



# LONI Network Engineering Update

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# Service Deployment

- Internet Service
  - LSU started on 9/9/06
  - UNO started on 9/9/06
  - PBRC started on 9/9/06
- Internet2 Service
  - LSU started on 10/25/06
  - PBRC started on 10/25/06
- NLR Service
  - LSU started on 10/25/06
  - PBRC started on 10/25/06
- LEARNet connection started 10/25/06



# Service Targets

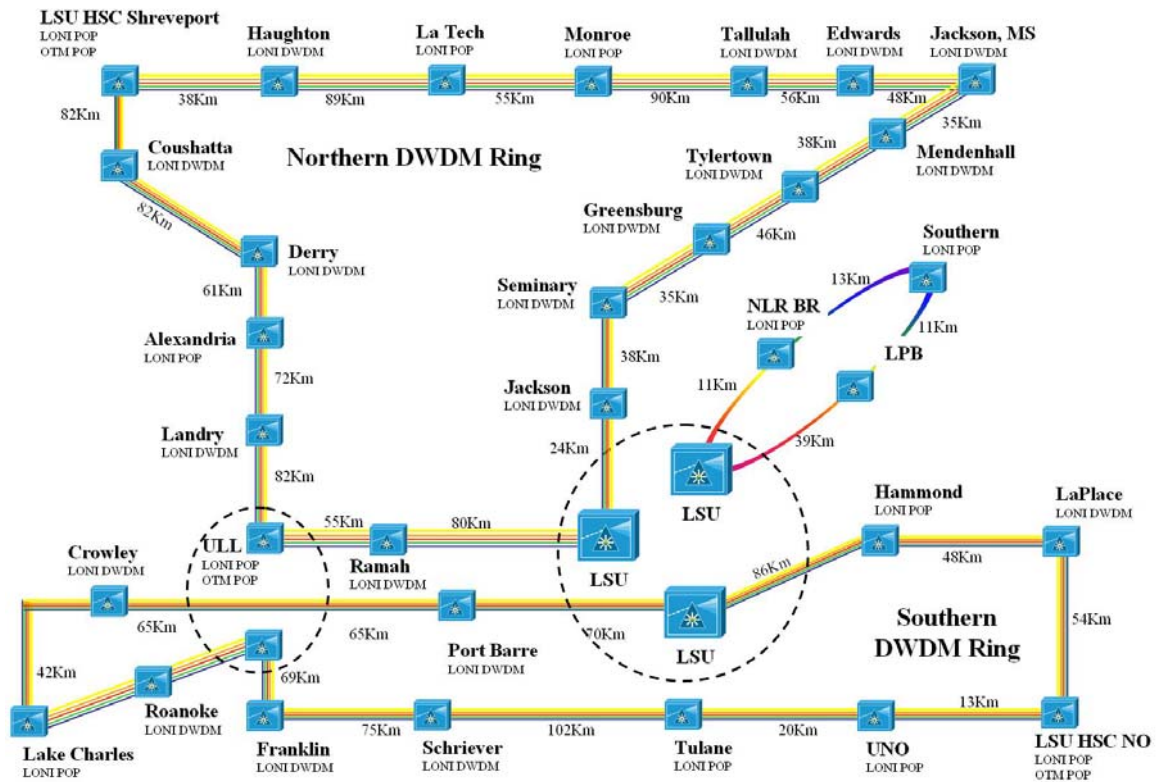
- Southern University on 11/1/06
- ULL ≈ ASAP
- HSC New Orleans ≈ before Thanksgiving
- UNO ≈ before Thanksgiving
- Tulane ≈ before Christmas
- HSC Shreveport ≈ before 2007 Spring Semester
- La Tech ≈ before 2007 Spring Semester



# Network Metrics

- **Internet Service**
  - Max. inbound = 246.6 Mb/s
  - Max. outbound = 149.9 Mb/s
- **Internet2 Service**
  - Max. inbound = 109.2 Mb/s
  - Max. outbound = 38.7 Mb/s
- **NLR Service**
  - Max. inbound = 74.7 Mb/s
  - Max. outbound = 109.5 Mb/s
- **LEARNet Service**
  - Max. inbound = 13.3 Mb/s
  - Max. outbound = 21.4Mb/s

