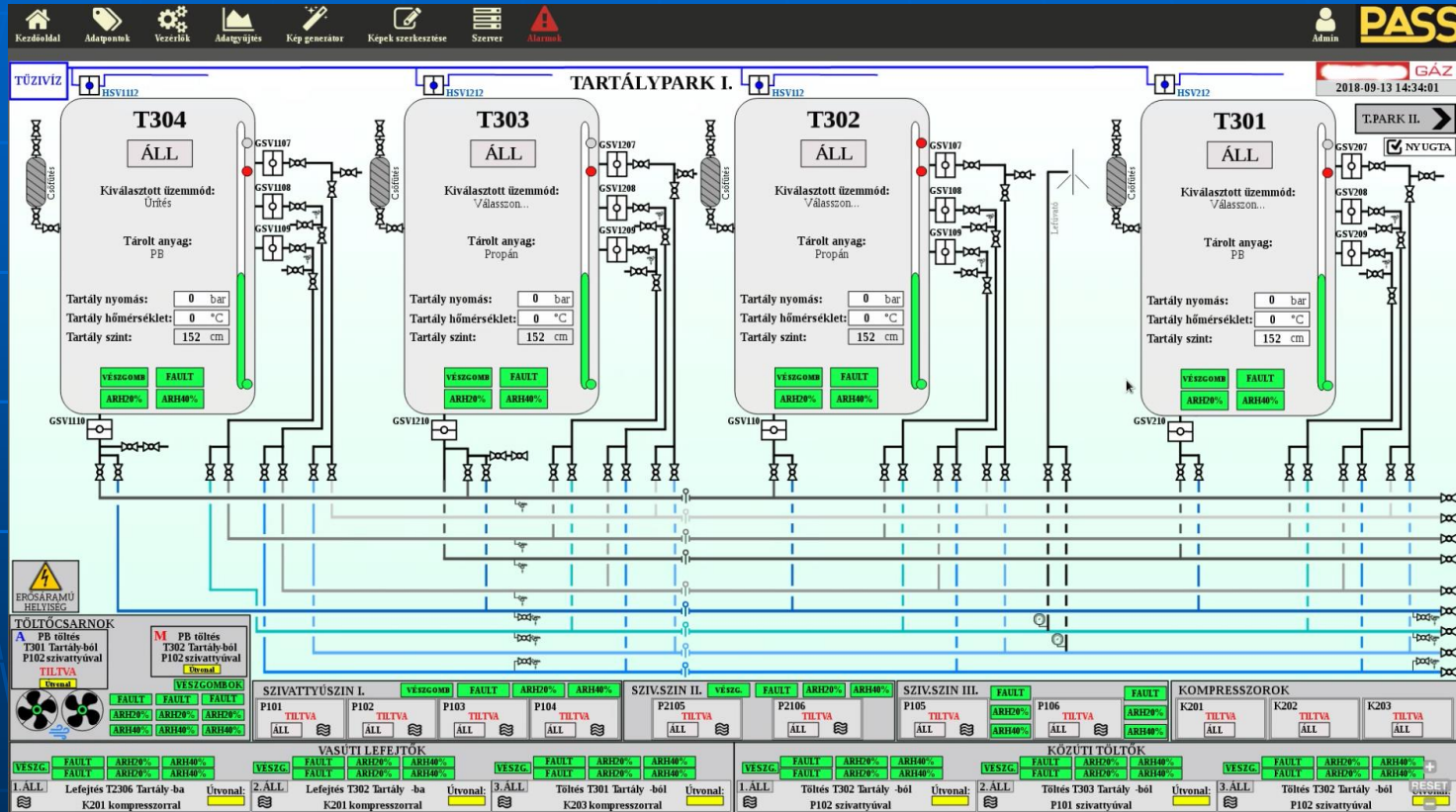


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Gas plant supervisory system

