

DMS

CATALOG



DRILLMEC
DRILLING TECHNOLOGIES

DMS drilling mate systems

DMS Master®

Drillmec DMS Master® is a software developed to prevent, identify and resolve more quickly any equipment breakdowns.

To this end, it was implemented a system of signal acquisition and data management, integrated in a network of global connectivity.

The communication system is installed using a network of geostationary satellites and provides: comprehensive coverage of the signal, connection speeds of a few hundred Kb\sec and a signal quality is less influenced by climatic conditions than traditional parable systems.

For every landline connection it is being used the latest and the safest encryption services.

The connection of drilling rigs to Drillmec servers is used to achieve five different functions:

■ ALARM NOTIFICATION SERVICE

It provides instant delivery of data packages to a central server Drillmec to ensure prompt warnings of faults and events that are useful to track down.

■ REMOTE CONTROL

Drillmec technicians can remotely modify rig parameters, DMS settings or update the software.

■ REGISTRATION DATA SERVICE

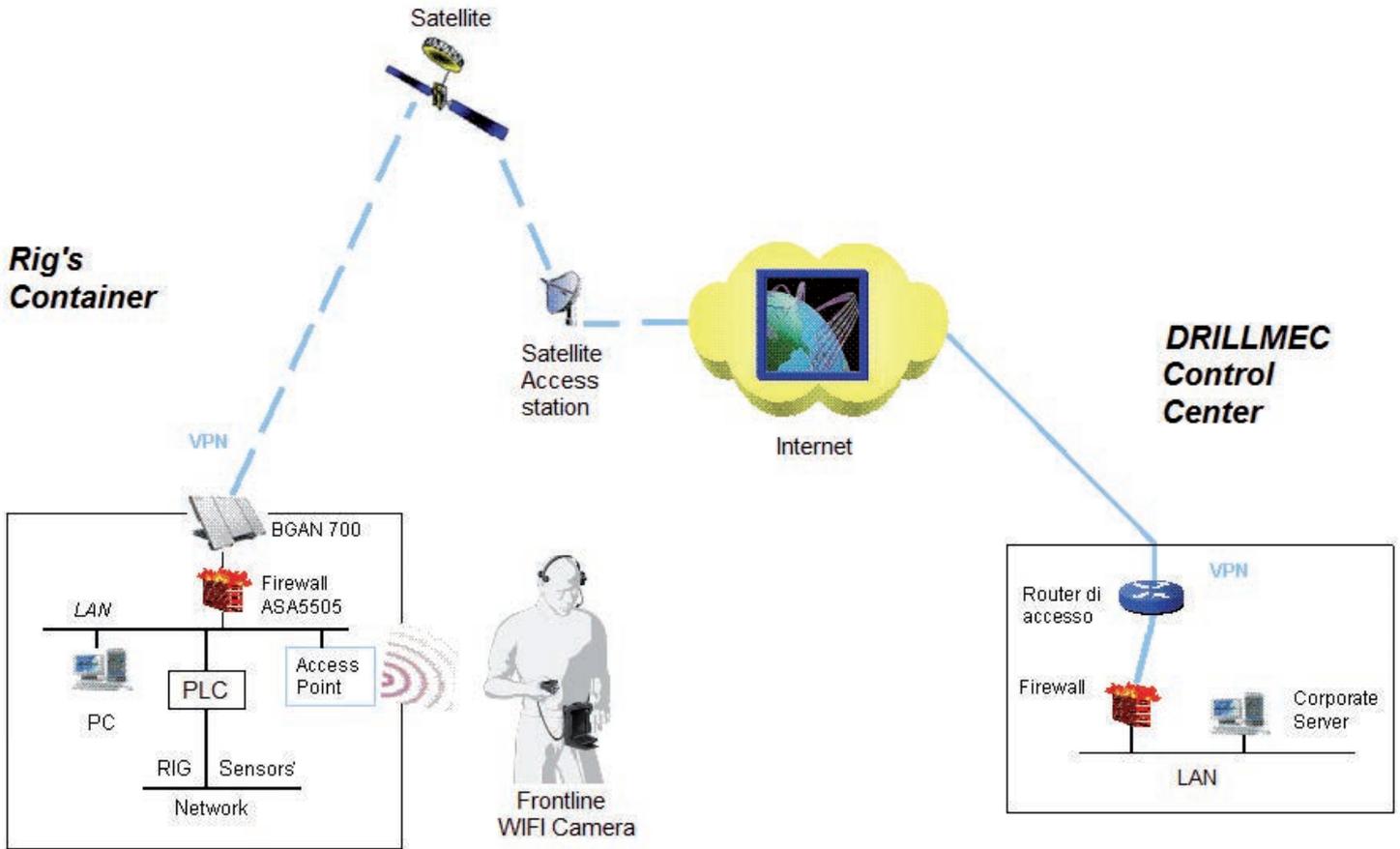
The rig is designed to record the progress of hundreds working parameters. In the event of a malfunction it is possible to download the registration of the parameters of interest to accomplish an immediate diagnosis and also for some individual events.