as of today



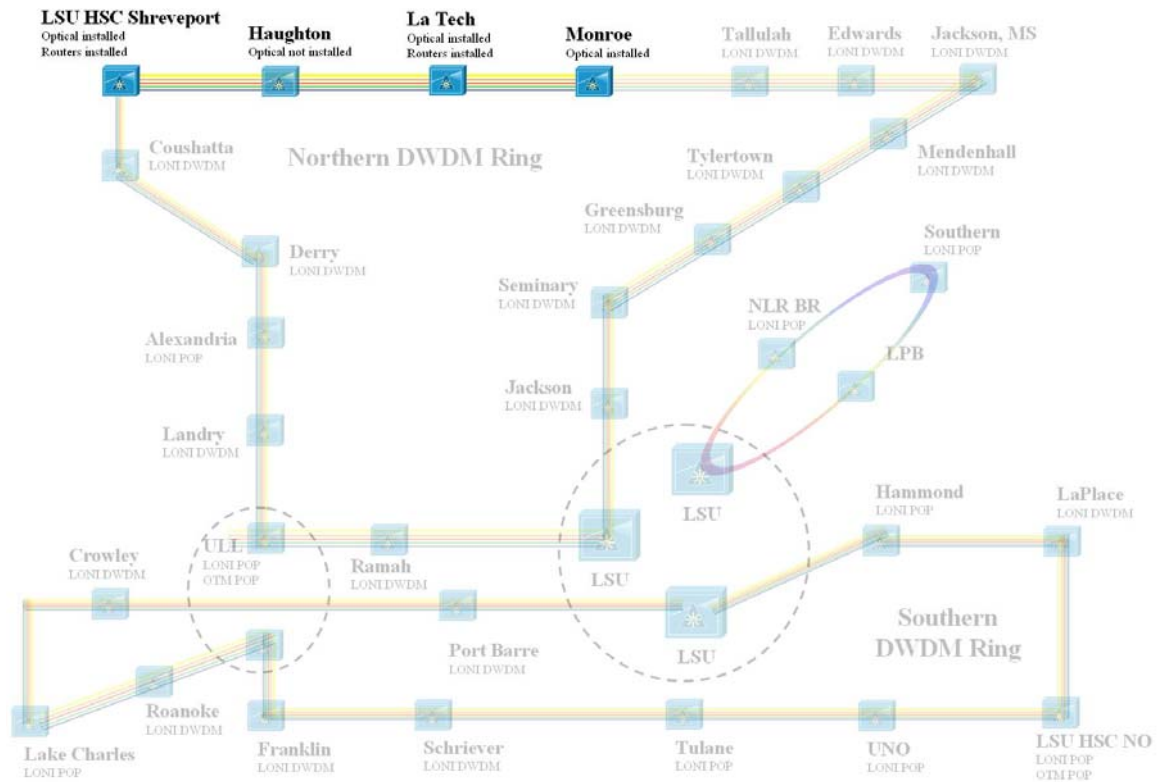
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Overall:

- BellSouth has delivered 8 of the 10 outstanding local loops
- SU working on installing UPS for P5
- Moved Internet2 to LONI
- Moved LSU and PBCR to Internet2
- Created connection to LEARNet
- Jackson,MS local loop dark fiber rebid

Issues:

- Sun America IRU
- ITC^DeltaCom collocation agreement
- McLeodUSA collocation contract
- AUP with BellSouth
- BellSouth IRU on Hwy.90 fiber to Qwest
- Missing local loop dark fiber routes
- Missing conduit at Lafayette Qwest location
- Signed CEA with DOTD
- Jackson, MS local loop dark fiber
- ULL Abdalla local loop dark fiber



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Shreveport to Monroe:

