INSERMA
ANOIA, S.L.
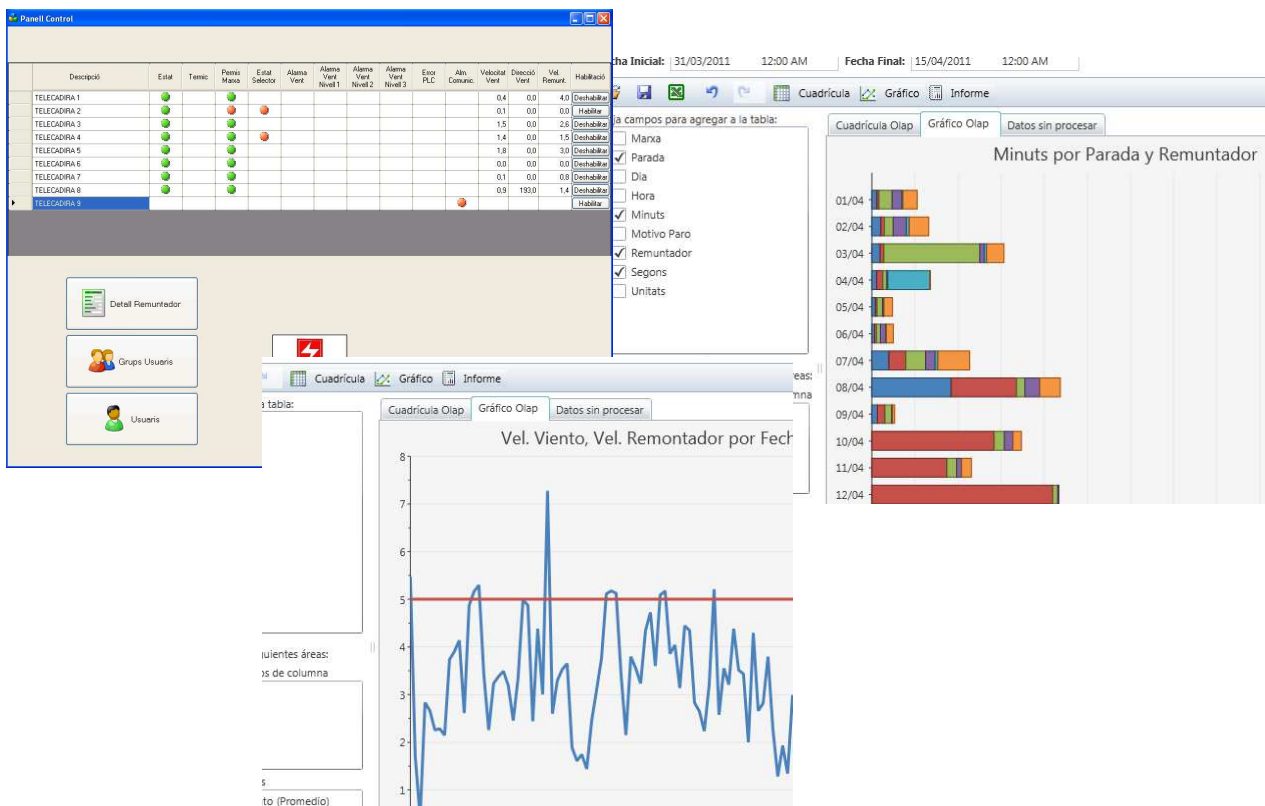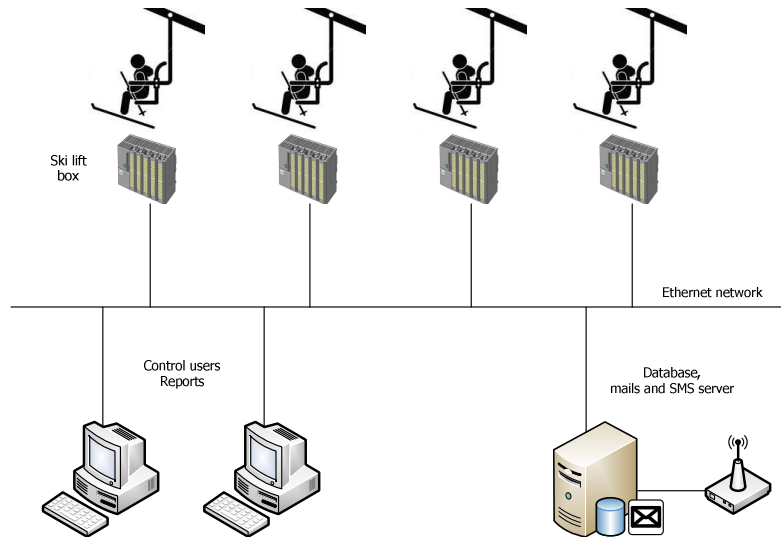
Inserma Anoia S.L. provides solutions for monitoring the operation of the ski lifts, displays the operating status remotely, generates alerts to maintenance staff in case of failure and remotely enables the operation of the facilities.

