e-Ticketing and Unifier

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e-Ticketing: FHWA EDC-6 Initiative

Definition:
• A paperless process for tracking, documenting, and archiving materials tickets, accessible in real-time via mobile devices.

Types of e-Tickets:
• Initially, Hot-Mix, Concrete, Borrow, Aggregate.
• Potential later additions, rebar, pipe, drainage inlets, structures, guardrail, signs, etc.

Benefits:
• Enhances project delivery.
• Integration with Unifier.
• Quality of information.
• Archiving the tickets in a digital format.
• Improves accessibility of project data.
• Time savings.
• Improvement in safety.
  • Reduces exposure to vehicular traffic.
  • Less human to human interaction (Covid).
e-Ticketing Process Checklist

Legal and DTI
• Agree to the Terms Of Use and Conditions.
• Agree to the Delaware Cloud Services Terms and Conditions
• Compliant with DelDOT record retention guidelines.

Material Producers and Suppliers:
• Address concerns from the private sector.
• Develop an integration program to convert suppliers ticket data.
• Run a pilot and develop a timeline for implementation.

DelDOT Departmental Integration:
• Integrate tickets produced and sent to the central hub into Unifier.
• Address concerns from Support Sections and Maintenance to integrate their processes.
• Train staff and consultants with the new process.
• Update the Standard Specifications.
e-Ticketing Workflow

Supplier A
Supplier B
Supplier C

DeLDOTS Slip
“Central Hub”

ORACLE
### Project View Inside DOTSlip

<table>
<thead>
<tr>
<th>Contract Number/Project Name</th>
<th>Item Number/Item Description</th>
<th>Ticket Access/Staff Information</th>
<th>Daily ticket tonnage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DelDOT TESTING PROJECT 01</strong></td>
<td>2581 - 3/4&quot; CSTC</td>
<td><a href="#">View Project</a></td>
<td>0.00 Tons</td>
</tr>
<tr>
<td></td>
<td>2407 - PITRUN - DREDGED</td>
<td>0.00 Tons</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2596 - INCOMING CLEANFILL-BACKHAUL-CY</td>
<td>0.00 Tons</td>
<td></td>
</tr>
<tr>
<td><strong>DelDOT LIVE TICKET TESTING</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>92083823 - 5.97-X</td>
<td>79.76 Tons</td>
<td></td>
</tr>
<tr>
<td></td>
<td>42289093 - 4.86-W</td>
<td>43.74 Tons</td>
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<tr>
<td></td>
<td>52308423 - 2.64-U</td>
<td>20.14 Tons</td>
<td></td>
</tr>
</tbody>
</table>
Project Ticket Page/Individual Ticket Information

Inspector Tabs

Load Information

Fillable forms
DelDOT e-Ticketing Timeline for 2021

- **March**: Complete the application development and Supplier integration.
- **April**: Execute a pilot with targeted suppliers.
- **May**: Roll out e-Ticketing statewide for hot mix. Paper tickets will continue until the spec is updated.
- **June**: Begin development of e-Ticketing for concrete, borrow, stone, etc.
- **October**: Begin to phase out paper tickets using 100% e-Ticketing for hot mix in early 2022.
Unifier Overview

Usage Stats

General (Since April 2017)
- 250 Projects
- 450 Users (Incl. Consult. and Contr.)

Inspector Daily Reports
- Started: April 2017
- 95,000+ Records

Price Approvals
- Started: July 2017
- 1270 Records
<table>
<thead>
<tr>
<th><strong>Unifier</strong></th>
<th><strong>Change Orders</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overview</strong></td>
<td><strong>Started: May 2019</strong></td>
</tr>
<tr>
<td><strong>Usage</strong></td>
<td><strong>830 Records</strong></td>
</tr>
<tr>
<td><strong>Stats</strong></td>
<td><strong>Approx $56mil</strong></td>
</tr>
<tr>
<td><strong>Estimates</strong></td>
<td><strong>Started: May 2019</strong></td>
</tr>
<tr>
<td><strong>Stats</strong></td>
<td><strong>670 Records</strong></td>
</tr>
<tr>
<td><strong>Estimates</strong></td>
<td><strong>Approx $286mil</strong></td>
</tr>
</tbody>
</table>
Overview

Processes Implemented

Unifier

26 Total processes to date
13 Main BPs, 13 Support BPs

Main
Project Request, IDR, Price Approvals, Change Orders, Pencil and Progress Estimates, RFIs, Submittals, etc..

Support
CO Reason Codes, Contacts, Vendors (Project and Master), Pay Items (Project and Master), Locations, Risks/Issues, etc...
**Unifier Overview**

**BPAs Coming Soon**

**Design Phase**
- BMP / SWM Facility ID Request
- Environmental Permit Request (M&O)
- Project Funding Increase Request (Constr. Incl.)
- Phase Closeout
- Various BPs as part of P6 migration, etc...

**Construction Phase**
- Constr. NTP, FCD, Suspend/Resume Time
- Subcontractor Approval
- Force Account Tracking
- Precon Meeting Minutes
- General Correspondence
- Source of Supply
- Source Doc/BlueChecking
- Project Closeout, etc...
Other interest in Unifier

Civil Rights (DBE, ADA)
Audit
Right of Way
Materials
P6 Migration