Completed

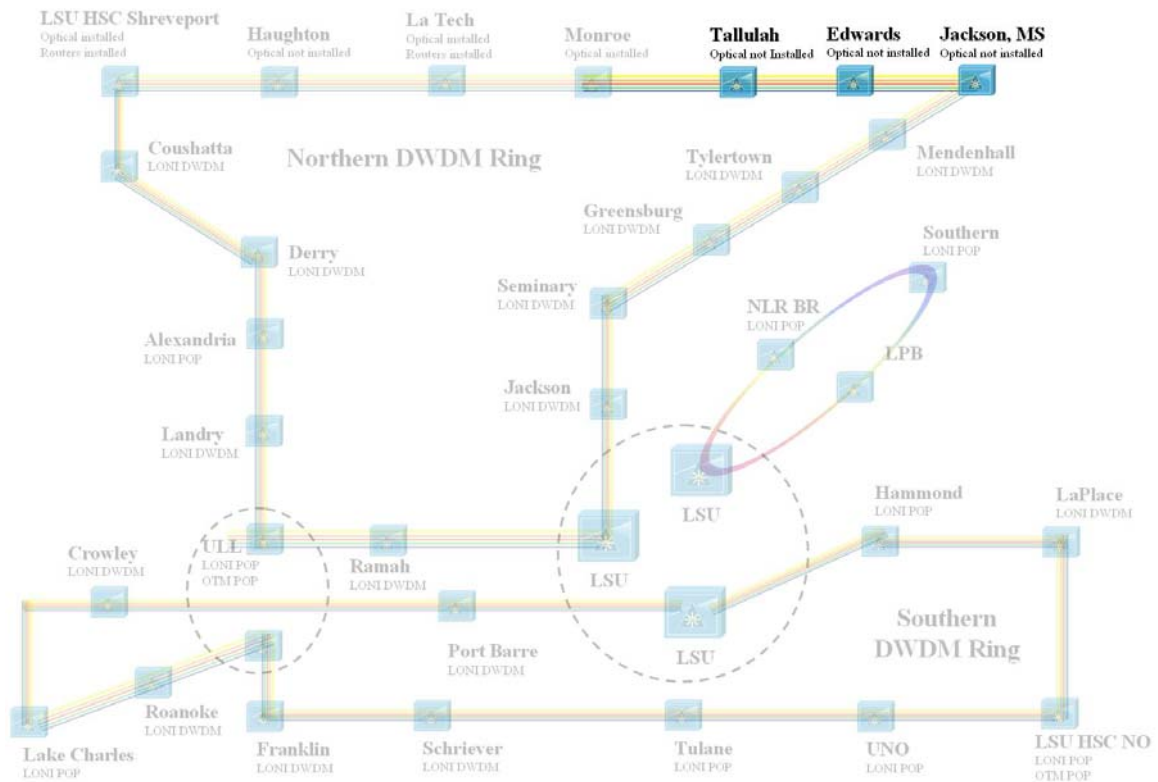
- HSC Shreveport Optical and Routers Installation
- La Tech Optical and Routers Installation
- Monroe Optical Installation
- La Tech P5 Installation
- Cisco Equipment Ordered (DCUs only)
- Move La Tech P5 to Internet2
- BellSouth Local Loop to La Tech
- Cisco Equipment Order
- BellSouth Local Loop to ULM
- BellSouth Local Loop from HSC to McLeod

Pending

- Signed CEA
- Fiber Characterization
- BellSouth Local Loop from HSC to Sun America
- Haughton Optical Installation
- McLeod to repair splice in Monroe, no date
- McLeod to repair splice near Minden, no date

Missing

- Return local loop from La Tech to McLeod



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Monroe to Jackson, MS:

