

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.

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.



1



2

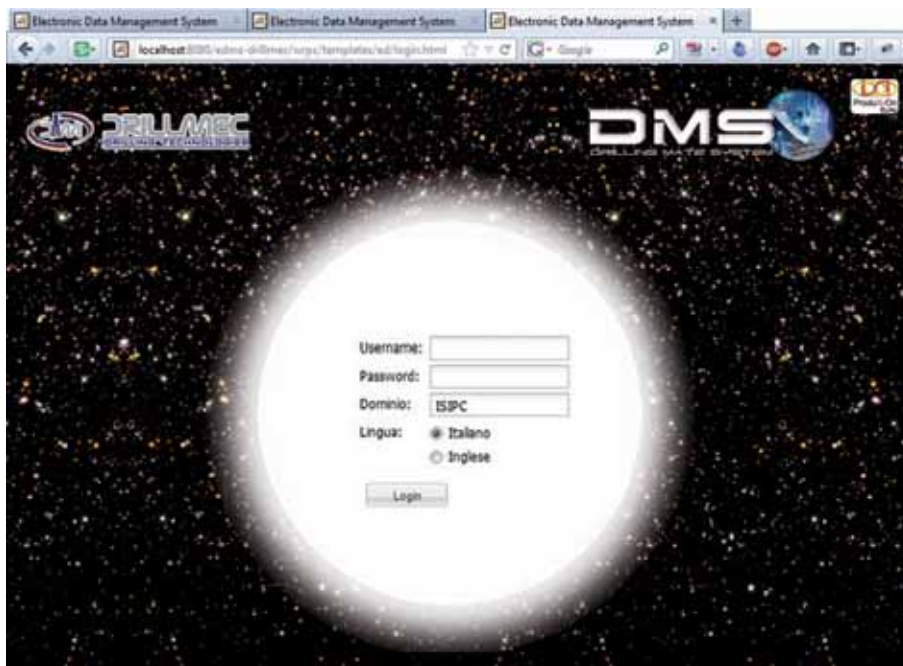
DMS drilling mate system

DMS Watchdog®

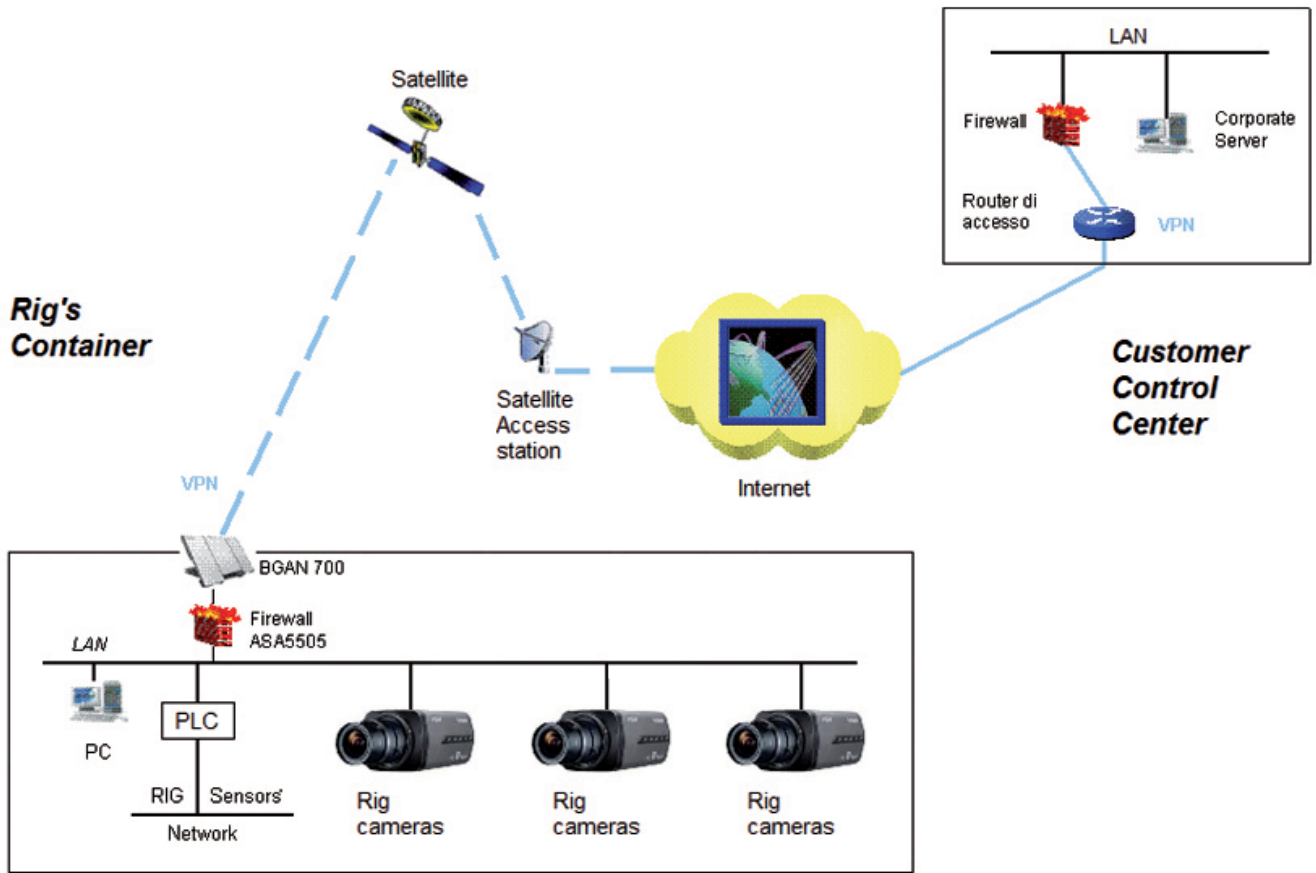
DMS Watchdog® is a software specifically developed for customers.

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



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

commercial network

- SOILMEC LTD. - U.K.
- SOILMEC MISR. S.A.E. CO. - Egypt
- SOILMEC GULF FZCO - U.A.E.
- DRILLMEC INC. - U.S.A.
- OOO "DRILLMEC R" - Russia
- SOILMEC FRANCE SAS - France
- DRILLMEC IRAQ LTD. - Iraq
- SEISMOTEKHNKA - Belarus

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certified quality system

Drillmec quality management system is certified by API (American Petroleum Institute) and DNV (Det Norske Veritas) and GOST-R (Russian approval) for special products

API Spec Q1 Registered
Registration no. Q1-0527

API ISO/TS 29001 Registered
Registration no. TS-0344

API 4F Authorization No. 0002
API 6A Authorization No. 0492
API 7 Authorization No. 0300
API 7K Authorization No. 0845
API 8C Authorization No. 0845
API 16A Authorization No. 0112

APIQR® Registration no. 0076



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