



Inspection Made Easy Engineered for Simplicity

Fujitsu teraSpection is an end-to-end cloud-based service that simplifies facility inspection using tablets to deliver faster and more accurate visual inspections and audits.

shaping tomorrow with you

FUJITSU

“Missed” Maintenance: Avoidable or Disasters Waiting to Happen?

Today’s headlines have been hogged by news on devastating fires, calamitous explosions and more. Indeed, studies¹ point to the lack of routine and efficient inspection as one of the reasons for these often avoidable disasters.

Legacy paper-based inspection workflows, with delayed dispatching, recording and reporting of inspection data, have resulted in the lack of up-to-date visibility into equipment conditions. These largely manual processes meant ‘missed’ maintenance schedules, “non-existent” recordings from faulty security cameras thought to be functioning, delays in responding to customers’ complaints on water leakage in buildings and more – all catalysts for disasters waiting to happen. *How effective are your inspection processes in circumventing such hazardous and risky repercussions?*

Routine Inspection Critical to Smooth Business Operations and Workplace Safety

Inspections are high risk activities. Routine and safe inspection guided by properly documented workflows, is critical to both the smooth running of facilities and in safeguarding the health and safety of inspectors. Other challenges to effective inspection management include: difficulty in managing the quantity and variety of equipment to be inspected; high re-training costs for inspectors and operators with every equipment refresh; and loss of critical information when senior inspectors leave with ‘head knowledge’ often not captured on paper documents.

Overview: Fujitsu teraSpection

In today’s hyper-connected world, the Internet of Things (IoT) has opened up new possibilities to connect people, things and infrastructure. Fujitsu teraSpection, an innovative approach to deliver faster and more accurate visual inspections and audits, realizes Fujitsu’s commitment to build a safer workplace and environment for businesses to operate in.

Hosted on Fujitsu Trusted Cloud Infrastructure, Fujitsu teraSpection is an end-to-end cloud-based service for facility inspection. Using tablet PCs, the scalable system fully integrates information from the field and the office to efficiently collect, visualize and analyze field inspection data. It is versatile enough to work both online and offline, enabling usage anywhere – even in underground and remote locations without network connectivity.

Backed by a hierarchical information management system, Fujitsu teraSpection helps businesses simplify visual inspection, systematically handle inspection data, ensure safe and accurate inspections, and empower up-to-date insights for more informed decision-making and proactive measures. It is ideally suited for industries ranging from building maintenance, materials or automobile parts manufacturing, to oil refineries, telecommunication maintenance, gas production and more.





Office



Intuitive hierarchical information management



Excel and Diagrams define inspection items

Simple Presets



Site



Information Sharing



Data Usage



Report



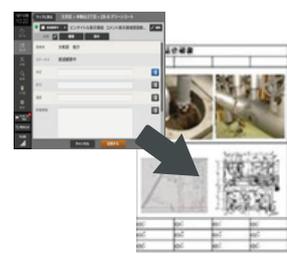
Trend reference

| 入力 | 単位 | 単位 |
|------|--------|--------------------------|
| 流量 | 大野田 概介 | 123.22 kg/m ³ |
| スロース | 経過観察中 | 123.22 kg/m ³ |
| 水圧 | | 123.22 kg/m ³ |
| 圧力 | | 123.22 kg/m ³ |
| 流量 | | 123.22 kg/m ³ |
| 圧縮率 | | 123.22 kg/m ³ |

Mark on pictures



Automatic report creation



Features

- **Intuitive Visualization Using Location Pins:** Utilize location-specific indicator pins to intuitively navigate across inspection sites; display operating status of equipment; input inspection results; view historical inspection results; upload equipment manuals and inspection procedures; and manage inspection results.
- **Hierarchical Information Management:** Drill-down information management based on site and hierarchical information (eg. by district, factory, facility, equipment).
- **Messaging:** Share accurate, real-time information and updates on any pin or facility across all sites to all registered users; send inspection requests directly to field personnel via any pin, facility or location instantly, including attachments of equipment and pin information; recipient clicks on home screen's link on tablet application to see request, view details and perform necessary inspection or maintenance activity.
- **Alert and Alarm setting:** Configure date-based alerts when creating pins, with alerts sent to all registered users; set alarms to notify and remind inspectors and operators on critical matters (eg. time to replace parts and equipment) and routine maintenance.
- **Offline Capability:** Work offline by downloading pin information to tablet PC and switching to offline mode when conducting inspection underground or in remote locations; switch back to online mode after inspection for automatic data upload into the cloud.
- **API Integration with Legacy System:** Support integration and passing of data into legacy systems².
- **Easy Customizability:** Easily customize to user-defined inspection workflows and items, report templates and more.
- **Supported Platforms:** iPad, Windows tablet-enabled; support for App Store and Windows Store.

