Introduction to Fiber Documentation

Fabian Guerrero ver 1.1
Ped #1  SPOL Radar Pad (North East Marshall)

<table>
<thead>
<tr>
<th>Fiber</th>
<th>I.D.</th>
<th>Side A</th>
<th>Loss @ 150 m</th>
<th>Loss @ 1300 m</th>
<th>Side B</th>
<th>Description</th>
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Ped #2  Radar Pad (South East Marshall)

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<th>Side A</th>
<th>Loss @ 150 m</th>
<th>Loss @ 1300 m</th>
<th>Side B</th>
<th>Description</th>
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</thead>
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</table>

Link Measurements

- Link Loss : 3.561 dB
- Link Length : 10.2747 kf
- Average Loss : 0.347 dB/kf
- Avg. Splice Loss : -
- Max. Splice Loss : -
- Total ORL : 0.00 dB
Level 3 to meet up with existing customer conduit. Two new HH’s to be set.
Current NETS Projects

Ongoing Projects

- Ad Hoc CyberInfrastructure Committee
- Boulder PCP
- Boulder Research Administration Network (BRAN)
- Front Range GigaPop (FRGP)
- National LambdaRail
- Network Infrastructure Projects
- Teragrid
- The Quit
- Voice over IP (VoIP)
- Wastnet
- Wireless Ethernet
  - Marshall Field Site (MFS) project page

Short Term Projects

- BLUR Project
- HP OpenView (HPOV), Network Node Manager (NNM)
- Layer 3 Restructuring Project

http://wwwbronfibernet
Segment/Project Name (BRAN, BEAR, BiSON) Link to Logical diagram, description and detail.
- Legend including:
  * Splice/Patch Icon
  * Color coded “Owner” identifier
  - Segment Length in fiber miles (major spans)
  - Segment Details Document – Each segment:
    * Contract Agreement
    * Circuit Number
    * Contract Duration
    * Circuit Endpoints – Collocation Information
  - Endpoint Hardware Icon – General information (Cisco 6509, Juniper, Movaz)
    * Equipment maintenance - Installation Layer
    * What is connected – Installation Layer
  - Accompanying table:
    * Distance Table
    * Project Dates

Project Documentation (Each project)
- Project Name / Description
- Project Dates and Schedule
- Project Contributors and Collaborators
- Project Setting Detail - Where is it connected
  * Patch Document
  * Test Documentation
    * OTDR launch organized by Project/?/Segment/Fiber/Date
    * Power Meter results by Project/?/Segment/Fiber/Date
    * OSA results by Project/?/Segment/Fiber/Date
    * Photographs by Project/?/Segment/Fiber/Date

Equipment Documentation - Manufacturer and p/n, equipment name, and location (bldg/room/rack/equipment #).
- Equipment Maintenance
- Equipment breakdown and population (Blade to Port)
  * Patch cable physical information (MM, SM, connectors, length)
- Connection Identification and xWDM
  * Lambdas
  * Channels

Dedicated CAD diagram including GPS coordinates for access locations, waypoint and/or track information for fiber pathway
- GIS diagram with waypoint information along pathway

- Locating Agreement Information
  * What is Covered
- Maintenance Work Agreement
- Spare Location
  * Equipment
  * Hardware
Management Layer – Logical Map

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  * [Equipment maintenance](#) - Installation Layer
  * [What is connected – Installation Layer](#)
- Accompanying table:
  * Distance Table
  * Project Dates - when was the project completed
## BRAN Distance Table:

<table>
<thead>
<tr>
<th>East Branch</th>
<th>NCAR FL</th>
<th>George Reynolds</th>
<th>NOAA</th>
<th>NIST</th>
<th>CU-ENGR</th>
<th>CU-TCOM</th>
<th>City Atrium</th>
<th>ICG</th>
<th>CU-ITS</th>
<th>Public Safety</th>
<th>Iris Center</th>
<th>33rd &amp; Pearl</th>
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## Campus Area Network

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<th>Termination Hardware</th>
<th>Fiber Hardware</th>
<th># (C)opper # (F)iber</th>
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## Wide Area Network

<table>
<thead>
<tr>
<th>Site / Project</th>
<th>Termination Hardware</th>
<th>Fiber Hardware</th>
<th># (C)opper # (F)iber</th>
<th>Cable Manufacturer</th>
<th>Installed To:</th>
<th>Year Cabled</th>
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<tbody>
<tr>
<td>CG-FL / Multi-use Path</td>
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<td>AMP</td>
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<td>(F) OCC 10G 50um</td>
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Management Layer – Logical Map

- Segment/Project Name (BRAN, BEAR, BiSON) Link to Logical description and detail
- Legend including:
  * Splice/Patch Icon
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- Segment Length in fiber miles (major spans)
- Segment Details Document – Each segment:
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Equipment maintenance

Installation Layer

- What is connected – Installation Layer

Accompanying table:
- Distance Table
- Project Dates - when was the project completed
Installation (MAC) Layer – Data sheets, Diagrams and Documentation

Equipment Documentation- Manufacturer and p/n, equipment name, and location (bldg/room/rack/equipment #).
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     * Channels

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     * Power Meter results by Project?/Segment/Fiber/Date
     * OSA results by Project?/Segment/Fiber/Date
     * Photographs by Project?/Segment/Fiber/Date

Archive Documentation
Disaster Recovery Layer (cut/break) – Physical Diagram

Dedicated CAD diagram including GPS coordinates for access locations, waypoint and/or track information for fiber pathway
- GIS diagram with waypoint information along pathway

- Locating Agreement Information
  * What is Covered
- Maintenance Work Agreement
- Spare Location
  * Equipment
  * Hardware
Project Name

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Questions??
Thank You!!