



Automotive industry

REFERENCE
January 2018

INTRODUCTION

The Vibracoustic company (a manufacturer of car components) showed an interest in modernizing its production hall. The company started to look for a visualization system that would overview the production and help to decrease the costs to be even more competitive to their automotive “rivals”. The most suitable solution was mySCADA, which offers visualization software placed in an operator’s panel.



About the company

Vibracoustic is an exclusive supplier of components preventing the vibrations in automotive industry. The company produces and delivers bearings, handles, insulators, and shock absorbers all around the world for producers of all kind of vehicles. The manufacturing plant near Prague is specialized in producing products for gearboxes and engines.

PROJECT

The need of implementation arose primarily due to two reasons. The company was looking for an on-line system that was able to log the production data to **tables** as well as in **graphic** form.



Picture 1 - The operator panel placed in a production hall

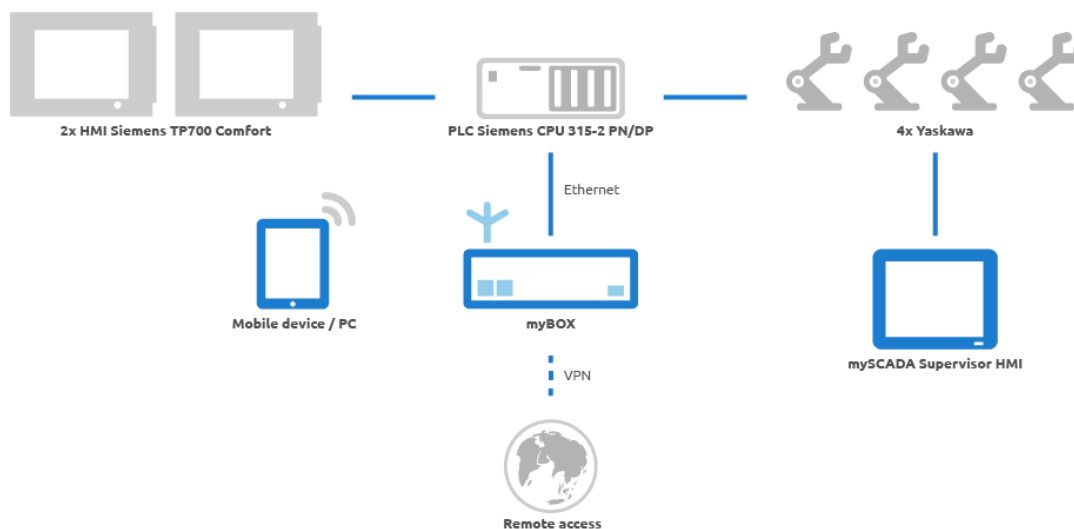
„We chose mySCADA because they were able to customize their software to our requirements. The other advantage for us seems to be a high stability of the system“

says Michal Pavlu (the Plant Process Engineer in Vibracoustic).

Project assignment

1. Predefined data collection.
2. Predefined parameters display (e.g. hourly performance of the production line, a graphical representation of the most important parameters, displaying of the current production statuses or displaying of additional documentation).
3. Program selection and recording of the interventions to the production line (the overview of the changes in production).
4. User hierarchy - the overview of the access rights for users and the ability to see any changes made by each user. (All changes have to be approved by a competent person – in this case by a technologist.)

Connection scheme



PROJECT – VISUALIZATION

The operators track the performance of the line while checking the documentation for the manufactured part on the next monitor. When a change in production has to be made, the operator uses the panel for the item selection and loading to the line. The technologist controls the processes and is able to efficiently react to the current situation.

The visualization and the line were set and optimized to the extent that, in these days, there is almost no need for system adjustment. The management team is able to see and control the performance of the production line, view how efficient the production line is, and determine if any time delays are happening.

Screens

On this screen you can see the data available for each manufactured component. There is the greatly appreciated ability to choose just the data you need (per hour/day/week) – in red box.