Completed

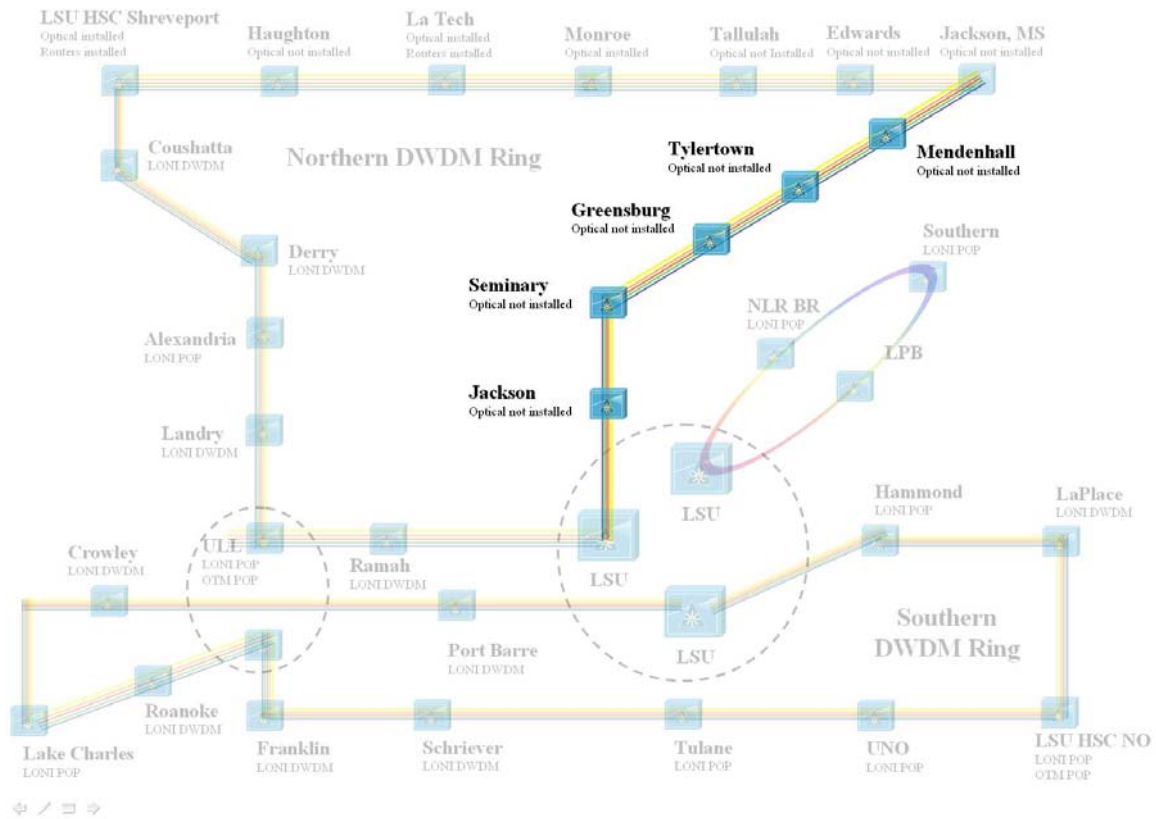
- Award of route to ITC^DeltaCom and fiber assignment
- Site Survey of the Route
- Cisco Equipment Order
- Fiber Assignments
- Fiber Characterization
- BellSouth Local Loop to ULM
- Tallulah Optical Installation
- Edwards Optical Installation

Pending

- Fiber Jumpers on order to complete continuity
- Jackson, MS Optical Installation

Missing

- Dark fiber local loop in Jackson, MS



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Jackson, MS to Baton Rouge:

Completed

- Award of Route to Level3
- Cisco Equipment Ordered
- Level3 Kick-off
- Fiber Assignments
- Level3 Collocation orders