■ SUPERVISION SERVICE

If necessary after-sales service, using a common web browser, can see all plant parameters in real time. In addition, you can integrate the system with ATEX WIFI portable cameras to show possible malfunction from any point of the installation and follow the advice of the technicians Drillmec with audio-video stream.

■ MAP

Geo-localization of the rigs, with an icon that indicates the real-time status.



ATEX Handheld Frontline camera



ATEX Headset Frontline camera

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Impianto - S/N		Operatore		Controlli		DRILLMEC DRILLING TECHNOLOGIES		
Cantiere		Indirizzo ip		Controllo Web	Video PC1			
				Stato Impianto	Download FTP			
Data Ora	Impianto	Cliente	Cantiere	Unita'	Gruppo	Tipo	Numero	Descrizione
16-04-2012 14:10:51	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Pipe Handler	Emergenza	ON	95	MORSA MOUSE HOLE NON COMPLETAMENTE APERTA
16-04-2012 14:10:37	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Pipe Handler	Emergenza	ON	95	MORSA MOUSE HOLE NON COMPLETAMENTE APERTA
16-04-2012 12:50:21	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Impianto	In disconnessione	261	INSERIRE PILOTAGGI
16-04-2012 12:19:36	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Hydraulic P.U.	Emergenza	OFF	261	INSERIRE PILOTAGGI
16-04-2012 10:47:45	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Hydraulic P.U.	Emergenza	OFF	461	Bus Fault Nodo 44 (Anybus Generatore 3)
16-04-2012 10:31:58	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	OFF	388	Allarme Generalis Generatore 2
16-04-2012 10:12:29	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	ON	261	INSERIRE PILOTAGGI
16-04-2012 09:31:12	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Hydraulic P.U.	Emergenza	OFF	65	VALVOLA ROTAZIONE MANIPOLATORE
16-04-2012 08:30:35	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Pipe Handler	Emergenza	OFF	65	VALVOLA ROTAZIONE MANIPOLATORE
16-04-2012 08:20:38	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Pipe Handler	Emergenza	ON	65	VALVOLA ROTAZIONE MANIPOLATORE
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	478	Bus Fault Nodo 104 (PST Supercharging_2)
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	477	Bus Fault Nodo 103 (PST Supercharging_1)
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	461	Bus Fault Nodo 44 (Anybus Generatore 3)
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	442	Contattore Emergenza Vasca 2
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	441	Contattore Emergenza Vasca 1
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	440	Contattore Emergenza Dosaggio Additivi
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	439	Contattore Emergenza Mixer 2
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	438	Contattore Emergenza Mixer 1
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	409	Termico Generatore Ausiliario
16-04-2012 08:02:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	388	Allarme Generale Generatore 2
16-04-2012 08:02:02	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Impianto	Online		
16-04-2012 02:03:40	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Impianto	Offline		
16-04-2012 02:03:40	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Impianto	In disconnessione		
16-04-2012 01:57:17	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	OFF	431	Contattore Emergenza MP2_A
16-04-2012 01:57:16	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	OFF	430	Contattore Emergenza MP2_A
15-04-2012 20:38:21	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Pipe Handler	Emergenza	OFF	20	SENSORE PRESENZA ASTA IN MOUSE HOLE
15-04-2012 20:37:28	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Pipe Handler	Emergenza	ON	20	SENSORE PRESENZA ASTA IN MOUSE HOLE