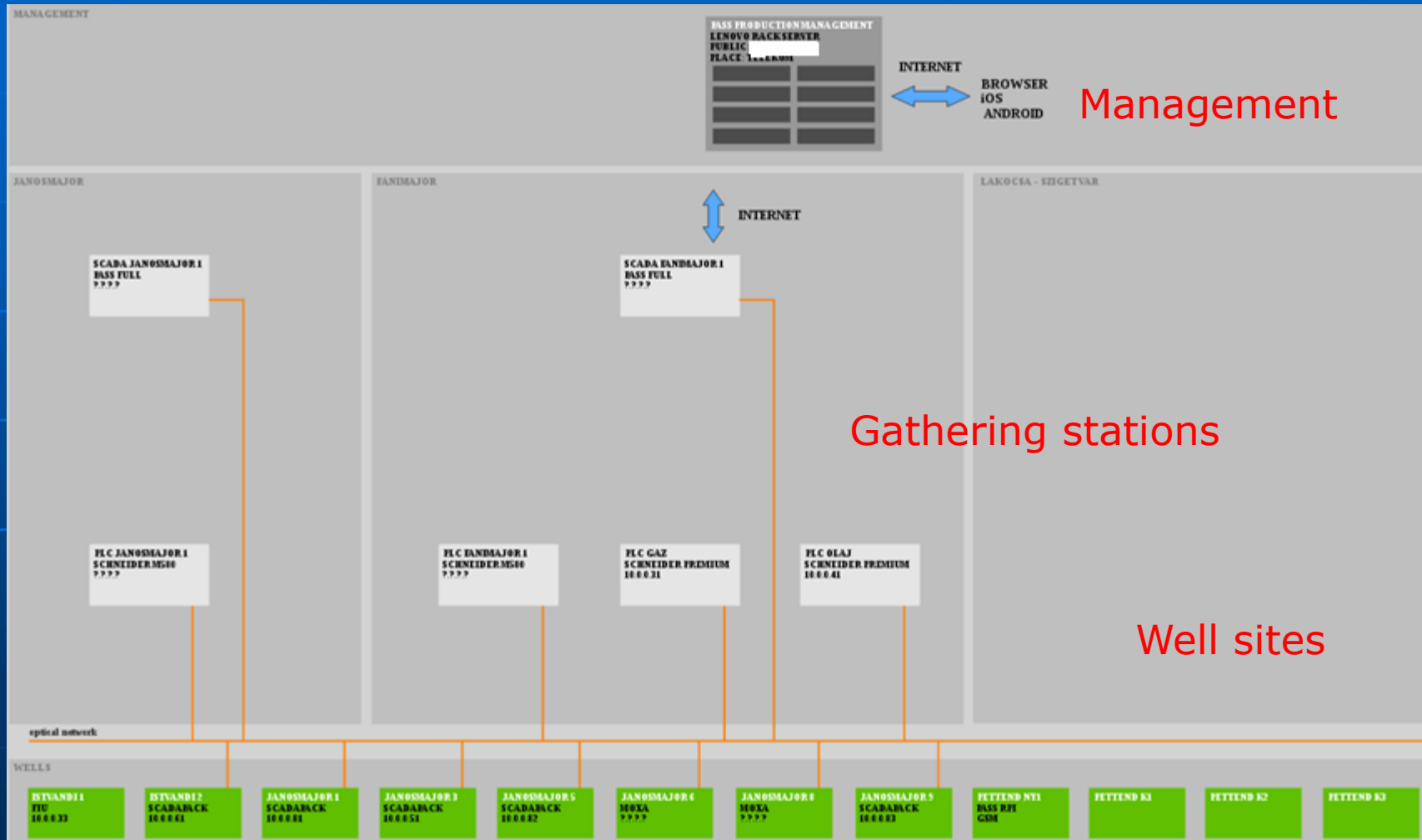
4 PLC

1000 I/O point



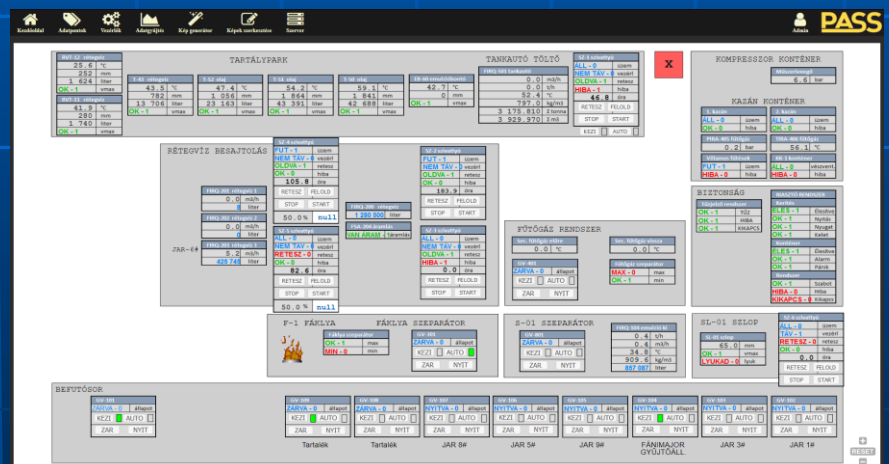
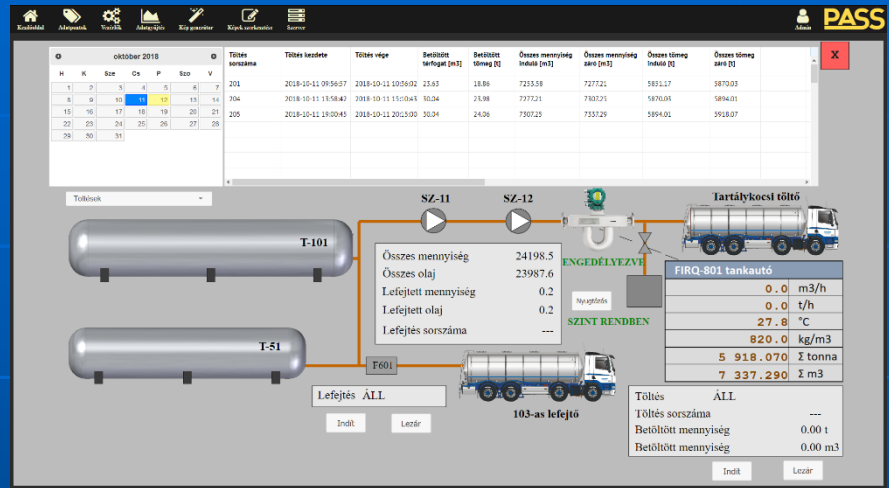
