



**DIMENSION5**  
SOLUTIONS

**Mi-Co** *putting handwriting to work*

# Mi-Co Users Days 2006

April 26, 2006

- **Who is D5**
- **D5 / Mi-Co Customer Case Study**
- **Summary of Benefits and ROI**



# Introduction to Dimension 5 Solutions



**We pride ourselves on a commitment to excellence, innovation, integrity, and customer service.**

## Who We Are

- Information Technology Solutions Provider for the AEC Industry
- Focused on the Collaborative User
- Headquartered in Roseville, California
- Committed to cost-effective, results-oriented IT solutions
- Industry Sector Experience Includes:
  - ✓ Architecture, Engineering, Construction (AEC)
  - ✓ Internet / e-commerce
- Provide  software product suite to assist our customer with automating and centralizing the collection, verification, and entry of paper-based and electronic data.
- Provide Direct Sales and Leverage Channel Partner Sales Team

# Sample of Customers

## Owners



## Contractors



The Walsh Group

Turner  Logistics

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### Large Construction Group

- Have been providing construction services for over half a century
- Complete over \$1.5 billion of work annually
- Over \$5 billion of work under contract at any given time
- Some current projects include:
  - Large metropolitan medical centers
  - Medical Centers
  - Major Hotels
  - Indoor and Outdoor Stadiums
  - Major Airport Projects

## Entering and Managing Punch List Items

### Punch List Description

- When a contractor reports that work has been finished, an inspector or consultant ensures that the work is completed according to specifications.
- Work might not have been completed, or previous work might have been damaged during the final stages of construction.
- The inspector compiles a list of items, called the punch list, which indicates items that need to be completed, fixed, or redone before the Certificate of Final Completion can be issued.
- If Punch List items are not entered in a timely manner, unfinished items may not be identified until it is too late – resulting in losses of tens to hundreds of thousands of dollars

# Entering and Managing Punch List Items

- For large projects, there can be nearly 80,000 punch list items that must be identified and keyed into the central project management system



- At one specific project, prior to the D5 / Mi-Co solution, all punch list items would be handwritten on a yellow tablet / scrap of paper; then given to a Punch List Administrator to enter manually into the central project management system

# Entering and Managing Punch List Items



## **With the D5 / Mi-Co Solutions, the Mi-Forms Data Entry Functionality is Used to:**

- **Enter Multiple Punch List Items for a Single Room Simultaneously in One Form**
- **Leverage Drop-down Lists of “Typical Conditions” for Selection and Consistency of Punch List Descriptions**
- **Take Advantage of Handwriting Recognition to Allow for Quick Entry of Items**
- **Provide Filtered “Typical Conditions” Applicable to the Area Being Inspected**
- **Auto-prefill “Known” Values, such as Creation Date, Authored By, Author Company, etc.**
- **Quickly Assign Sub-contractors to Address Punch List Items**
- **Use Web Services to upload XML data from the field and automatically create multiple punch list item records in the Central Project Management System**

# D5 / Mi-Co Solution



Encompass Mobile

File Edit View Tools Help

Page 1

Downtown Medical Center, Fred Bloggs

### Punch List Input Form

**Project Name**  
Downtown Medical Center

**Authored By**  
Fred Bloggs

**Author Company**  
Acme Construction Inc.

**Level**  
Main Level

**Quad**  
B Quad

**Room**  
01.74.06 TRAINING ROOM

**Inspected Date**  
04/09/2006

**Area 4**  
F

**Area 5**  
13

**Construction Division**  
02510 - Asphalt

**Typical Condition**  
Debris in storm vault

remove debris

**Area 4**  
F

**Area 5**  
10

**Construction Division**  
04210 - Brick

**Typical Condition**  
Brick is streaked and/or stained

clean all brick

**Area 4**  
F to H

**Area 5**  
11

**Construction Division**  
02830 - Chain Link

**Typical Condition**  
wrong sized chain link fence post

**Area 4**  
G-H

**Area 5**  
11

**Construction Division**  
03410 - Structural Precast

**Typical Condition**  
incorrect heel radius on precast tread

**Area 4**  
J

**Area 5**  
11.5

**Construction Division**  
08200 - Wood Doors

**Typical Condition**  
edges of door not finished

apply finish to doors

**Area 4**  
J

**Area 5**  
16.5

**Construction Division**  
11451 - Residential Appliances

**Typical Condition**  
Appliance is scratched/damaged

replace microwave - right side is badly scratched

**Area 4**  
H35.1

**Area 5**  
18.2

**Construction Division**  
02831 - Steel Fences

**Typical Condition**  
fence locking mechanism missing

**Area 4**  
H35.1

**Area 5**  
18.5

**Construction Division**  
08660 - Ticket Windows

**Typical Condition**  
missing ticket window voice amplifier/incorrect unit

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# Summary of Benefits and ROI



## Prior to D5 / Mi-Co Solution

Manually, the Punch List Administrator working full-time can enter:

- 400 Punch List items per day
- 8,000 Punch List items per month
- 80,000 Punch List items in 40 weeks (approximately 10 months)

*....This is IN ADDITION to the time required for the initial inspection and handwriting of the data on the paper*

## With the D5 / Mi-Co Solution

The Punch List Items Can be Generated Directly from the Field, then Uploaded Automatically, without any Manual Intervention:

- 2,400 Punch List items per day
- 48,000 Punch List items per month
- 80,000 Punch List items in under 7 weeks

- **82.5% Increase In Efficiency**
- **Tens of Thousands of Dollars in Data Entry Savings**
- **Tens to Hundreds of Thousands of Dollars in Savings Due to Timely Access to Data**

**THANK YOU**