Mobile apps for Inspection, Maintenance & SGR

Case study: LA Metro’s use of Connixt cloud-mobile solution for its Rail, Bus, Wayside, Signals, Facilities and SGR

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Why mobile apps for maintenance/SGR?

- Paper-based processes not Green, cause delays with the transfer of information to Fleet Management System, error prone
- Standardization issues/Lack of consistency (Who? What? When? Where?)
- Interpretation issues—each employee can look at the same item and come to a different conclusion
- Tracking inaccuracies
- Not easily scalable – especially when changes need to be made to the fleet and procedures
- Need to carry reference materials - manuals, drawings, procedures
- Reporting requires accessing multiple systems, dockets and files
There is a cost to this problem

Between 38% to 57% of time spent on zero-value added activities like WO management, chasing paper and parts ordering.

Source: The Service Council, 2015

- Data is not accurate/real-time
  - 4 hours to 3 days time lag
- Time spent on data entry, error correction
  - ...and walking to and from terminal
- Compliance & Safety
  - How accurate is the data?
  - “Show me the maintenance records of...”
iMarq™ fixes this problem for Transit agencies

**iMarq** - mobile app suite for the transit industry from Connixt

Digitize inspections, maintenance, SGR & reporting for workshop, field and facilities

Your forms the way you use them, integrated with your back-end systems

- Pre-built
- Workflows
- Configurable
- Reporting
- Cloud-based – No additional hardware or software
iMarq™ - Mobile App

- **Any device, anywhere**
  - Android/iOS; Tablets & Smartphones
  - WiFi/LTE/Offline

- **Configurable**
  - Inspections, forms, checklists, Work Orders, Incident Reports
  - Job-on/job-off
  - SGR, inventory, condition assessment

- **User-friendly, low training**

- **Integrates with back-end system(s)**
  - Can operate standalone
  - Rapid deployment
Mobile @ Metro – Connixt iMarq

• Flexibility
  • App configured with Metro’s own forms
  • Works with any smartphone, tablet, iOS, Android

• Scalability
  • Can grow to meet current and future needs @ Metro
    • E.g. SGR, Facilities, FRA certification etc.

• Usability
  • User friendly native apps – increases usability, minimizes change management and training
  • Uses common features like photos, speech-to-text etc.

• Speed to deployment
“...20% labor efficiency gains within months of implementation and projected 400 man-hours a day of savings with iMarq” – LA Metro

“Connixt represents a 10X savings on market alternatives, and faster deployment with greater flexibility.”
How iMarq works – 2 Steps to get there

1. Configure Connixt MXF for integration, business rules etc.

2. Field Users download iMarq™

- FIELD CREW,
- SUPERVISOR, ASSET,
- MANAGER
iMarq – a single platform for agency needs

**Rolling Stock**
- Inspection & Maintenance
- Scheduled/PM/Pre-trip
- Incident reporting

**Contractors / Infrastructure**
- Progress updates
- Time-sheets
- Safety

**Facilities & Assets**
- Condition Assessment
- Inventory
- Service request

**Automated Reporting**
- MAP-21
- SGR
- e-TAM
- Inter-agency data
Mobile @ Metro today

- Bus & Rail Daily Inspection
- Track Inspection
- SGR
- Bus & Rail QA
- Bus and Rail PM
- Rail Wayside
- Incident Reporting
- ECR
- Bus Equipment (ATMS and UFS)
- Facilities Management
- General Services
- Rail/Bus PM
- FRA certification

- Annotated photos/drawings, speech-to-text
- Inspections PDF with photos & signature
- Automated corrective WOs
- Auto-create & close WOs for repairs
- Reference material & instructions
- Assignment, approvals and workflows
- Job-on/job-off
- Automated, formatted mandatory reports
- Configurable, easy to change forms
How it works

- Receives WOs for the day on queue
- WO comes attached with relevant forms, processes and instructions
- Respond to WO by performing action, then recording an inspection

- Schedules, progress and exceptions available real-time
- Schedule, assign, approve, expedite
- Automated reporting, tracking, review KPIs
What Bob wants

“Use YOUR forms, not some canned form”

“Modify and add any forms, workflows and business processes & deploy instantly”

“Use offline when you don’t have data connectivity”

“Integrates with your existing systems”
“When can we actually see all this at work?”

48 hours from NOW.
Your team can download iMarq with YOUR forms configured for use
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Visit: www.youtube.com/Connixt
iMarq™ - Mobile Suite for the Transit Industry

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