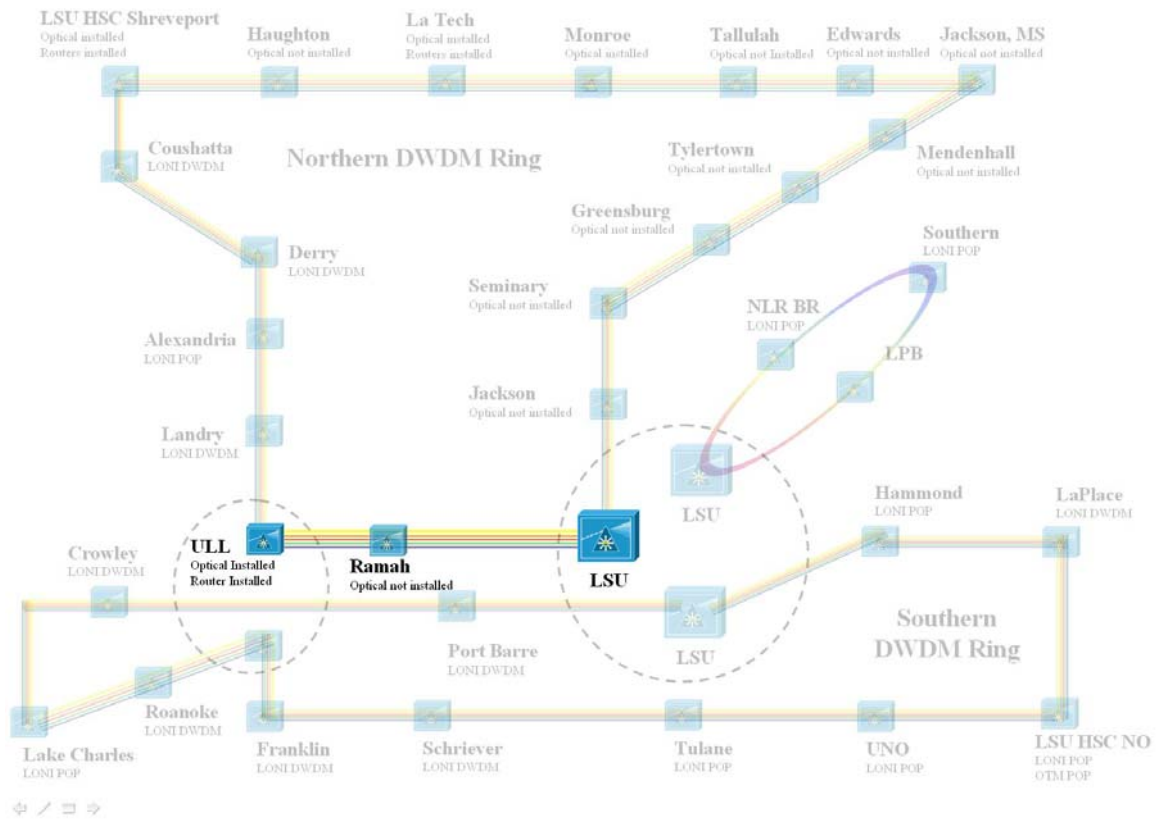
Pending

- Site Survey of the Route
- Fiber Characterization
- Mendenhall, MS Optical Installation
- Tylertown, MS Optical Installation
- Greensburg, MS Optical Installation
- Seminary, MS Optical Installation
- Jackson, LA Optical Installation
- L Band DCUs from Cisco/BellSouth

Missing

- Dark fiber local loop in Jackson, MS





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Baton Rouge to Lafayette:

Completed

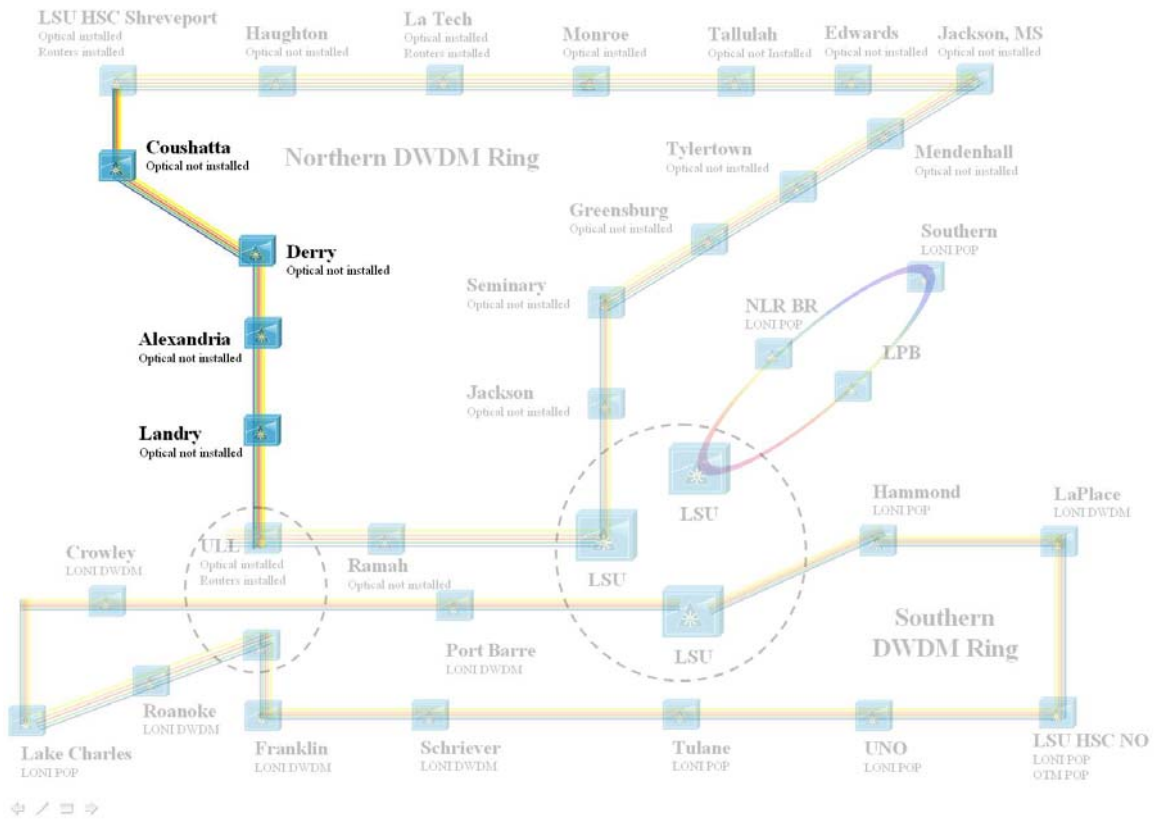
- LSU Optical and Routers Installation
- ULL Optical and Routers Installation at Abdalla
- ULL Optical Installation at Stephens
- Cisco Equipment Ordered
- ULL P5 delivered and network completed
- Ramah Optical Installation
- Fiber Characterization complete from Ramah to Baton Rouge
- Route Construction for DOTD/Qwest
- ULL P5 Installation
- BellSouth and Qwest interconnect in Lafayette

