LATISTA

ZERO DEFECTS
ZERO DELAYS
ZERO PAPER

TOTAL QUALITY & COLLABORATION SOLUTIONS

LATISTA FIELD

- Quality (QA/QC)
- Punchlists
- Production Tracking
- BIM in the Field
- Materials Tracking
- Commissioning
- Safety

LATISTA FIELD Solutions Overview

LATISTA Field on tablet PCs allow users to automate processes on the jobsite to finish with Zero Defects, Zero Delays, and Zero Paper.

LATISTA Field allows project managers to automate the field processes associated with capital projects: safety and quality inspections, owner collaboration, subcontractor management, material and production tracking, and documentation.

With LATISTA, superintendents are more efficient and informed. They can respond to requests for information quickly and accurately, access and update building plans and information, and record everything for use after construction.

Issues Deficiencies & Punchlist Inspections

Automate jobsite processes to reduce inspection times, facilitate reporting, get information to responsible parties faster, improve accuracy, reduce rework, and speed up schedule and turnover.

Quality Plan (QA/QC)

Implement a total quality program to ensure the completed building is "Fit for Purpose" and "Right First Time." Apply rolling inspections with comprehensive checklists to eliminate defects and mistakes during the process.

Safety

Store safety guidelines and conduct thorough inspections for an easy and powerful solution to keep the jobsite safe, documenting performance, and keeping team members informed.

Materials & Items Tracking

Realize lean operations and establish control over critical items from manufacturer to installation. Newly implemented RFID and barcode scanning technology automates item inspections and documentation.

Production Tracking

Combine QA/QC, materials tracking, installation and responsible-party schedules to manage phases of construction where each event status must be updated before the next one can start.

BIM Integration with the Field

Leverage BIM information to enhance field management processes. BIM data and models can be viewed in the field and used to set up location structures in LATISTA with our unique integration engine.

Commissioning

Automate scripts, track systems and equipment status, and document the full inspection and commissioning process. Once complete, owners can sign their approval directly on the tablet and be left with a complete construction record.

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ZERO DEFECTS
Quality Is Our Focus

When construction companies create the goal of "Zero Defects" for their quality programs, the strategy they implement is often one of Total Quality Management (TQM). At LATISTA, we use this as a frame for building the solution needed to enable this process.

TQM is not a new concept, having been proven over several decades in the automated manufacturing industry. It is taught by leading business schools worldwide as a cyclical process of continuous improvement.

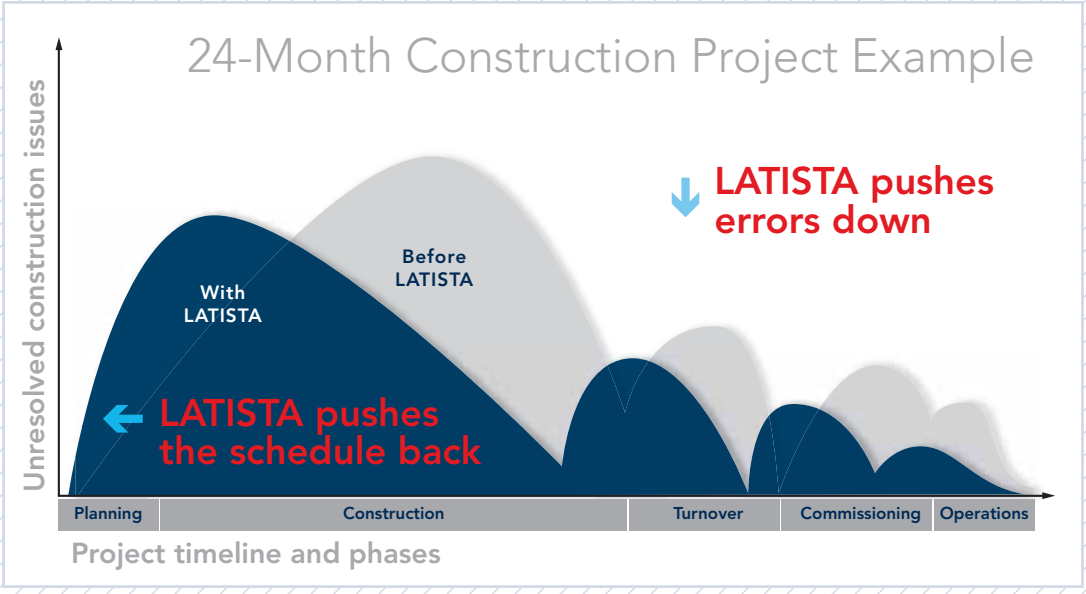
The LATISTA Field software solution has been designed around the concept of Total Quality Management and provides the field automation and management solutions needed to improve processes in a TQM environment. LATISTA Field allows for a start-to-finish automated QA/QC program that creates the documentation needed to take corrective actions for future improvements. The application of this solution has allowed leading companies in the industry to gain operational efficiencies and improve quality before, during, and after construction is complete.