How It Works

3 Easy Steps to Setup for Immediate Application

Fujitsu teraSpection can be easily applied to your existing inspection operations with this simple 3-step setup:

- Setup inspection templates by uploading facility diagrams/maps.
- Create pins for required inspection actions (define data items including required inspection equipment, item names, meter values etc.) and verify that items can be uploaded successfully.
- Upload report format and begin inspection.

Use Case: Building Maintenance

- **Application:** Monthly equipment check in apartments and shopping malls
- **Challenge:** Tedious manual handling of inspection data both before and after inspection resulted in scattered data that could not be easily retrieved.
- **Benefits:** Enhanced inspection efficiency with standardization of inspection items and reports, cutting time taken for inspection preparation and report creation. Increased quality of inspection data with trend display, upper and lower limit analysis and historical data.

Benefits

- **Streamline operations:** Eliminate manual data handling and streamline operations with automatic transmission and correlation of all inspection data onto the cloud. Minimize data loss with consolidation of all field data on one platform (including text, photos and videos).
- **Reduce potential risks:** Eliminate 'forgotten' or 'missed' maintenance with messaging, alerts and alarms. Avoid potentially hazardous situations, while ensuring health and safety of inspectors, with checklists, visual prompts, intuitive data capture fields, in-built workflow assistance and more.
- **Increase collaboration and ensure inspection quality:** Ease collaboration by easily sharing information and images on specific pins across sites with all registered users. Ensure inspection quality by including and sharing instructions and corrections by senior staff/field veterans. Reduce over-reliance on individuals' personal maintenance know-how and eliminate 'suffering' from knowledge loss due to staff turnover.
- **Enhance responsiveness and increase customer satisfaction:** Empower speedy presentation of up-to-date and historical site inspection information during an emergency. Enhance customer responsiveness (eg. tenant enquiring on water leakage) with visibility into equipment status and inspection reports, thus increasing customer confidence and retention in the long run.
- **Meet ISO audit requirements:** Strengthen adherence to ISO audit requirements with readily available historical and up-to-date inspection information.
- **Simplify budgeting for equipment procurement:** Provide valuable input for future procurement decisions, with historical data providing insights on equipment that breaks down frequently.
- **Enable faster, more-informed decision-making:** Empower faster and more informed decision-making on proactive / preventive maintenance plans to better secure facilities. Useful when submitting proposals to building tenants.

Trusted Advisor. Capabilities That Empower.

Having served more than 2,000 cloud customers globally, you can be assured of Fujitsu's trusted partnership to deliver secure, resilient and high performance services.

Backed by more than 30 years of leading expertise in delivering enterprise-class services, Fujitsu teraSpection epitomizes our commitment to your business success. Hosted on the industry-leading FUJITSU Trusted Cloud, this unique solution is poised to reshape inspection and maintenance processes by revolutionizing the capturing, visualization and communication of inspection data with innovative drill down hierarchical information management – all consolidated in an intuitive tablet application.

Fujitsu innovation. Tap on our capabilities that help you address today's needs while staying flexible for tomorrow. We are here for you.

Footnotes:

1. *Good Practices for Managing Process Safety in Major Hazard Installations and Their Networks, The Italian Association of Chemical Engineering, 2013.*

<http://www.aidic.it/cet/13/31/031.pdf>

2. *Additional programming required for API integration with legacy systems.*

Fujitsu Asia Pte Ltd

Nexus @ one north

1 Fusionopolis Link, #04-01, Singapore 138542

Email: info@sg.fujitsu.com

Web: sg.fujitsu.com

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