15-04-2012 16:02:23	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	Hydraulic P.U.	Emergenza	OFF	261	INSERIRE PILOTAGGI
15-04-2012 12:49:52	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	OFF	459	Bus Fault Nodo 42 (Anybus Generatore 2)
15-04-2012 12:49:25	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	ON	459	Bus Fault Nodo 42 (Anybus Generatore 2)
15-04-2012 12:49:11	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	OFF	459	Bus Fault Nodo 42 (Anybus Generatore 2)
15-04-2012 12:48:44	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	ON	459	Bus Fault Nodo 42 (Anybus Generatore 2)
15-04-2012 08:01:55	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	409	Termico Generatore Ausiliario
15-04-2012 08:01:55	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	388	Allarme Generale Generatore 2
15-04-2012 08:01:55	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	387	Allarme Generale Generatore 1
15-04-2012 08:01:55	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Aggiornamento	ON	261	INSERIRE PILOTAGGI
15-04-2012 08:01:31	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Impianto	Online		
15-04-2012 02:03:08	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Impianto	Offline		
15-04-2012 02:03:08	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	DMS Manager	Impianto	In disconnessione		
15-04-2012 01:08:21	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	OFF	385	Isolamento Elettrico Inferiore a Soglia 1
15-04-2012 00:45:27	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	ON	385	Isolamento Elettrico Inferiore a Soglia 1
14-04-2012 22:12:19	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	OFF	385	Isolamento Elettrico Inferiore a Soglia 1
14-04-2012 21:57:43	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	ON	385	Isolamento Elettrico Inferiore a Soglia 1
14-04-2012 21:55:25	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	OFF	385	Isolamento Elettrico Inferiore a Soglia 1
14-04-2012 21:07:30	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	ON	385	Isolamento Elettrico Inferiore a Soglia 1
14-04-2012 20:05:14	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	OFF	385	Isolamento Elettrico Inferiore a Soglia 1
14-04-2012 19:58:19	IB00156ABCE	HH300 ENEL	RADICONDOLI (SI)	PCR	Emergenza	ON	385	Isolamento Elettrico Inferiore a Soglia 1

2

Drilling Mate System

DMS drilling mate systems

DMS Manager®

Drillmec DMS Manager® is a managing software installed on HH Rigs.

It allows the driller to view all the information available to drill, to automate and simplify certain aspects of drilling, to provide information on rig condition and to check the progress of work and working conditions plant outside the rig.

As well as graphic display of all parameters, it can provide printing / exporting options.

Available parameters are:

■ DRILLING CONTROL

Hook weight
WOB
Top drive RPM
Top drive Torque
Pull down speed
Top drive speed
Bit position

Total depth of the well
Hydraulic oil temperature control unit HPU
Oil level in hydraulic power unit HPU
Mouse Hole clamp control
Power tong clamp control
Mast dynamic graphics

■ ENGINE SECTION

Status of engines
Warning lights
Alarm main page
Battery voltage
Engine Rpm
Engine torque
Fuel pressure

Oil pressure
Coolant level
Coolant temperature
Average consumption of fuel
Fuel temperature
Working hours

■ CASING SECTION

Casing torque control

Rpm rotation

■ MUD SYSTEM SECTION

Active tanks and levels
Mud pumps SPM & total strokes
Gain/loss control with setting point alarms
Max/min level settings

Mud pressure
Trip tank level
Sensor settings

■ TREND SCREEN

This section supplies graphs showing the time course of vertical drilling data (ex: hook weight, top drive torque, top drive RPM, etc.) The display of such data has several settings and you can print reports with the daily graph of the data drilling.



