



INTELLIGENCE DELIVERED

# THE FUTURE OF ASSET MAINTENANCE

DEVELOPED BY:



# THE FUTURE OF ASSET MAINTENANCE



Integrus Toolkit™ is a suite of software applications used to support:

- » Flange Management
- » Leak Testing
- » Additional Pre-com Service Lines
- » Composites
- » Valve And Hose Management
- » Fabric Maintenance
- » MCDR/Anomaly Tracking



## FEATURES

With various modules available on Desktop, Zone 1/21 DIV 1 Tablet and via Web, Integrus Toolkit™ core features include:

- » Designed to support projects with an excess of 100,000 joints
- » Integration with scheduling software such as P6 or MS Project
- » Multi-language support for Work Instructions, Completion Certificates and other reports
- » Import data directly from 3D model, underlying database or MS Excel load sheets
- » Features a PCC-1 calculations module
- » Interoperable with third-party document management systems and CMMS such as Livelink, SAP or Maximo
- » Handhelds capture flange work-scope information in the field in real time
- » Handhelds capture vital information before and after execution of pipework tests
- » Integrated database includes valves and hoses
- » Includes fabric maintenance campaigns capturing data relating to flanges, pipes, pipe supports, temporary repairs and penetrations
- » Real time reporting via web portal
- » Capture test pack information whilst marking up the P&IDs producing packs in a standardised but configurable format

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## PCC-1 BOLTING CALCULATOR

MTEC's Bolting Calculator offers an option to adopt PCC-1 guidelines for determination of Bolt stress, focussing on Joint Component Condition, with the following features:

- » From Inputs the calculator will determine the recommended Bolt stress (Torque or Tension) to provide optimum gasket pressure for joint integrity
- » All critical component stress levels are then displayed
- » The calculator will allow the user to adjust bolt stress as desired
- » Any adjustment to the bolt stress by the user will be reflected by changes in the gasket and flange stress values
- » User can reset to original calculator selected bolt stress
- » Torque or Tension values are then displayed with a record of any user adjustment to calculator selection without additional cost.

### GASKET STRESSES

SETTING / MAKE UP



175 MPa

TEST CONDITION



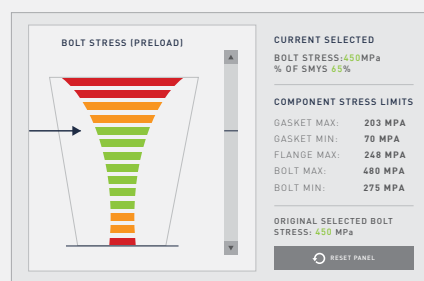
113 MPa

OPERATING CONDITION



148 MPa

### BOLT STRESS



### FLANGE STRESS

OPERATING CONDITION



195 MPa

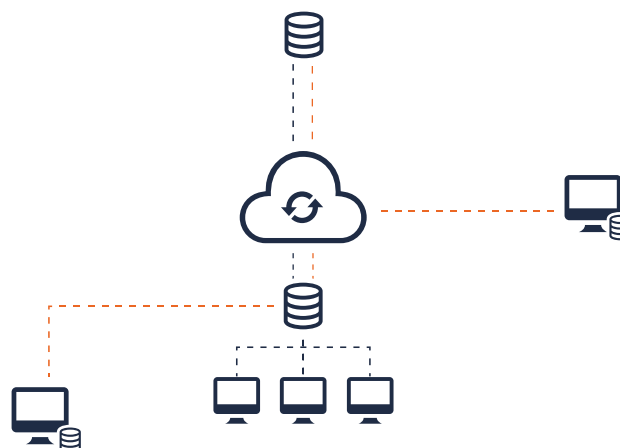
## SYNCHRONISATION

This technology allows one or more databases to be kept in synch with each other. It can be deployed in the following scenarios:

- » Various distributed servers required to keep their individual databases in synch with a central HQ server
- » Two or more remote sites required to keep their databases in synch with each other
- » A laptop is removed from the network to be used in the field and then writes its data back when a suitable connection is available

### DATA HOSTING – A Fair and flexible price model

MTEC do not charge for Data Hosting on a per-flange basis. The package will reflect our hosting and management costs. You own your data and can request this at any time FOC.



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## BENEFITS

- » Fully auditable database supports the asset throughout the entire life cycle from engineering to operations
- » Single source of truth comprising drawings, pipework components and their full operational history
- » Handhelds capture information in real time meaning information is available earlier and without costs and potential errors involved in re-keying from paper copies
- » Promotes safe working practices through the handover of critical information
- » Increase efficiency with reduced man-hours and associated costs
- » Improve accuracy using a proven database
- » Software can easily and rapidly be tailored and developed to meet new requirements and integrate with existing business systems

## WHY INTEGRUS?

Integrus Toolkit™ is a unique software application available on a wide variety of platforms supporting planning in the office, operations in the field and reporting via the web and smart devices. It is regularly updated based on industry best practices and standards. No other application supports integrated Flange Management and Pressure Testing. Moreover, Integrus is evolving to take on an increasing amount of additional pipeline services.

With a vast and constantly expanding track record in diverse projects from construction through to commissioning and operations, MTEC are committed to regularly providing new functionality and also building bespoke user-driven customisations.

Get in touch today:  
[www.mtecsoftware.com](http://www.mtecsoftware.com)





# integrus

TOOL KIT

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