

Affordable Mobility, Smart Business Decisions

**WARSHAW GROUP'S MOBILE VALIDITY ENTERPRISE APPLICATION PLATFORM
MOBILIZES YOUR INSPECTION BUSINESS, TURNS FIELD DATA COLLECTION INTO
INSTANTLY ACTIONABLE REAL TIME REPORTS**

You may think that your business is mobile...but is it?

Bring up "mobility" in a mid-sized engineering or site inspection firm and very likely one will discover a definition of mobility that just doesn't quite hit the mark:

- Your audience members may believe they're already "mobile." They picture their smart phone or tablet, the emails or Facebook posts that follow them everywhere, the GPS that guides them, and perhaps the applications that allow them to shop or play during quick breaks in actual work.

However, this view of mobility misses the point. A company is not truly doing business as a mobile entity unless and until it uses mobility and smart mobile devices in a strategic way to drive effective business decisions. In the case of inspections it means using data captured in the field through mobile devices to quickly and efficiently make informed business decisions based on that data. Mobility eliminates the time and travel delays that typically occur between the time data is captured, and the time that data is validated, stored, aggregated, reported, and analyzed.

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**MOBILE
ENTERPRISE**
WIRELESS SOLUTIONS FROM THE C-SUITE TO THE FIELD

WVG
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GROUP

These same companies may very well consider an “enterprise-grade mobile solution” as being too expensive to implement...but is it?

- Smaller companies typically picture expensive, specialized mobile computers and printers, scanning equipment, and customized, complex survey software and servers. They conclude that the high cost of mobile, customized surveys and data collection will limit them to clipboards, paper, manual data entry and manual reporting for the foreseeable future.

In truth, however, the full, accurate automation and mobilization of data collection is no longer beyond the means of even the smallest firm, for these reasons:

- The enormous consumer adoption of multifunction smart phones and tablets has put wireless data exchange and computing power in the hands of workers everywhere. Often, it has also saved employers the cost of equipping employees with end devices.
- The ubiquity of wireless Internet access has made the physical location of servers irrelevant, giving rise to a vendor-hosted, “cloud” deployment model that is spreading to all business tasks, including field inspection/data collection. Businesses can have all the functionality of best-in-class mobile applications with none of the liability, capital expense, maintenance burden or IT personnel that on-premise servers require.
- The Swiss army knife capabilities of today’s mobile devices eliminate the need for specialized scanners, cameras, and printers. And if properly designed for its market, cloud offerings work with any hand-held device the company or field staff is likely to own: Blackberry, iPhone, iPad, Android, and Windows Mobile, as well as tablets and traditional field devices such as those from Intermec and Motorola.

One company with long experience in the field of site inspection has leveraged these new mobility factors to come up with a new inspection software system. That company, Warshaw Group, created the Mobile Validity Enterprise Application Platform, which turns paper practices into application-specific, intelligent digital tools. Mobile Validity was developed with a strong understanding of the field inspection marketplace, and the platform is offered with a number of different pricing models to meet the needs of any company, large or small.

With Mobile Validity’s hosted or on-premise MV-Prime service, inspectors and researchers – anyone who once held the clipboard – can now enter data that gets validated, geo-tagged, and popped into databases in real-time. They can enhance their reports with photos and sketches, signatures, geo tags and bar codes. Administrators can see the data as it accumulates, and follow up while personnel are still on site. With an easy, online application development tool, it even enables administrators to imbed the decision trees and intelligence that can guide the field worker’s line of questions.

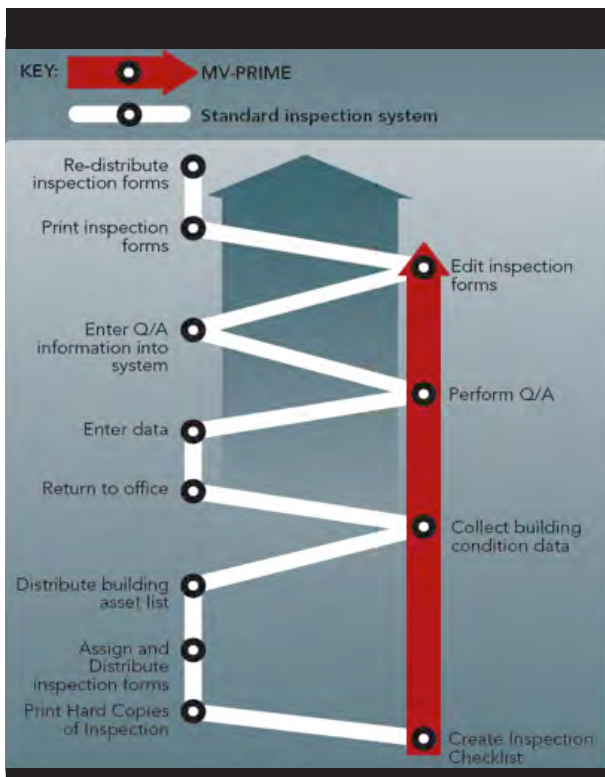
With Warshaw Group's Mobile Validity Enterprise Application Platform you gain the following:

Inspection Applications - easy to design, update, and push to devices

- With browser-based access, MV-Prime's users can log in at will and design or reconfigure new inspection data fields from any PC or laptop with drag-and-drop ease. No programming experience is needed. Well-understood entry conventions, like drop-down menus, radio buttons, text fields and either-or choices make short work of survey design and field entry.
- Administrative control is similarly via browser and in the cloud, allowing supervisors to send new or updated applications to all devices via the web. Version control, security assignments and device updating can all be performed without bringing devices or people in from the field.
- MV-Prime requires little start-up effort to stand up, and is offered as either a premise-based solution or as a hosted service.
- With no data center hardware or software to install, the MV-Prime solution can be up and running for an organization in days or weeks, not months.