Vibračnice

Hlavní

Díl

Výroba

Reporty

Receptury

Prostoje

Alarmy

Zásahy

Přihlášení

<

>

Od: 8. prosinec 2017 00:00:00

Do: 8. prosinec 2017 23:59:59

Hodina

Dnes

Týden

Zobrazit

10000

FILTER

TIME ON

Export

Číslo	ČAS	ČísloDílu	ScanCode	Plnění	VakuumStart	VakuumKonec	Stanice1	Stanice2	VakuumOK	Vak
1	8. prosinec 2017 00:00:41	F036096627	6860496041477711017120800637	1853.0	0.0	0.0	0	0	1	0
2	8. prosinec 2017 00:01:00	F036096627	6860496041477711017120800637	1847.0	0.0	0.0	0	0	1	0
3	8. prosinec 2017 00:01:11	F036096627	6860496041477711017120800856	1852.0	0.0	0.0	0	0	1	0
4	8. prosinec 2017 00:01:34	F036096627	6860496041477711017120800881	1845.0	0.0	0.0	0	0	1	0
5	8. prosinec 2017 00:01:58	F036096627	6860496041477711017120800894	1844.0	0.0	0.0	0	0	1	0
6	8. prosinec 2017 00:02:10	F036096627	6860496041477711017120800915	1842.0	0.0	0.0	0	0	1	0
7	8. prosinec 2017 00:02:22	F036096627	6860496041477711017120800938	1859.0	0.0	0.0	0	0	1	0
8	8. prosinec 2017 00:02:34	F036096627	6860496041477711017120800938	1844.0	0.0	0.0	0	0	1	0
9	8. prosinec 2017 00:02:47	F036096627	6860496041477711017120800964	1852.0	0.0	0.0	0	0	1	0
10	8. prosinec 2017 00:03:01	F036096627	6860496041477711017120800977	1847.0	0.0	0.0	0	0	1	0
11	8. prosinec 2017 00:03:14	F036096627	6860496041477711017120800989	1841.0	0.0	0.0	0	0	1	0
12	8. prosinec 2017 00:03:26	F036096627	6860496041477711017120800989	1840.0	0.0	0.0	0	0	1	0
13	8. prosinec 2017 00:03:48	F036096627	6860496041477711017120801015	1850.0	0.0	0.0	0	0	1	0
14	8. prosinec 2017 00:04:00	F036096627	6860496041477711017120801028	1849.0	0.0	0.0	0	0	1	0
15	8. prosinec 2017 00:04:29	F036096627	6860496041477711017120801049	1848.0	0.0	0.0	0	0	1	0
16	8. prosinec 2017 00:04:42	F036096627	6860496041477711017120801062	1841.0	0.0	0.0	0	0	1	0
17	8. prosinec 2017 00:04:55	F036096627	6860496041477711017120801090	1844.0	0.0	0.0	0	0	1	0
18	8. prosinec 2017 00:05:12	F036096627	6860496041477711017120801103	1847.0	0.0	0.0	0	0	1	0
19	8. prosinec 2017 00:05:24	F036096627	6860496041477711017120801121	1846.0	0.0	0.0	0	0	1	0
20	8. prosinec 2017 00:05:36	F036096627	6860496041477711017120801121	1847.0	0.0	0.0	0	0	1	0
21	8. prosinec 2017 00:05:49	F036096627	6860496041477711017120801133	1847.0	0.0	0.0	0	0	1	0
22	8. prosinec 2017 00:06:01	F036096627	6860496041477711017120801146	1853.0	0.0	0.0	0	0	1	0
23	8. prosinec 2017 00:06:13	F036096627	6860496041477711017120801159	1851.0	0.0	0.0	0	0	1	0
24	8. prosinec 2017 00:06:25	F036096627	6860496041477711017120801172	1846.0	0.0	0.0	0	0	1	0
25	8. prosinec 2017 00:06:38	F036096627	6860496041477711017120801185	1852.0	0.0	0.0	0	0	1	0
26	8. prosinec 2017 00:06:52	F036096627	6860496041477711017120801198	1850.0	0.0	0.0	0	0	1	0
27	8. prosinec 2017 00:07:14	F036096627	6860496041477711017120801223	1849.0	0.0	0.0	0	0	1	0

8. prosinec 2017 22:48:26

Stav: Automatický režim

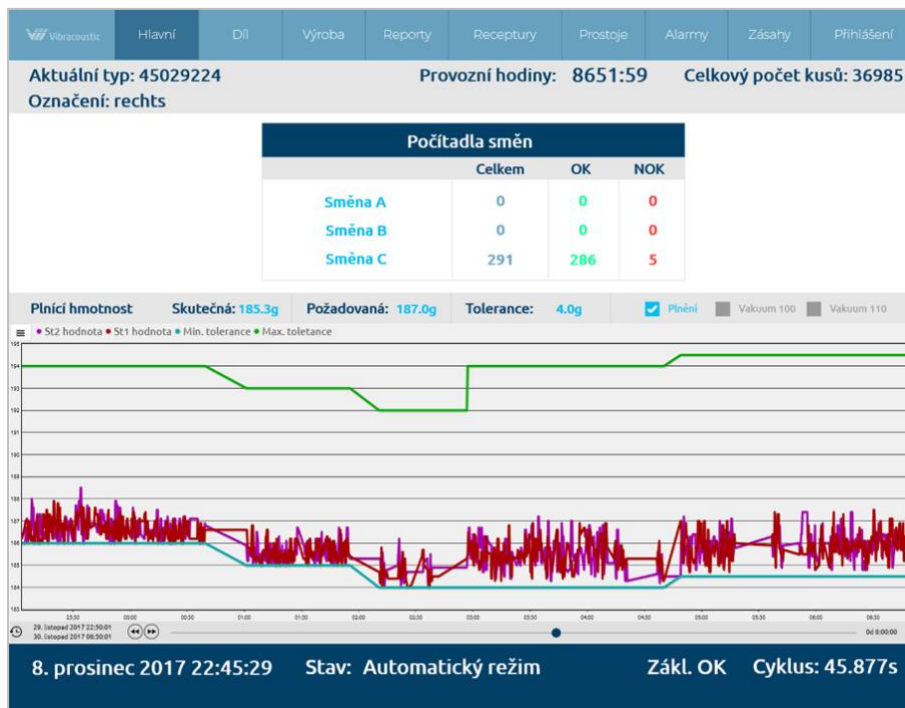
Zákl. OK

Cykly: 14.01s

In this section, all recipes are saved. If a new order shows, maintenance adds a new parameter to the table, connects it to the PLC and the production line is ready to create this new component. This change is obviously written to the section Zásahy (user actions).

Picture 4 - Recipe setting for a specific component

The status of the production line, the production cycle, the amount of manufactured OK/NOK components are seen in this screen. The most important parameter should be the stability of the system (red graph).



Picture 5 – Main page



Evropska 11
160 00 Prague,
Czech Republic



info@myscada.org



+420 224 904 121