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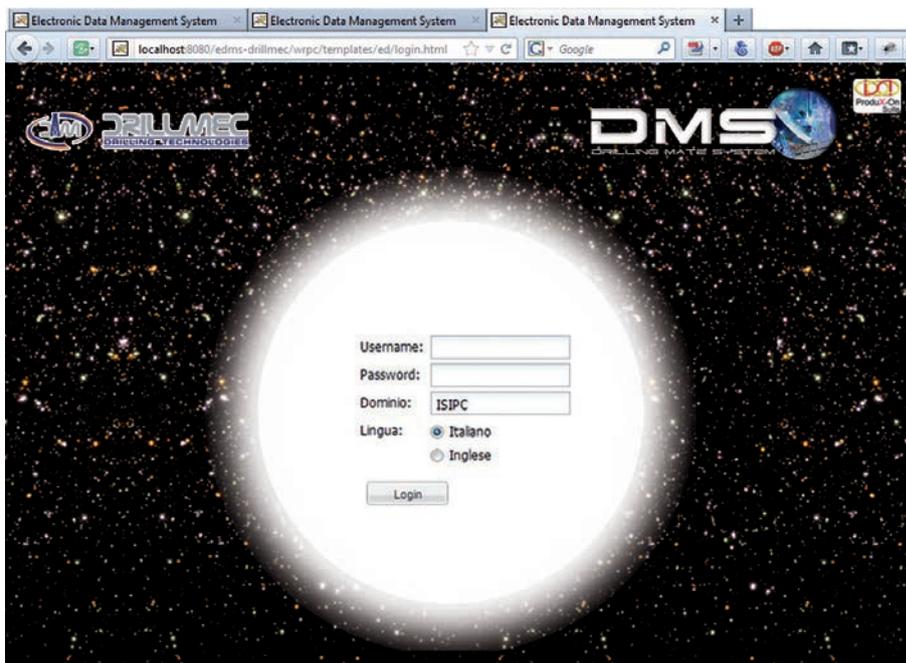
DMS drilling mate system