Beyond ROI

- The MV-Prime service brings benefits to data collection that go beyond time and money savings. It brings new elements to the task of data collection and site inspection.



MV-PRIME REDUCES THE MULTI-STEP, REITERATIVE EFFORT OF INSPECTION DATA COLLECTION TO ONE REMOTELY MANAGED, STRAIGHTFORWARD PROCESS.

Remote Employee Management

- With MV-Prime and the mobile devices already on hand, remote workers can upload their inspection data wirelessly straight into databases, making it visible to properly authenticated personnel. Managers anywhere can instantly follow up with additional instructions or questions, before their workers leave the site. Critical situations can be attended to proactively, before the inspection is even completed.
- Inspections can be designed to follow businesses rules and branch in different ways, depending on data values. Built-in logic and deep decision trees present only the questions that are relevant to each inspection task and assessment variable, saving time.
- MV-Prime also enforces proper workflow and completeness, by automatically rejecting submission of inspections until all required tasks are completed.
- The GPS and geo-tagging functions on smart phones give inspections time and location stamps; digital signatures of inspectors also help prevent fraud. On campuses with many buildings, inspection locations can be highlighted to save time and prevent error. Routes can be updated on the fly and sent to specific devices when needs change.

- Smart phone cameras can attach pictures or hand-drawn sketches to data, reducing the worker's gadget load. Handhelds can also serve as reference guides, storing instructions, definitions, and contact information.

Intelligent Data Capture

- With MV-Prime's integration API, field-collected data can flow automatically into backend databases, accounting, ERP, asset management and other systems. Support for Microsoft SQL and Oracle comes standard, as does file export, online dispatch, scheduling and provisioning.
- MV-Prime can be programmed to attach costs and other parameters to observed conditions, building evaluation and analysis into data as it is gathered. Built-in algorithms can calculate such things as remaining useful life of components, saving the lookup steps and calculations of paper-based inspections.
- Built-in route mapping allows managers to swiftly redraw and push routes to the field as needs arise.
- All supported media can be captured alongside data fields and stored to the cloud in an organized, indexed, and scalable way.

Knowledge base

- Handheld units serve as a mobile knowledge base, displaying relevant reference information on-screen to guide field workers with terminology and location photos.
- Users never have to guess when inputting selections, as choices are defined on-screen to ensure accurate data entry.

Inspection Application Development

- Mobile Validity's Questionnaire Developer is a tool that non-programmers can use to maintain institutional control over all work performed.
- A choice of question types helps administrators design the inspection task as well as the data collected: pull-downs; sketches; number, photo, GPS input and more. Its drag-and-drop interface removes the need for programming experience, and automatically fits the survey application to the screen size and capabilities of whatever mobile device is being used. Further, the developer tool guides the user in turning questions and input fields into intelligent applications, applying workflow to enforce business rules and best practices in inspections. Questions can drill down hundreds of levels or branch in any of dozens of ways, creating a program for the end user that incorporates all available knowledge and expertise. In effect, inspectors are given a mobile inspection guide to hold, ensuring proper procedures are followed and data is reliable.

Control Center

- After applications are built with the Questionnaire Developer, Warshaw Group's Control Center enables administrators to also control their deployments, via cloud, from anywhere in the world. Users can build deployment groups, update devices with new or modified inspection applications and redeploy resources on the fly.
- Control Center also serves as an advanced reporting engine, gathering data from mobile hardware, generating custom reports from the data, loading the information into the backend system and logging a copy of the report for backup. The result is a secure process that protects data integrity. Like the inspection applications, data reports are flexible and easy to use.

Finally, Warshaw Group's expertise in mobile inspections goes back over 15 years, long preceding the advent of popular mobile computing devices. As application service providers, the company maintains long-term customer relationships, providing ongoing technical support and maintenance. It continues to develop, enhance and upgrade client systems over time as technologies emerge and customers' needs evolve. The company and its partners also offer professional services to clients in advanced planning tools, tighter, real-time two-way integration, and ad hoc query and reporting capabilities.

ABOUT WARSHAW GROUP, INC.

Founded in 1996, Warshaw Group, Inc. creates enterprise data solutions and develops Mobile Validity, an enterprise mobile applications platform. Warshaw Group, Inc. develops, designs and supports systems for clients in many different industries, including facilities management, engineering, transportation, education, not-for-profit, political and government organizations. www.WarshawGroup.com

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