Ski lift box

Ethernet network

Control users
Reports

Database,
mails and SMS server

Panell Control

Descripció	Estat	Tèrmic	Permís Marxa	Estat Selector	Alarma Vent	Alarma Vent Nivell 1	Alarma Vent Nivell 2	Alarma Vent Nivell 3	Error PLC	Alm. Comunic.	Velocitat Vent	Direcció Vent	Vel. Remunt.	Habilitació
TELECADIRA 1											0,4	0,0	4,0	Deshabilitar
TELECADIRA 2											0,1	0,0	4,0	Habilitar
TELECADIRA 3											1,5	0,0	2,6	Deshabilitar
TELECADIRA 4											1,4	0,0	1,5	Deshabilitar
TELECADIRA 5											1,8	0,0	3,0	Deshabilitar
TELECADIRA 6											0,0	0,0	0,0	Deshabilitar
TELECADIRA 7											0,1	0,0	0,8	Deshabilitar
TELECADIRA 8											0,9	193,0	1,4	Deshabilitar
TELECADIRA 9														Habilitar

Detall Remuntador

Grups Usuaris

Usuaris

Fecha Inicial: 31/03/2011 12:00 AM Fecha Final: 15/04/2011 12:00 AM

Cuadrícula   Gráfico   Informe

campos para agregar a la tabla:

Cuadrícula Olap   Gráfico Olap   Datos sin procesar

- Marxa
- ✓ Parada
- Día
- Hora
- ✓ Minuts
- Motivo Paro
- ✓ Remuntador
- ✓ Segons
- Unitats

Minuts por Parada y Remuntador

01/04
02/04
03/04
04/04
05/04
06/04
07/04
08/04
09/04
10/04
11/04
12/04

Cuadrícula   Gráfico   Informe

la tabla:

Cuadrícula Olap   Gráfico Olap   Datos sin procesar

Vel. Viento, Vel. Remuntador por Fech

uientes áreas:
os de columna

to (Promedio)

INSERMA ANOIA S.L. is a service company specialized in different sections of industry. With an extensive background of experience, innovation and training, is situated between the leading companies in this sector.

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Control Box Features

The Box is installed in every lift, collects operational data and enables operation.

Software Features

Communications server:

The server communicates to the box installed in each of the ski lifts through the existing Ethernet network. Modbus/TCP is used as communications protocol.

Communications server reads:

- o Record of the lift stops,
- o current operating status,
- o wind alarm status (if any),
- o software enable status,
- o hardware enable status,
- o ski lift current speed,
- o wind current speed,
- o wind direction,

and sends these commands to the PLC :

- o Activate the software enable,
- o Deactivate the software enable

Database

The database records the historical data collected from the ski lifts and the configuration parameters of the system.

Server for sending SMS and email

From data collected them on the lifts and using the setting in terms of groups of lifts, user groups and delays, the system sends alerts about the malfunction of the lifts.

Windows user interface

Windows application that:

- o their general configuration and system communications,
- o modification of the ski lifts and ski groups,
- o creating and modifying users and groups,
- o creation and modification of alerts,
- o The current status of the lifts,
- o view the history of the ski lift stops,
- o graphics display ski lift speed,
- o view the graphics speed and wind direction,
- o monitor the overall status of all lifts,
- o Enable and disable the operation of the lifts

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