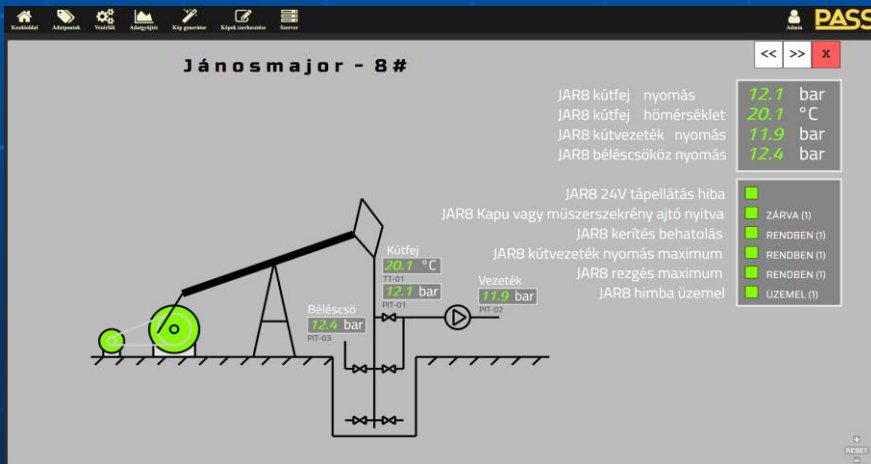
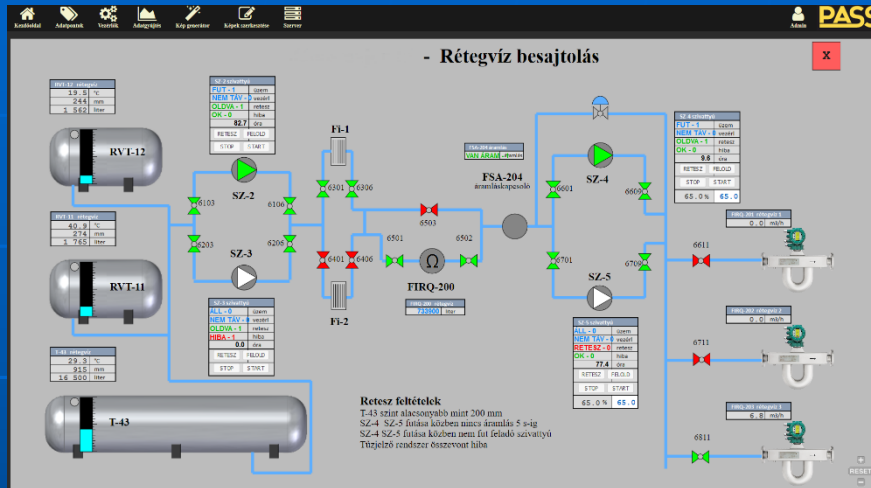
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Oil extraction



