

PASS SCADA AND MANAGEMENT LÓRÁNT HORVÁTH

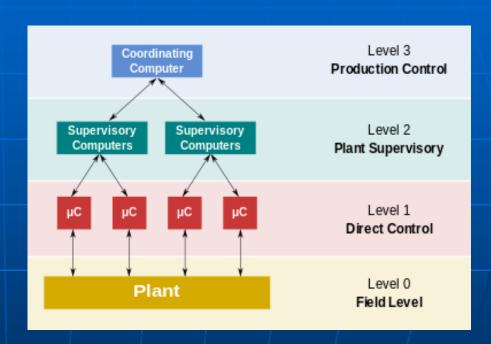
Digitalization in the Oil and Gas Industry Challenges & Opportunities

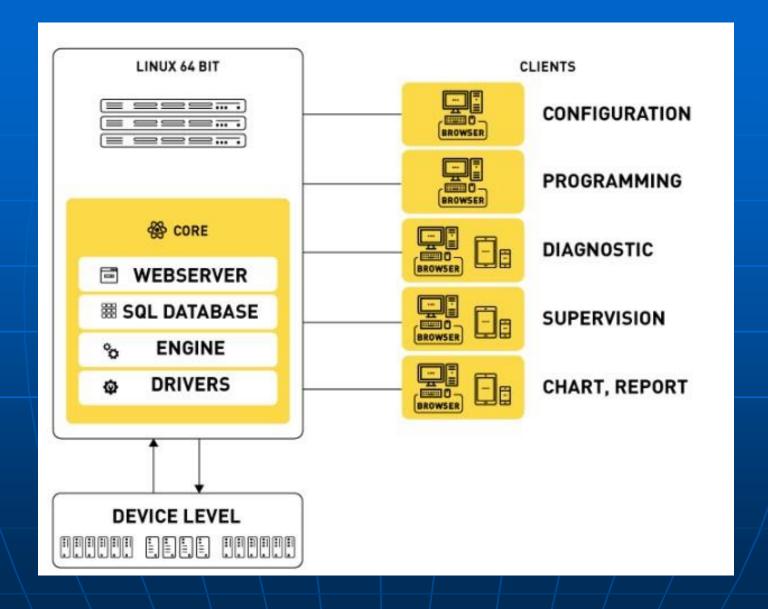
Workshop

15-16 November 2018, Visegrád

Society of Petroleum Engineers

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





- 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



VECTORGRAPHIC PICTURE EDITOR

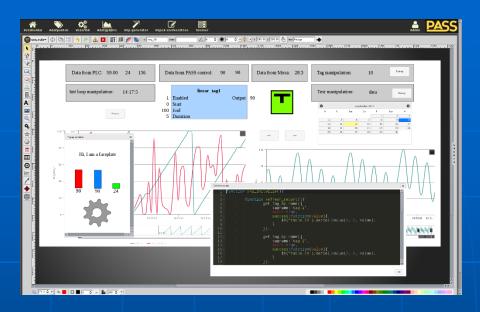
- VECTORGRAPHIC DRAWING
- DINAMIC ELEMENTS
- DIAGRAM, CALENDAR, CHART ELEMENTS
- MONITORING CONTROL BLOCKS

