



Integrity Mobile

Surpass energy transition challenges with a next-generation mobile application to collect, analyze and review inspection data in the field

Meet Energy Transition Demands with Agility and Efficiency

Asset-intensive firms are confronting the energy transition by seeking smarter, more innovative solutions to achieve digital transformation. While they invest in renewable generation assets for the long term, they also must maintain aging fossil fuel-running assets to be as safe and efficient as possible. As a new generation of employees onboards, this additional process complexity for inspections creates a pressing need for software tools that can speed up the efficiency and productivity of inspectors onsite.



Addressing your modern business challenges

Operators have assets within their facility that function under extreme operating conditions resulting in the pressing need to conduct regular physical inspections to capture real-time data. To do so, users inspecting these assets must go into field to inspect and record observations, often in hazardous environments, bringing with them relevant equipment documentation. Field inspections must be made easier, more efficient and contextualized to Operations and Maintenance activities.

CHALLENGES

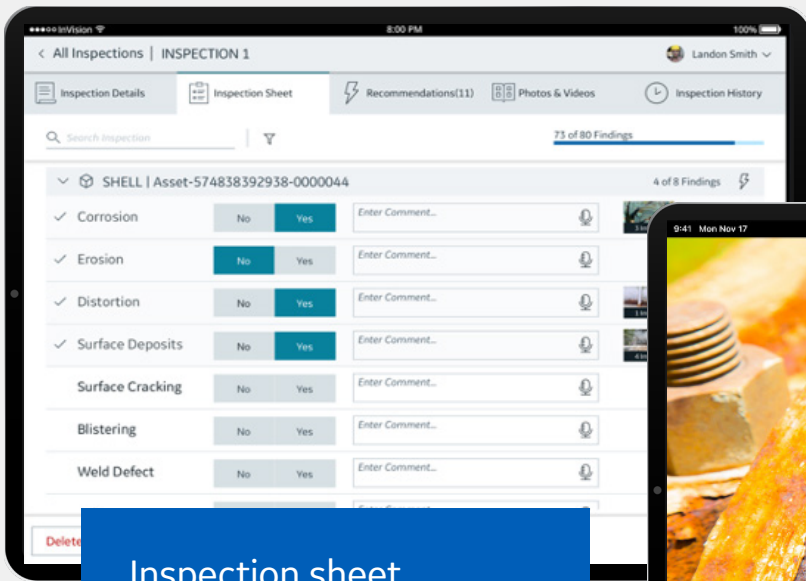
Ease of data collection in the field

Requirement for inspector to carry documents such as manuals or engineering drawings

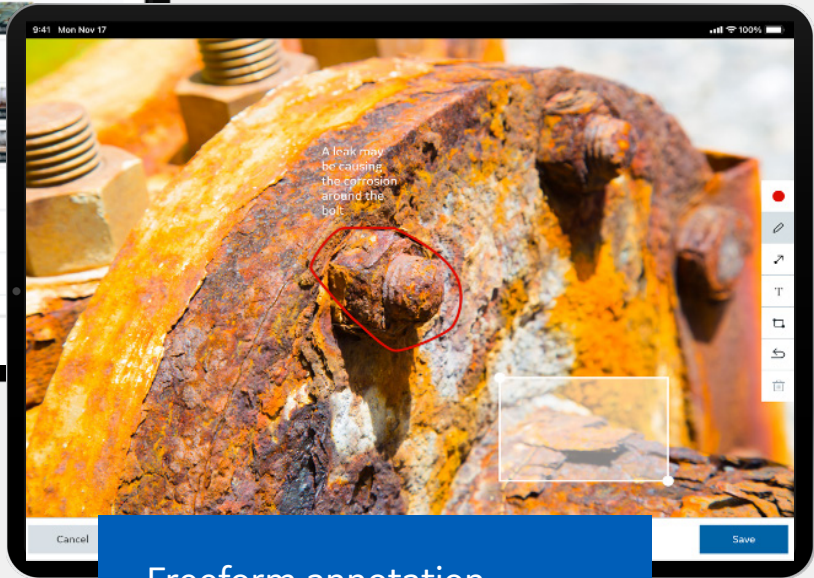
Timely access to important/relevant information of the asset & greater contextualization of data

Limited internet connectivity

Safety in hazardous environments



Inspection sheet
 Eliminates need to collect data in a paper format and then type into a desktop application. Directly sync information to APM database.



Freeform annotation
 Inspectors can annotate images using free hand drawings & formatted text for critical assets in the field & generate recommendations.

Integrity Mobile improves your inspection efficiency and outcomes

Integrity Mobile is a mobile application within GE Digital's Mechanical Integrity Application that helps optimize inspectors' efficiency by digitizing and streamlining the process of data collection in the field. With Integrity Mobile, inspectors and field employees can log inspections, manage inspection tasks, complete inspection reports, capture and annotate images and create recommendations on a mobile device both in online and off-line modes.