DMS Watchdog®

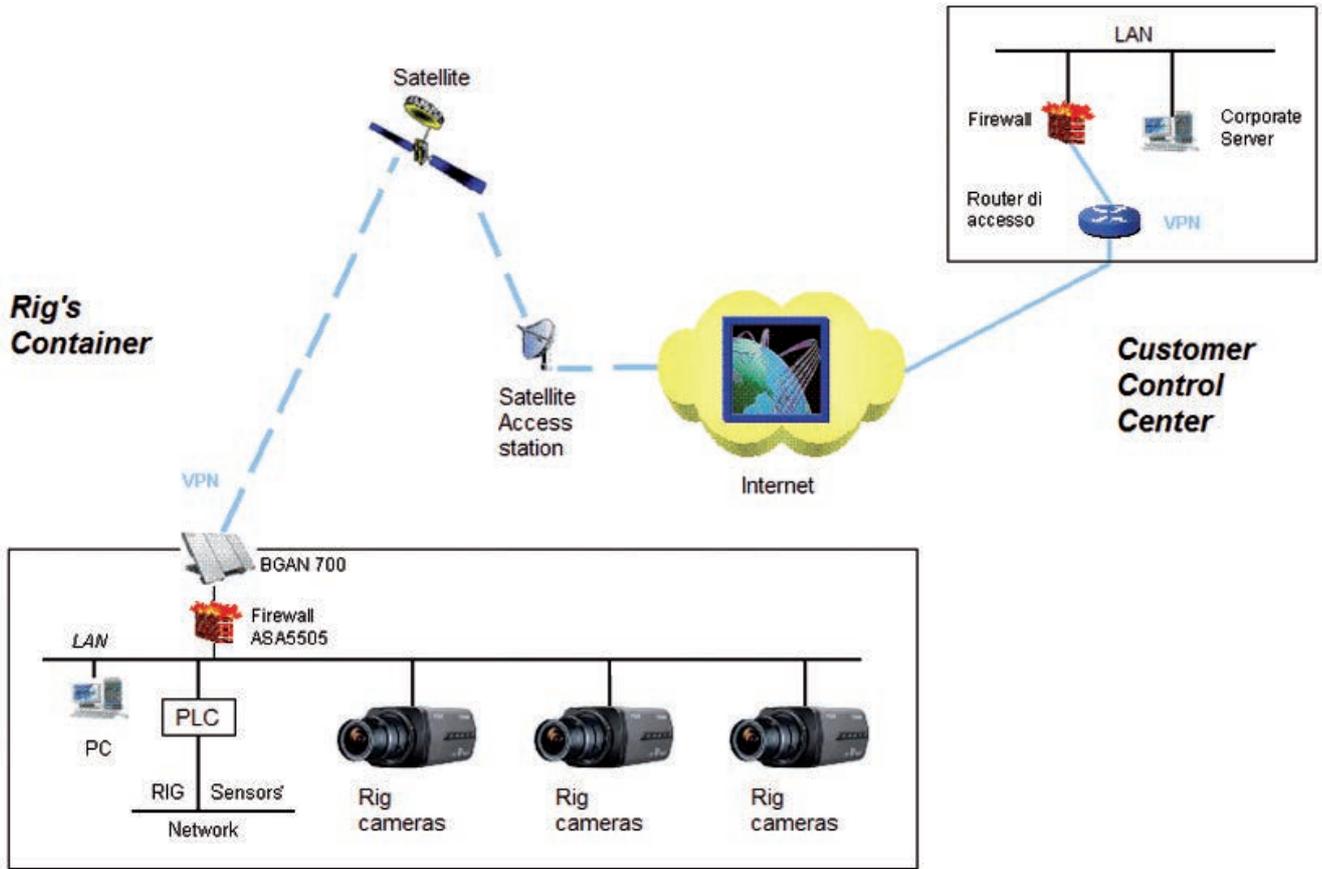
DMS Watchdog® is a software specifically developed for customers.

After the login page, customer can see a satellite map that illustrates where the rigs are located; by clicking on the icon that refers to a specific rig, it can view all drilling parameters of the rigs, like BIT DEPTH, WOB, ROP, TOP DRIVE TORQUE etc...