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JAVASCRIPT EDITOR

- TAG MANIPULATING
- MANIPULATING PICTURE ELEMENTS
- HANDLING SQL DATA
- RIPORT HANDLING

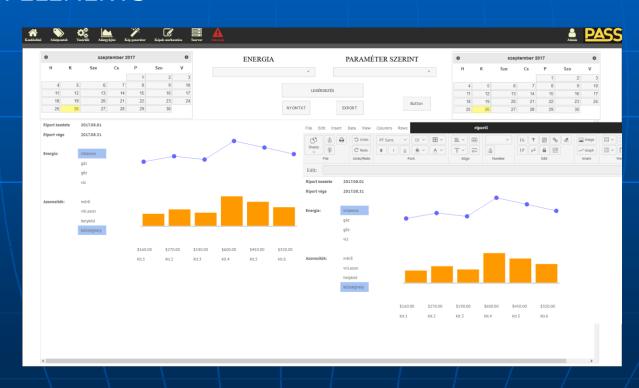
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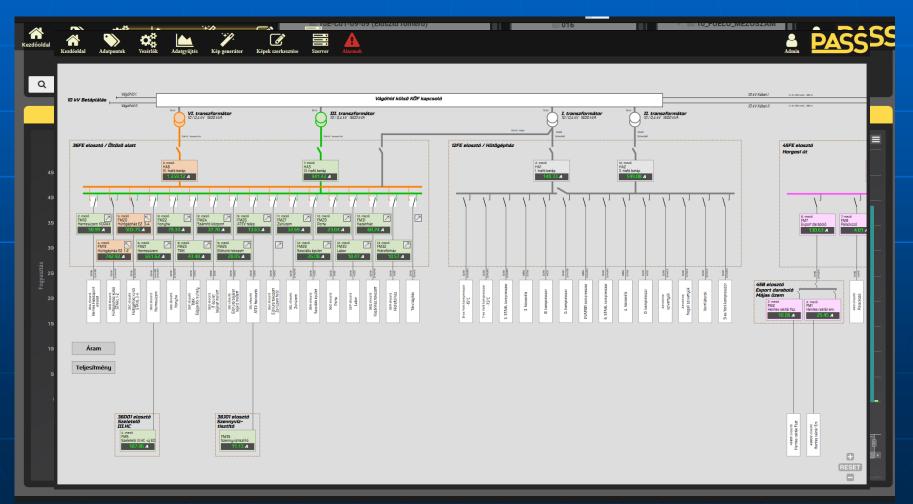
INTEGRATED REPORT EDITOR

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

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

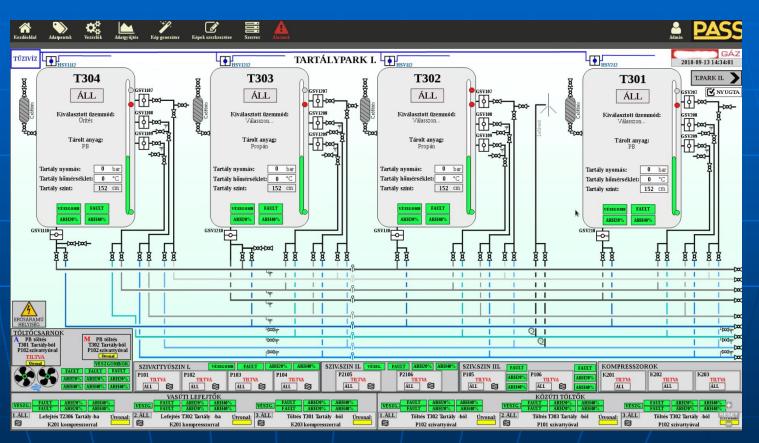




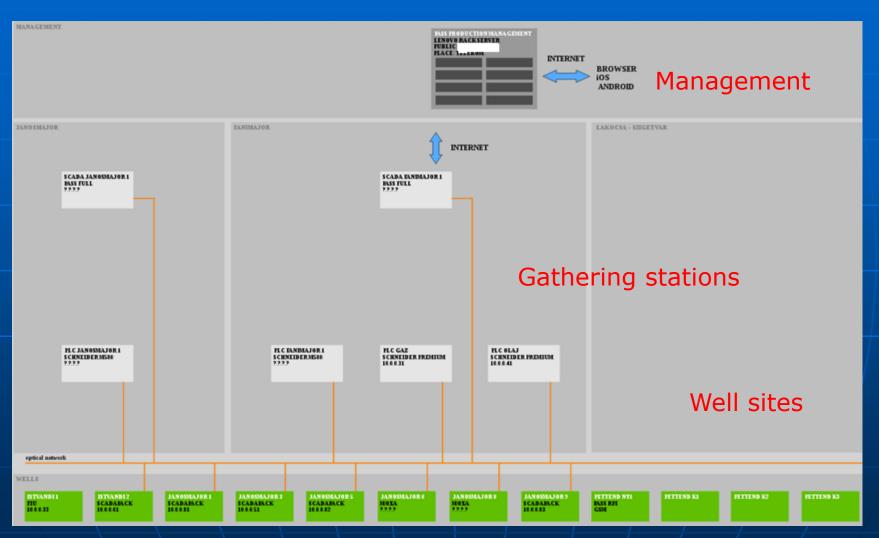
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Gas plant supervisory system

