

CCM PRO

Digital Crane



IMES International, the recognised leader in high integrity crane management services, introduces the latest version of its Crane Condition Monitoring and Asset Integrity analysis package - CCM PRO..

Data Acquisition

- Main and distributed acquisition modules
- Acquisition from an array of safety and maintenance sensor types fitted to the Asset
- Data reduction by exception

Manual Data Input

- Thorough examination inspection data
- NDT data -Eddie current, UT and MPI, Acoustic Emissions test

Immediate Safety and Protection

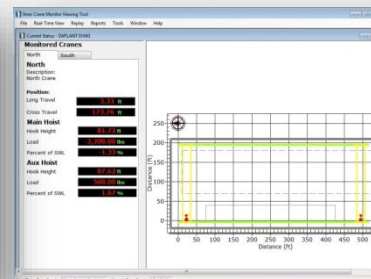
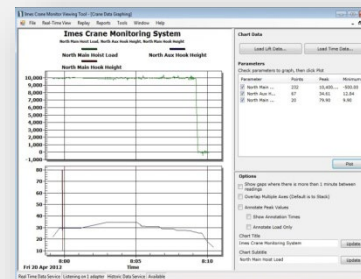
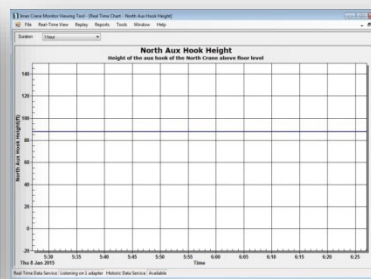
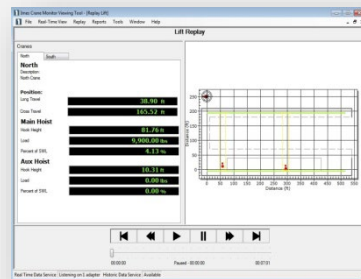
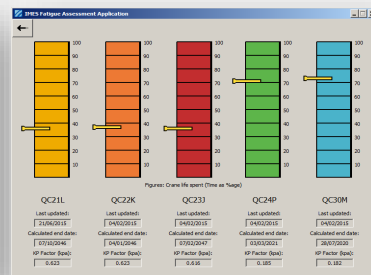
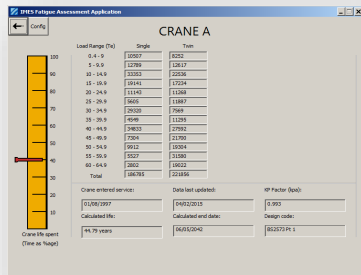
- Asset protection local alarms and interlocks
- Safe use interlocks and trips
- Email and GSM notifications

Asset Integrity Software

- Automatic fatigue clock
- Event logging, alarms and near miss
- Usage data and statistical analysis
- Performance and asset availability data
- Safety and predictive maintenance
- Post incident data review

Central CCM PRO Server

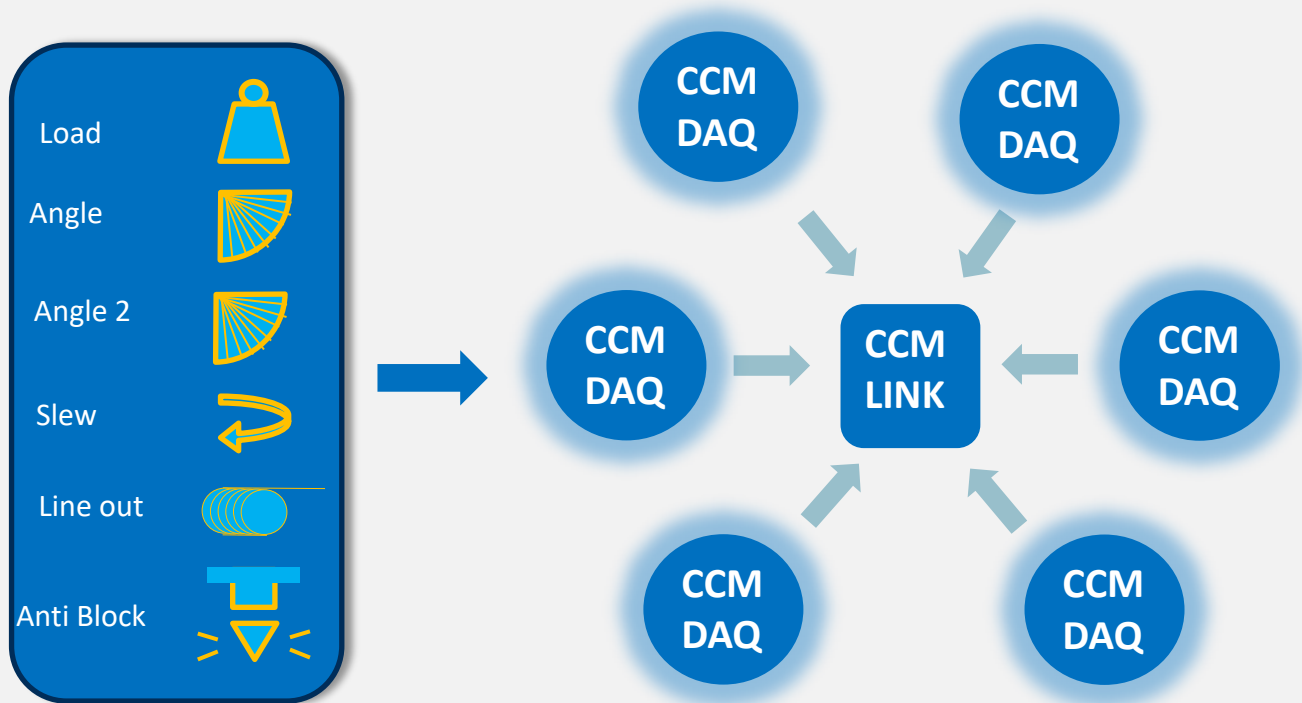
- Central CCM PRO database
- Remote database access
- Portable device access



Remote access crane digital twin..

IMES CCM **PRO** system is a fully scalable data acquisition and integrity management system suitable for local and multiple site monitoring activities.

Operational use data is collected from a suite of sensors mounted on individual assets such as cranes, transporters and lifting equipment. The data is used locally at the asset to provide live safety, health feedback and interlocks with equipment. The main feature however is the use of this data, combined with manually input test, inspection and NDT testing data in a central CCM database and analysis tool. CCM **PRO** provides an instantaneous and ongoing health status for individual assets benefiting safety, asset availability and maintenance planning.



Multiple sensors feed to CCM DAQ

Multiple assets on a site are connected to the CCM **PRO** Cloud based storage via CCM Link - a secure encrypted transfer device and platform. The uploaded pre filtered data from all sites is accessed by the CCM **Pro** Server package, this allows the multi site data to be analysed and made available for remote multi user access anywhere via secure HTTPS.



Multiple remote Assets..One Local Database

Connected Crane Technology Phase 1 Demonstrator

