Project Need
Best Practices
Tools
Benefits
The Problem
Impacts

Crash

ICN Central Network

Sioux City Networks

CB Hospitals

CB CCTV's

Glenwood Hospitals

857 Customers Down!
Invest in NetDesigner

Dec 2015

Develop Standards & Workflows

Mar 2016

Complete Proof Project

Nov 2016

Deploy Statewide

Jan 2017
Simple – Reliable – Easy to Maintain
Show Me it Works – Proof Project
Show Me it Works – Proof Project
Standardize the Workflow Process
STREAMLINED OUTPUTS

- KMZ
- Shapefiles

Diagram showing a database connected to KMZ and Shapefiles.
## Sean Unconnected Spares: Details of Route #1

**Monday, May 01, 2017, 10:02 AM**

**From housing LS246A to housing Fire Safety and Training 2700 Dean Avenue**

<table>
<thead>
<tr>
<th>Item</th>
<th>Length</th>
<th>Unconnected Fibers</th>
<th>Unconnected Ports</th>
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<tr>
<td>LS246A</td>
<td>1586.46</td>
<td>12-48 (36)</td>
<td></td>
</tr>
<tr>
<td>DGN Fiber - 48F</td>
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<td>DGN Fiber - 48F in LS246A</td>
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<td>DGN Fiber - 48F in Fire Safety and Training</td>
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**Fire Safety and Training 2700 Dean Avenue**

- **Fire AIT Cisco 6506 Switch**
  - Input - 30 Ports
  - Output - 30 Ports
  - 1-30 (30)
  - 1-30 (30)

- **Cisco 6506 port g5/1**
  - Input - 2 Ports
  - Output - 2 Ports
  - None
  - 1-2 (2)

- **Cisco 6506 port g5/2**
  - Input - 2 Ports
  - Output - 2 Ports
  - None
  - 1-2 (2)

- **Fire AIT Patch Panel A**
  - Input - 12 Ports
  - Output - 12 Ports
  - 3-10 (8)
  - 5-10 (8)

**Total Length: 1586.46**
FUTURE PLANNING / ENGINEERING
PREVENTATIVE MAINTENANCE
COLLABORATION / SHAREABILITY
ON-GOING DATA COLLECTION
So what?!?!?

Show me the benefits
Easier and Quicker Trouble Shooting
These new Iowa DOT diagrams are easy to understand! The laminated copies in the cabinets and the labeling on the cables is a time saver. This really helps me coordinate planned and unplanned changes with the network engineers.”

– Field Technician, ICN Maintenance Contractor
Improved Network Availability
Lower Network Management Costs

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<th>Port</th>
<th>Name</th>
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Lower Network Management Costs
Accurate Designs and Improved Planning
Prepare You for the Future