Automate & Improve:

- **Generate reports and graphs to track performance, so you can hold responsible parties accountable for quality guarantees**
- **Ensure that a procedural quality plan is followed and completed with automated work-flows and document management**
- **Enforce company-wide standards with global forms and checklists**
- **Defend against legal liability with database-driven information and iron-clad records of corrections, communications, and results**

Rolling QA/QC Inspections keeps outstanding issues under control

Projects use this method to catch issues and deficiencies early so that the total number of outstanding issues is kept at a manageable level throughout the phases of the project. This has the benefit of improving quality and reducing construction, turnover, and commissioning times.



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ZERO DELAYS

Fast Inspections & Turnaround

LATISTA's interactive workflow speeds the construction communications process, reducing the issue identification-to-resolution time from several days using pen-and-paper methods to a few hours. When issues are corrected efficiently, quality improves and turnover on even the most complex projects occurs months early.

Communication is the key to avoiding delays on the jobsite, and LATISTA Field improves the connections between stakeholders to reduce the communications delays that plague projects. LATISTA project participants can share and update plans and drawings, specifications, materials tracking data, and deficiency reports instantly over LATISTA's exclusive Collaboration Web.

Automation Efficiency

- **Send issue reports illustrated with marked-up drawings and photos to improve correction turnaround time and accuracy**
- **Schedule inspections, notify responsible parties, fill out online checklists, and sign-off on corrections all without visiting the trailer**
- **Access and update Autodesk® Navisworks and Tekla® Structures BIM drawings with materials- and production-tracking information to avoid schedule delays and conflicts**

"Our old system took three times as long, since we were recording issues in the field on paper, transcribing them, and setting them in a report.... LATISTA was a one-button operation."

Scott Widmann
Clark Construction Group, LLC
Project Engineer

LATISTA Collaboration
Connect all Stakeholders To the Jobsite in Real Time

LATISTA Field reduces jobsite delays by making your communications more efficient. LATISTA's collaboration web allows users in the office and users in the field to share information over a common, web-based server. Automated emails and notifications improve communication response time, and stored documents and drawings improve deficiency recording accuracy.

Field Personnel
Project Engineers
Quality Inspectors
Supervisors
Safety Inspectors
Subcontractors

Office Staff
Owners
Project Execs.
Architects
Engineers
Construction HQ

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Total Access in the Field

A construction market designed tablet PC allows you to take your office into the field without sacrificing power or usability. Using a standard Windows operating system with LATISTA Field and loading your forms, drawings and inspections into the tablet PC creates a versatile mobile inspection platform that maximizes time and effectiveness.

LATISTA's field-ready construction software works offline in the field to synchronize with a central, secure server that stores and manages documents. With an easy-to-use interface and a short learning curve, it is designed with the fast-paced construction industry in mind. With the LATISTA mobile platform working online in the field, the inspection and reporting process is faster and more accurate, improving collaboration with subcontractors and office personnel. By tying the work done in the field on the tablet PC to all stakeholders through the web server, users can communicate quickly using the same information.

Zero Paper Automation continues on the next page...

Mobile Tablet Computers Automate in the Field

Tablet computers, also known as "slates" or "pen computers," are more portable than a laptop without sacrificing power or usability. Construction industry computer users can take full advantage of tablet computers' mobility, features, and connectivity. With even basic functions, a tablet PC can take all the necessities of scheduling, note-taking, and emailing into the field where supervisors can maximize their time and effectiveness.

Using a tablet, the inspection and reporting process is faster and more organic, which leads to faster defect corrections from subcontractors. Tablet PC users can communicate more quickly on a jobsite. When paired with a comprehensive field management program like LATISTA Field, tablet computers are easily the most efficient way to control data, manage documents, automate inspections, and facilitate collaboration and communication with owners and subcontractors, thus reducing costs and accelerating build times.

- **Outdoor display, readable even in sunlight**
- **Built-in, high-quality digital camera**
- **Handwriting recognition**
- **Seven-hour battery life**
- **Available RFID and barcode readers**

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LATISTA FIELD Automation

Electronic Workflows & Approvals

End users can create and manage simple to complex workflows using LATISTA Field's powerful electronic workflow engine. Designed to be easy to use and administer, this unique and powerful feature allows customers to fully automate their construction processes. Email alerts and notifications instantly inform end users when action is required, for example to approve an inspection or status a punchlist item. Escalations to managers and backups are notified if workflows processes fall behind their intended approval schedule. Maintaining workflows helps to save time and keeps a project on schedule.

Customizable Forms & Checklists

Inspections, tests, plans and procedures, checklists, and other forms can be created, customized, and maintained in LATISTA Field. LATISTA's forms and checklist template feature allows global setup and maintenance of inspections and procedures tailored to the unique requirements of each company, division, or project. This feature also allows for access control to each inspection and test based on user roles and assignments to projects or task. No computer coding or special language is required to set up even the most complex forms; the LATISTA Template feature is designed to easy and simple to use.

LATISTA Content Library

LATISTA Field automation experts are constantly creating and updating an extensive library of inspection forms, checklists, and specifications, to make getting started with the LATISTA solution even easier. The LATISTA Content Library can serve as the basis for a company or project quality plan, with customizable features that fit current and future needs. Library contents are ready to go out of the box for immediate, quick reference in the field to save time and improve intelligence on the jobsite.

