

FICS is an acronym for Field Information Collection System, is an Inspection and Predictive Maintenance System.

The system consists of:

- **A Cloud Web Platform**
- **Mobile Devices: Handhelds or Smartphones**
- **Chip (Rfid Tag) to identify the Points to be checked for each Equipment**



The platform allows to break down a Plant into a hierarchical structure, constituted as follows:

- Units
- Groups
- Zones
- Points to be checked for each Equipment



A unique code (KKS) and a Chip are associated with each Point to be checked.

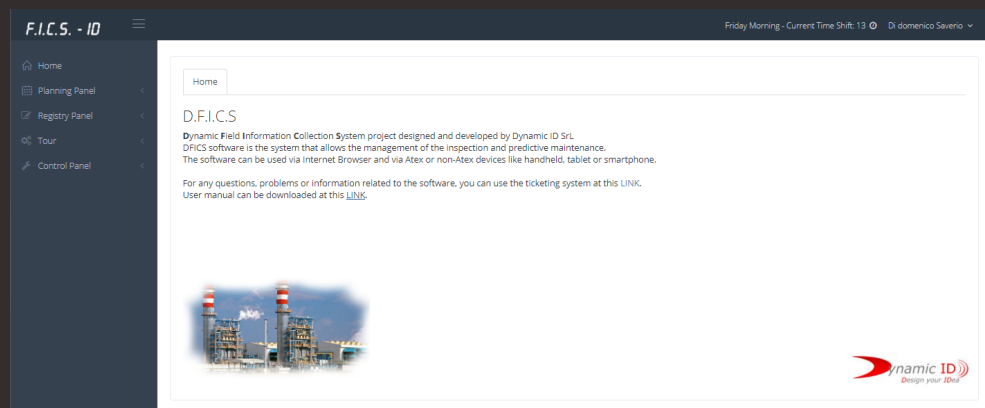
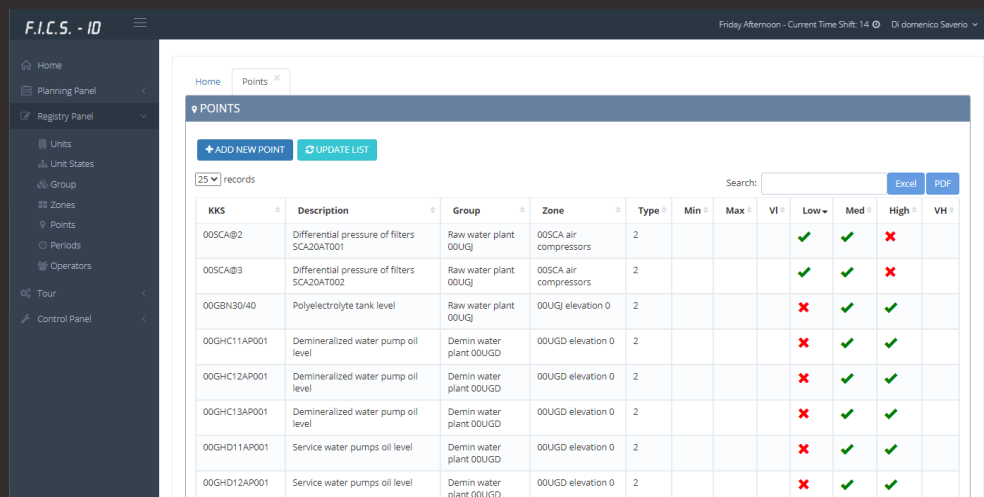
The operator with his mobile device performs the following procedure:

Reads the Chip of the Point: then certifies that he went to the equipment on a certain date and time;

The software asks him a question or the check to perform;

Depending on the type of point (there are 4 types), the operator can answer by indicating:

- For Type 1: OK / NOK
 - (i.e. Normal / Abnormal, Active / Not Active)
- For Type 2: Low / Medium / High value
 - (for example indicate the presence and extent of a vibration)
- For Type 3: Very Low / Low / Medium / High / Very High value
 - (for example indicate the flow of a liquid)
- For Type 4: he must indicate a numerical value
 - (for example a temperature or pressure value read by an instrument)

KKS	Description	Group	Zone	Type	Min	Max	VI	Low	Med	High	VH
00SCA@2	Differential pressure of filters SCA20AT001	Raw water plant 00UGJ	00SCA air compressors	2				✓	✓	✗	
00SCA@3	Differential pressure of filters SCA20AT002	Raw water plant 00UGJ	00SCA air compressors	2				✓	✓	✗	
00GBN30/40	Polyelectrolyte tank level	Raw water plant 00UGJ	00UGJ elevation 0	2				✗	✓	✓	
00GHC11AP001	Demineralized water pump oil level	Demin water plant 00UGD	00UGD elevation 0	2				✗	✓	✓	
00GHC12AP001	Demineralized water pump oil level	Demin water plant 00UGD	00UGD elevation 0	2				✗	✓	✓	
00GHC13AP001	Demineralized water pump oil level	Demin water plant 00UGD	00UGD elevation 0	2				✗	✓	✓	
00GHD11AP001	Service water pumps oil level	Demin water plant 00UGD	00UGD elevation 0	2				✗	✓	✓	
00GHD12AP001	Service water pumps oil level	Demin water plant 00UGD	00UGD elevation 0	2				✗	✓	✓	

In the Web platform, it is possible to indicate for each Point which are the alarm values, for example:

- for Type 4 the pressure in bar must not be less than 1 bar and must not be greater than 4 bar;
- for Type 3 the High and Very High values for a vibration are dangerous.

