

# TRIMBLE FIELD INSPECTOR SOLUTION FOR FIELD ASSET MAINTENANCE AND INSPECTION

## KEY BENEFITS

Simple, intuitive, and easy-to-use handheld solution for field inspection and maintenance

Increases productivity through instant validation and flexible workflow on field forms

Eliminates paper and reduces costs by integrating to utility back office systems - no more double entry of data

Automates asset management activities—from smart meter deployment to valve inspections with simple form building tools

Enables simpler and more consistent compliance with regulations and business processes

## OPTIMIZING UTILITY FIELD PROCESSES

With its high level of flexibility, Field Inspector can automate almost any field data collection activity. Examples include:

- Preventative maintenance and condition assessments of utility infrastructure
- Utility pole inspections
- Transmission line inspections
- Street light inspections
- Meter installation and change out
- Roads, signs and tree inspections



Trimble® Field Inspector solution is a robust maintenance and inspection solution for optimizing utility field operations. This software application leverages the GPS positioning features of Trimble handheld computers to deliver value to utilities of any size. With easy to build forms and interfaces to back office databases, Field Inspector can immediately improve field operations, asset management, and customer service processes at your utility.

The software runs on a range of Trimble handheld devices and integrates with existing utility back office systems, enabling seamless flow of data between field and office. Trimble® Field Inspector has two major components: 1) Trimble Field Inspector Desktop software runs on most Microsoft Windows computers and servers, enabling management of multiple devices, defining field forms, and connecting to Esri ArcGIS or ODBC compliant SQL Server and Oracle databases 2) Trimble Field Inspector for Handhelds runs on various Trimble handheld computers incorporating integrated and external sensors.

## EASILY TRACK AND PERFORM WORK IN THE FIELD

Trimble Field Inspector solution provides simple centralized job tracking and administration to support field deployments of all sizes.

Through a single listing of all jobs and their status, users can quickly and easily identify job assignments and priorities. Upon selection of a job, Trimble Field Inspector software provides a complete list of assets to be inspected along with the status of each inspection task.

Using simple handheld data collection forms, utility field workers can view detailed task information and efficiently complete their maintenance inspection tasks.

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## SIMPLE TO DESIGN FORMS WITH POWERFUL CAPABILITIES

Through automated workflows and smart data collection forms, Field Inspector allows utilities to efficiently manage work assignments, complete checklists, accurately record field activities, and collect specialized data.

Field Inspector tools include:

- **Typical Form Controls:** Checkboxes, select lists and free text entry controls can be configured to accept and validate multiple types of data.
- **Conditional workflows:** Conditional rules can be used for specifying visibility of form items based on previous values or for executing specific calculation functions to process collected data.
- **Sub-inspections:** Multiple sub-inspections may be added on top of the main inspection form and can be used for example in exceptional circumstances.
- **Maps:** GIS maps and aerial photos can be incorporated to show locations of jobs and utility infrastructure.
- **GPS:** Utilizing the GPS receivers of Trimble devices, locations of assets can be recorded during field activities. When the post-processing capabilities of Field Inspector are activated, position accuracies increase to as little as 4 inches depending on the model and capabilities of the handheld computer.
- **Barcode Scanning:** Field Inspector utilizes 1D barcode scanners of supported hardware models. External 1D and 2D Bluetooth barcode scanners are also supported.
- **Rangefinders:** Enables easy measuring of heights, widths and distances of field objects as well as remote GPS recording when using the Trimble Geo7x with integrated rangefinder or external Bluetooth rangefinders like the Trimble Laser Ace (remote GPS recording not supported on external rangefinders)
- **Photos:** All supported Trimble handheld computers support internal cameras. Digital photos can be incorporated directly into the forms enabling easy capture of utility assets, job conditions, and work results.
- **Digital Sketches:** Field employees can markup maps or photos to show more detail than simple text or photos can provide.
- **Electronic Signatures:** Confirmation from customers, contractors, or field employees can be captured and stored for long-term retrieval.

## CONNECT FIELD DATA TO THE CORPORATE DATA STORES

By connecting Trimble Field Inspector Desktop software to an existing Esri® ArcGIS® or ODBC compliant SQL Server and Oracle databases, field maintenance work orders, service requests, and other field activities can be automatically transferred to handheld devices using your company network or cellular connection. Utility field workers can then perform tasks using the predefined workflows and intuitive smart data entry forms. Field captured data is then returned to back-office solutions to update and track asset maintenance work status and history.

## HIGH ACCURACY GPS CAPABILITIES

Trimble gives organizations a choice of form factor and capabilities to meet their requirements for GPS accuracy, field-ruggedness, and the assurance of having the right handheld solution for the job. Differential correction capabilities enhance Field Inspector software while integrating seamlessly with a range of Trimble GNSS receivers to deliver the required accuracy level to meet company or regulatory requirements. The software supports post processing of positioning data back in the office using differential GNSS corrections to improve data quality and accuracy.

## PRODUCT SPECIFICATIONS

Following are Trimble Field Inspector solution products and requirements

### Trimble Field Inspector Handheld software

- Supported field computers with integrated GPS: Trimble Nomad® G series, Trimble Juno™ 3, S, 5 and T41 series, and Trimble GeoExplorer® 2008, 3000 and 6000 and Geo7 series handhelds with latest GPS firmware
- Windows Mobile® 6 operating system (or later)

### Trimble Field Inspector Desktop software

- Desktop/office software: Windows® XP (with SP3), Windows Vista® (with SP1), Windows 7, Windows 8.1 (Professional/Enterprise), Windows Server 2008 or 2012 operating system
- Desktop/office database: Microsoft SQL Server 2008, or 2012 any edition (recommended), Oracle 10g or 11g.
- Desktop/office communication server: Windows Server 2008 or 2012 including related Internet Information Services (IIS) components

### Data Interfaces

- Integration to Esri ArcGIS version 9.3, 10.0, 10.1 and 10.2.
- ODBC compliant SQL Server and Oracle databases

Trimble Field Inspector office components can be installed either behind a company's firewall or on cloud servers such as Amazon or Azure.