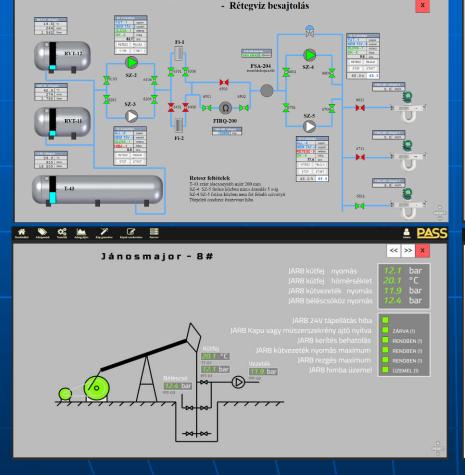
4 PLC 1000 I/O point



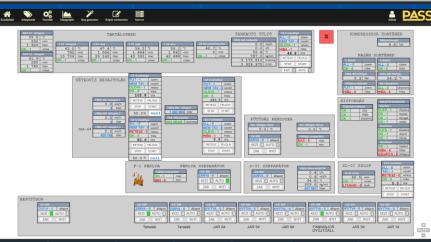
Oil extraction



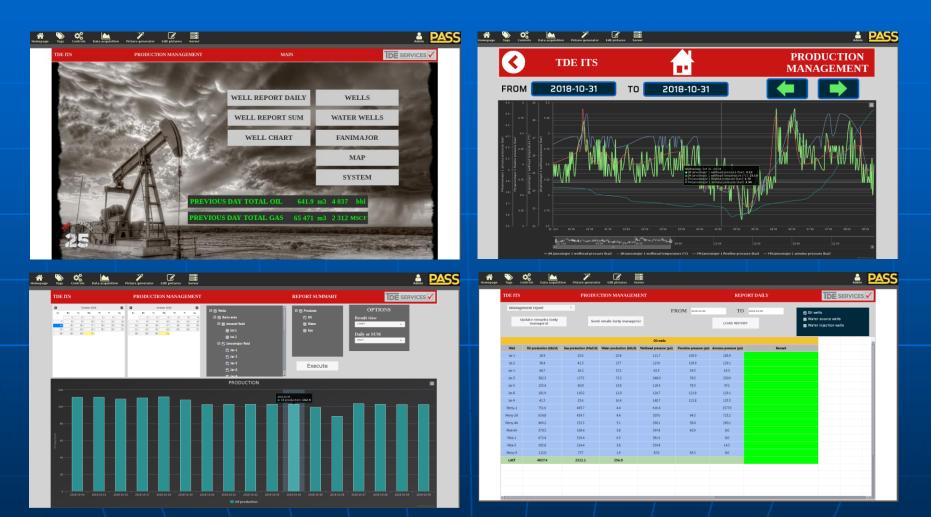
Oil extraction Scada level







Oil extraction Management level



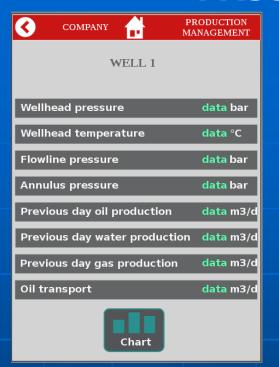
Oil extraction Management level

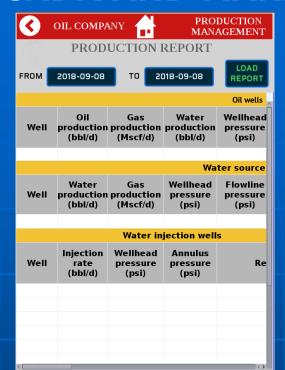
Processing report in email

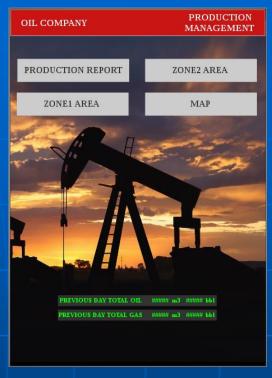
Dear All, Please find below the daily production report:

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						











Thank you for your attention!

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