F.I.C.S. - ID

Home

Planning Panel

Registry Panel

Tour

Add Tour

List of Tour

Planned Tour

Executed Tour

Executed Check Tour

Control Panel

Monday Morning - Current Time Shift: 1

Di domenica Salvo

Home

Planned Tours

Planned Tours

Update List

25 records

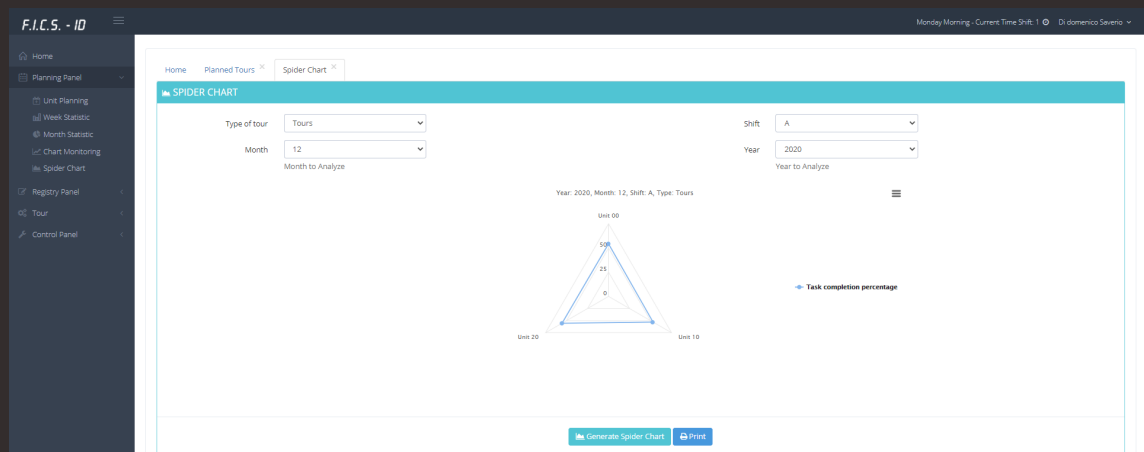
Tour Description	Unit	Unit State	Group	# Exec/Shift	Type
00_AQUA_BRUTA_OPERACION	Unit 00	In operation	Raw water plant 00UG	1	IE
00_AQUA_DEMI_OPERACION	Unit 00	In operation	Demin water plant 00UGD	1	IE
00_CALDERA_AUX_OPERACION	Unit 00	In operation	Auxiliary boiler 00QHA	1	IE
00_DOSIFICACION_TORRES_OPERACION	Unit 00	In operation	Cooling towers dosage	1	IE
00_ERM_OPERACION	Unit 00	In operation	Gas reducing station 00ERM	1	IE
00_FCO_OPERACION	Unit 00	In operation	Fire House 00UGS	1	IE
00_TORRES_OPERACION	Unit 00	In operation	TOWERS	1	IE
10_HRSG_OPERACION	Unit 10	In operation	Boiler U10	1	IE
10_UMC_NORTE_OPERACION	Unit 10	In operation	10UMC	1	IE
10_UMC_SUR_OPERACION	Unit 10	In operation	10UMC	1	IE
20_HRSG_PARADA	Unit 20	Standstill	Boiler U20	1	IE
20_UMC_NORTE_PARADA	Unit 20	Standstill	20UMC	1	IE
20_UMC_SUR_PARADA	Unit 20	Standstill	20UMC	1	IE

Showing 1 to 13 of 13 entries

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The system allows to organize the inspection cycles on Tours. Tours are a sequence of Points to check and can be combined

- to a particular state of a Unit of the Plant,
- to work shift,
- to specific maintenance technicians,
- to a specific cyclicity.

**The system automatically generates:
Report in PDF format for each tour performed,
Statistics and Graphs on Activities and Anomalies found,
and can communicate the collected data to external systems (Sap,
Q4, AS400, Microsoft Dynamic or to our Maintenance-ID system).**

[illegible]

FICS offers the possibility to analyze the data, to verify if there is a "derives" and to send automatic alarms. Optionally it is also possible to attach a Deep Learning module.

The system can be used with various types of mobile terminals:

- **Handhelds and Smartphones also in Atex technology,**
- **Possibility to read the identification chip of the Point with NFC (proximity) or UHF technology (up to 2 meters)**



NFC
(RFID HF)

RUGGED



UHF
RFID

RUGGED



NFC
(RFID HF)

RUGGED



It is possible to install Identification Chips with a sensor inside (humidity, temperature, movement).

The Chip is always without battery and at the time of reading it communicates its identification code and, if installed, the sensor value.



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