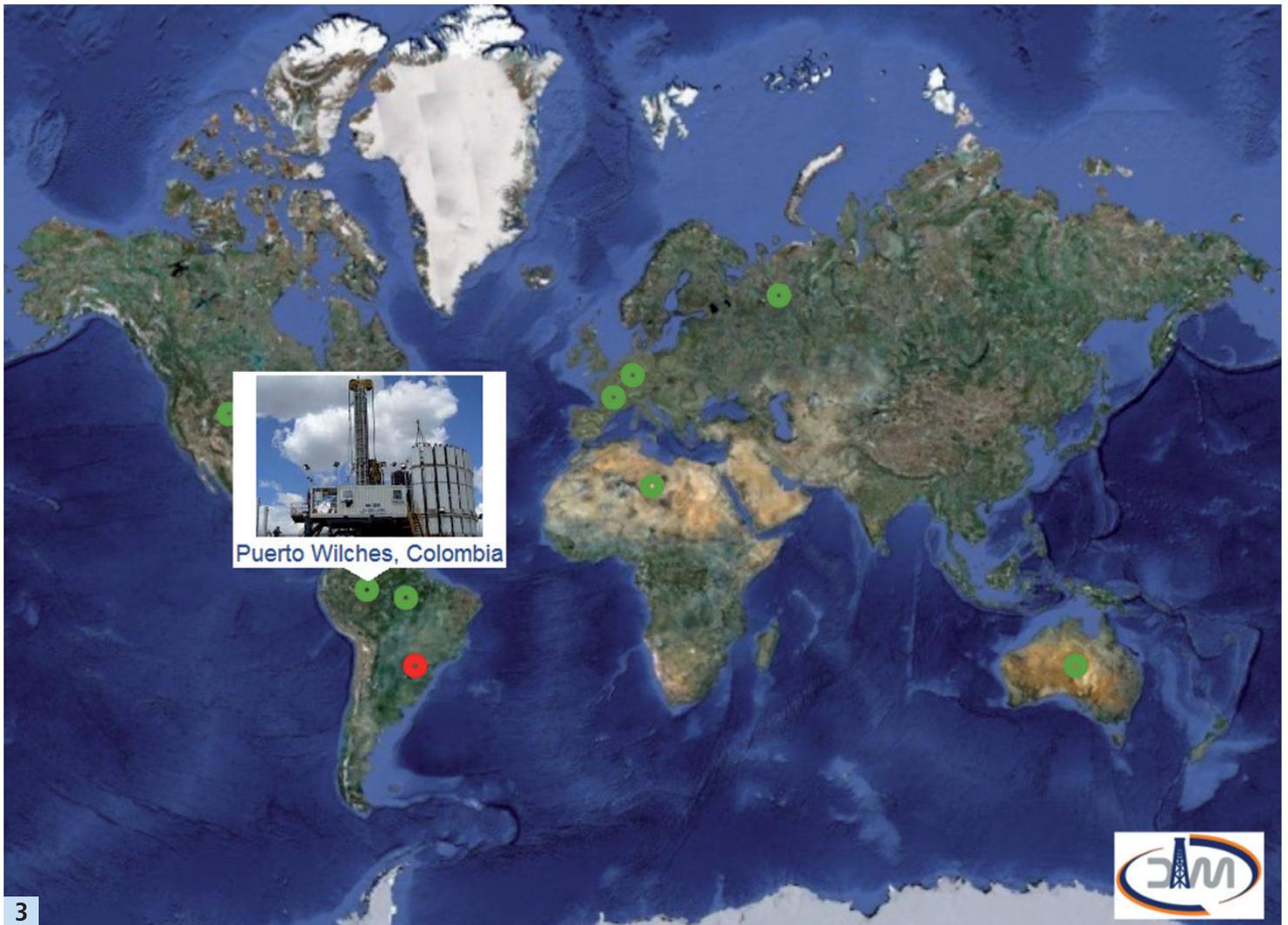
The parameters can be graphed and exported to common formats, like csv, xls and html. In addition, clients can see real-time images of the rig by the cameras installed on site.



- 1 - DMS Watchdog®- Login Screenshots
- 2 - DMS Watchdog®- Network Outline
- 3 - DMS Watchdog®- Satellite Map



2



3



Drillmec policy is one of continuous product improvement, therefore specifications are nominal and subject to change.

commercial network

DRILLMEC SPA - ITALY
DRILLMEC INC. - U.S.A.
DRILLMEC MEXICO - MEXICO
DRILLMEC COLOMBIA - COLOMBIA
OOO DRILLMEC R - RUSSIA
SEISMOTEKHNKA - BELARUS
I.D.T. - U.A.E.
DRILLMEC IRAQ - IRAQ
DRILLMEC INDIA - INDIA
DRILLMEC SINGAPORE - SINGAPORE

05/2012-2000-N-EDIPRIMA S.R.L.



certified quality system



APIQR® Registration no. 0076



Registration no. Q1-0527

COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =



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