SaaS vs. Self-Hosted Service

LATISTA customers have the option of having LATISTA maintain their database servers and security for them or to take control and host themselves. The Software as a Service (SaaS) model means that LATISTA sets up and manages all the hardware, Internet connection, security, and backup for customers. LATISTA has a state-of-the-art hosting facility that provides unlimited, traffic on multiple dark fiber links. Customers that choose to self-host can feel confidence in having complete control over their own software solution.

LATISTA electronic approvals allow contractors and owner representatives to collaborate in the field on QA/QC. Working together results in faster turnover with zero-defect quality.

With LATISTA Field, personnel have access to forms, checklists, specifications and other information anywhere on the construction site. This knowledge base makes the jobsite more intelligent.

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Features

Electronic Specs & Drawings Management

All project specifications, plans, and drawings are loaded and maintained in LATISTA Field. Documents are managed and stored securely, and can be sorted and filtered by project, area, location, system, or inspection for easy reference. Once loaded, documents are automatically synchronized to mobile tablet PCs, providing them instant access to the latest documents for markup, review, and referencing in the field. LATISTA can integrate with other document management systems as well.

BIM Models in the Field

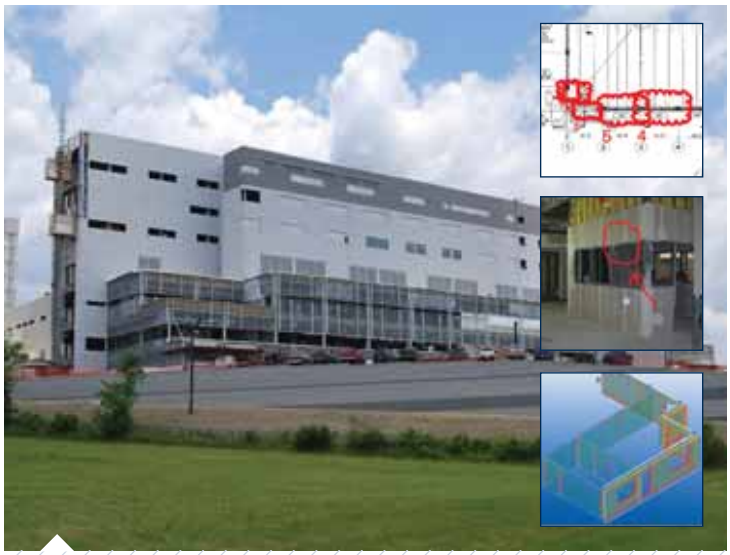
LATISTA Field integrates building information modeling (BIM) capabilities with Tekla Structures® and Autodesk Navisworks® in the field. The combined solution allows construction project stakeholders to better track production, materials, and quality and to view color-coded statuses in the BIM model during the construction process. LATISTA Field is the first software of its kind to integrate BIM models that users can view and update in the field using portable tablet PCs. Because combining BIM and mobility improves communication and collaboration, architects and owners can reference the same project information, in a 3D context, as field engineers and inspectors.

Reports Generator & Distribution Engine

LATISTA's unique and powerful reports generator enables inspection forms or inspections to be instantly combined with marked up drawings, annotated specifications and or photos to create comprehensive and professional reports. Reports can also be generated for contractor or subcontractor notifications, automating the task of contractual notifications to responsible parties, for example safety notifications, punchlist items, or work-to-complete lists. Once reports are generated, automatic email notifications link responsible parties to reports and enables users to search, filter and print them for their own business needs. This time-saving feature has proved to cut 50-70% of time off current back-office reporting and distribution procedures.

Photo Management

Many tablet PCs are equipped with built-in, high-resolution digital cameras that allow users to illustrate issues recorded in LATISTA Field with on-site photographs. These photos are time-stamped and indexed with the associated issue, can be marked with notes, and appear automatically when that issue is accessed or published in a report. Photo illustrations help eliminate jobsite confusion by pinpointing issue locations clearly and aid in documentation with before-and-after annotations.



LATISTA Field inspections and reports can be illustrated with marked-up plans and drawings, photos, and BIM models. Illustrations are automatically time-stamped and indexed to be associated with the appropriate issues and deficiencies, and drawings and models are version controlled, to ensure that everyone is working with up-to-the-minute information. When reports are generated, illustrations appear alongside issues to reduce confusion and improve correction turn-around time.

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ABOUT LATISTA TECHNOLOGIES

LATISTA has been a leader in mobile and web-based construction field management software and services since its founding in 2001. LATISTA's mission is to enable contractors and capital project owners to dramatically improve operational efficiency and deliver higher quality facilities on time. By offering a comprehensive enterprise field management solution, our customers receive real-time information and documentation that speeds up production, reduces legal and financial risk, and increases profitability. Contact LATISTA today to sign up for a demo and see first-hand how our software can benefit your next project.

WINNER

2008 FIATECH CETI Award for Intelligent & Automated Construction Job Site

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