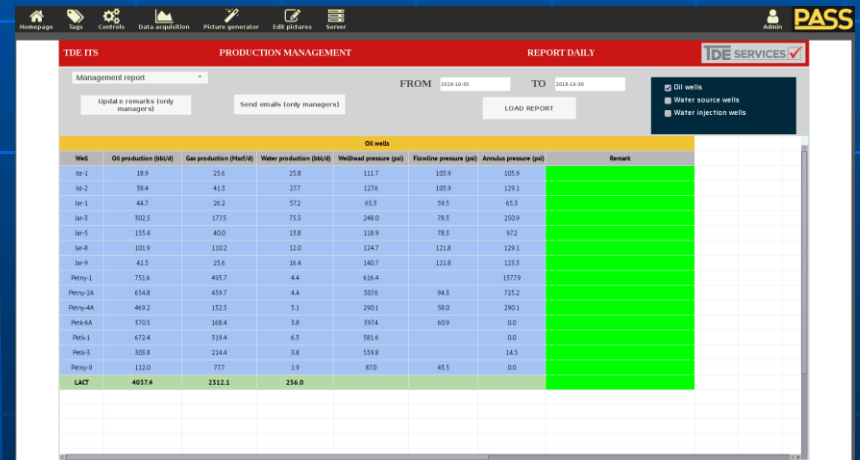
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Oil extraction Scada level



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Oil extraction Management level



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Oil extraction Management level

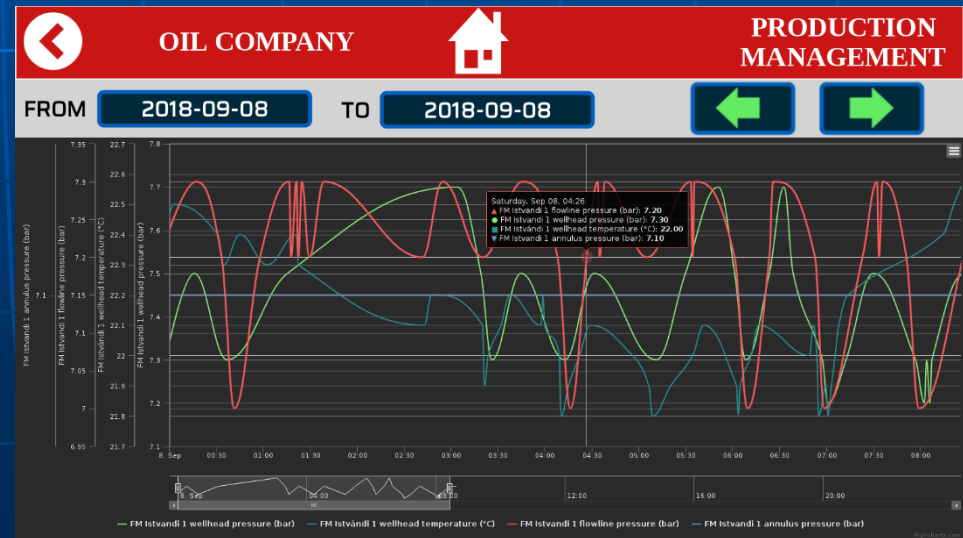
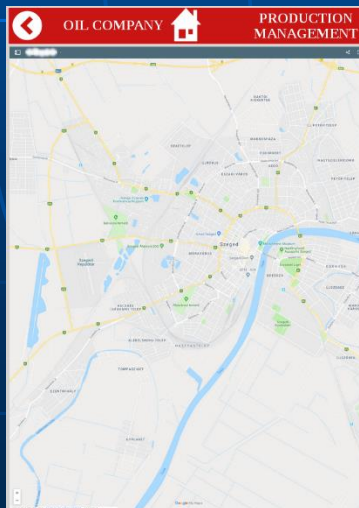
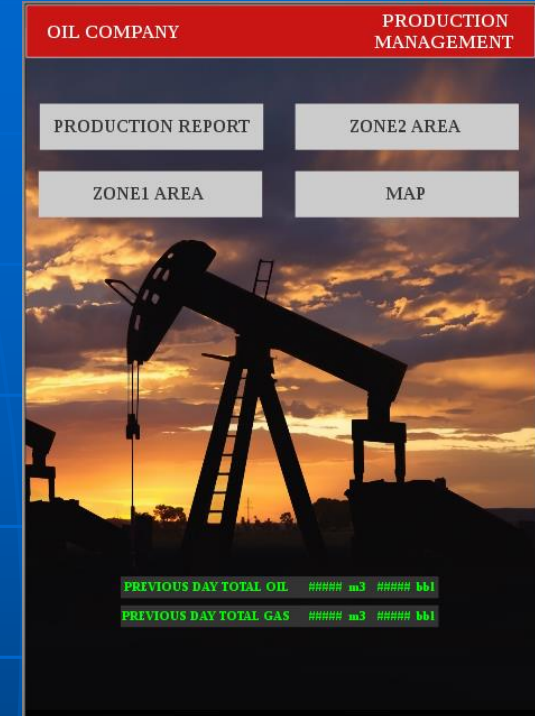
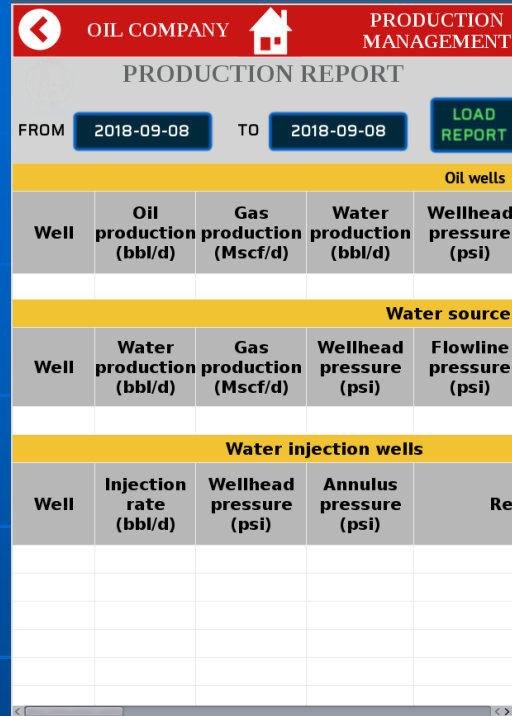
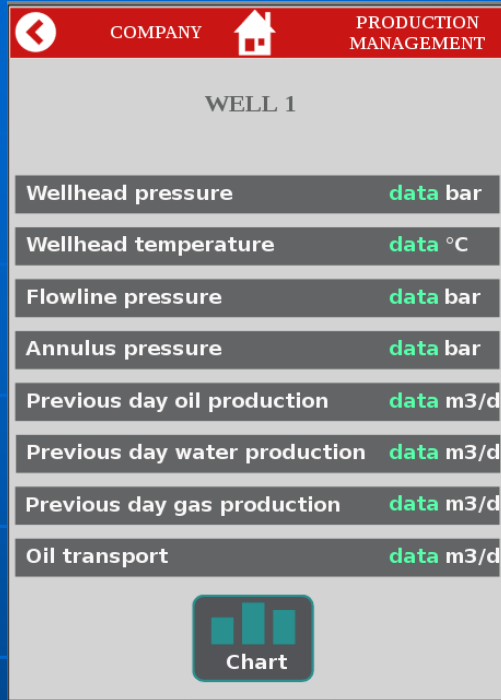
Processing report in email