NOTE: Integrity Mobile is an add-on for the Inspection Management (IM) Module in GE Digital's APM Mechanical Integrity Application



FEATURES:

- Rich and intuitive mobile user experience
- Built using Microsoft's Xamarin platform (.NET & XMAL) and supported across major platforms like iOS & Android
- Unified View: All relevant information like inspection details, scope, history and images will be available at one single location
- Schematic visualization of scope of work*: View the scope of inspection in an image or equipment drawing that will provide a better clarity on inspection requirements
- Image tagging and annotation: Enables users to annotate the critical sections of an asset and capture real-time observations
- Offline data collection: Users will be able to execute above capabilities in a mobile or tablet while in offline mode
- Supports smaller-form factors (mobile phone)





* Currently in roadmap

Integrity Mobile Functionality






MOBILE APPLICATION

Log in screen	
User preferences	






VIEW INSPECTION TASK

Ability to view planned work	
Shows a list of inspection tasks within time frame of 1 year	
Configurable query	
Ability to create inspection	





VIEW INSPECTION

Ability to list inspections by Inspection owner or Team Member	
Configurable query	
Standard result grid controls	
Navigate to the individual inspection event	
Column chooser	

MOBILE UX FOR SINGLE INSPECTION EVENT

Contain 4 tabs (Inspection details, Inspection sheet, Recommendations, Inspection History)	
Inspection sheet will contain findings and any related sub inspections	
Accordion design for easy navigation	
Ability to search	
Ability to click and view images as thumbnails	

ANNOTATION OF IMAGES FROM MOBILE

Ability to annotate images	
Free hand drawing	
Text mark up	
Add shapes (arrows, square, etc.)	

GE Digital's APM Suite

GE Digital APM increases asset reliability and availability while optimizing maintenance costs, mitigating operational risks, and reducing total cost of ownership (TCO). The software connects disparate data sources and uses advanced analytics to turn data into actionable insights while fostering collaboration and knowledge-management across the organization. Available on premises or in the cloud, APM works across all equipment, all OEMs, and all industries, across the plant, and across the fleet.



Industrial Data Diagnostics

Pinpoint opportunities to improve data quality and asset performance

Data quality recommendations
Benchmark analytics

Failure mode analysis
PM diagnostics

Manufacturer comparisons
Improvement tracker



APM Health

Unified view of assets' current state & health

Rounds / Rounds Pro
eLogs
Health manager
Calibration management



APM Reliability

Predicting equipment issues

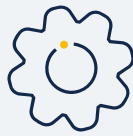
Reliability analytics
Root cause analysis

Performance Intelligence

Thermal Performance and Economic Advisory

SmartSignal

Predictive diagnostics
Digital twin blueprints



APM Strategy

Reduce risk & optimize life cycle cost

RCM/FMEA
Strategy management
Strategy optimization
Strategy implementation
Lifecycle cost analysis



APM Integrity

Helping to keep facilities contained & compliant

Compliance management
Inspection management
Integrity Mobile
Thickness monitoring
Risk based inspection



APM Safety

Reduce hazards risk within industrial processes

Hazard analysis
SIS management
Management of change



APM Foundation / Essentials

IT/OT Connectivity & Integration

EAM systems
HMI/SCADA, Historian, MES systems
Edge OT connectivity and analytics
GIS systems

Data Management & Processing

Common asset model (or) hierarchy
Analytics management and execution*
Infrastructure Data Fabric*
Policy designer
End-to-end security

Monitoring, Analysis & Event Management

Advanced Visualization*
Dashboards, interactive data analysis
Criticality, alerts, cases, recommendations
HMI visualizations and alarms*



GE Digital APM is recognized as an Integrity Management leader in the Verdantix Green Quadrant: APM Solutions 2022.

[LEARN MORE](#)

DEMO

Check out our new interactive demo. Follow a reliability manager & his team of RBI analysts, inspectors & corrosion analysts as they use the “Mechanical Integrity” application to mitigate risks & costs associated with a FCC unit.

[VIEW DEMO](#)

Explore the benefits of APM

- Improves reliability, availability, and productivity
- Optimizes maintenance costs
- Mitigates risk
- Maintains technical expertise (industry and organizational knowledge)
- Delivers continuous improvement

[Learn more](#) about our complete APM offering

It's time to optimize your asset integrity program to reduce risk, lower inspections costs, and improve employee productivity.

[GET STARTED](#)

About GE

GE Digital, an integral part of GE Vernova's portfolio of energy businesses, is a \$1 billion software business putting data to work to accelerate a new era of energy. GE Digital has pioneered technologies like Industrial AI and Digital Twins to serve industries that matter for decarbonization like energy, manufacturing, aviation. Our software drives insights customers need to transform how they create, orchestrate, and consume energy. Over 20,000 customers world-wide use our software to fuel productivity and reliable operations while reducing costs and carbon for a more sustainable world. For more information, visit www.ge.com/digital. GE Vernova, a dynamic accelerator comprised of our Power, Renewable Energy, Digital and Energy Financial Services businesses, focused on supporting customers' transformations during the global energy transition.

Contact Information

1-800-433-2682

gedigital@ge.com

www.ge.com/digital