Dear All,
Please find below the daily production report:

Oil wells							
Well	Oil production (bbl/d)	Gas production (Mscf/d)	Water production (bbl/d)	Wellhead pressure (psi)	Flowline pressure (psi)	Annulus pressure (psi)	Remark
Ist-1	19.5	25.6	27.0	110.2	105.9	107.3	
Ist-2	39.0	41.4	27.7	127.6	104.4	129.1	
Jar-1	47.2	26.5	57.2	75.4	58.0	60.9	
Jar-3	303.8	177.6	76.1	248.0	78.3	250.9	
Jar-5	156.6	40.0	13.8	110.2	75.4	100.2	
Jar-8	103.8	110.5	12.6	130.5	127.6	133.4	
Jar-9	41.5	25.8	15.1	146.5	127.6	126.2	
Petny-1	754.8	488.3	5.0	617.9		1363.4	
Petny-2A	639.7	467.5	5.0	507.6	94.3	725.2	
Petny-4A	469.8	130.4	2.5	290.1	58.0	290.1	
Petk-6A	375.5	166.4	4.4	398.9	60.9	0.0	
Petk-1	678.7	320.0	7.5	581.6		0.0	
Petk-3	300.0	215.6	3.8	559.8		0.0	
Petny-9	115.7	74.9	1.9	79.8	43.5	0.0	
LACT	4045.6	2310.5	259.8				
Water injection wells							
Well	Injection rate (bbl/d)	Wellhead pressure (psi)		Annulus pressure (psi)		Remark	
Jar-6	127.1	636.7		0.0			

Regards,

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Thank you for your attention!

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