Pending

- Signed CEA
- Dark fiber local loop to ULL Abdalla
- Qwest fiber and conduit at 1710 Willow in Lafayette
- BellSouth local loop dark fiber from 1710 Willow to ULL

Missing

- Dark fiber local loop to ULL Abdalla



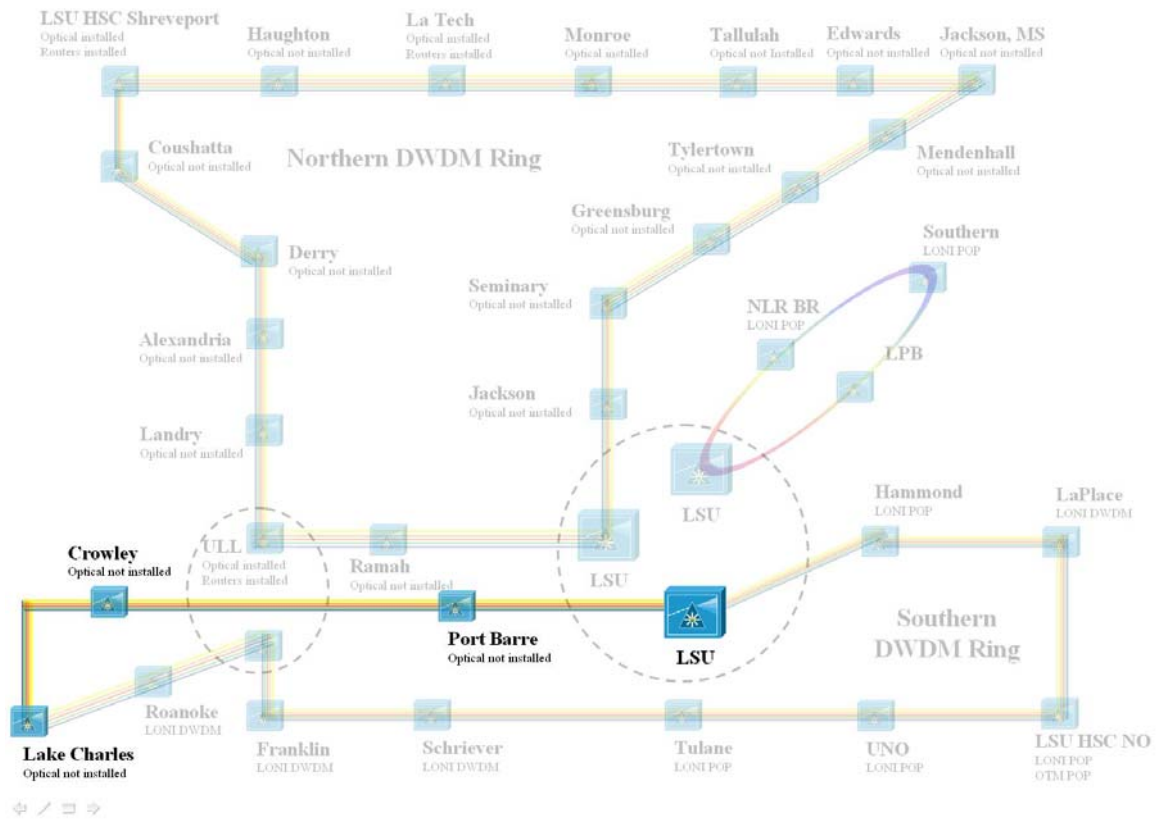
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Lafayette to Shreveport:  
Completed

- Award route to Sun America
- Cisco Equipment Ordered (DCUs only)
- Site Survey of the Route
- Fiber Assignments

Pending

- Signed CEA
- IRU with Sun America
- Fiber Characterization
- St. Landry Optical Installation
- Alexandria Optical Installation
- Derry Optical Installation
- Coushatta Optical Installation
- BellSouth Local Loop from HSC to Sun America
- Qwest fiber and conduit at 1710 Willow in Lafayette



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Lake Charles to Baton Rouge:

Completed

Utilize AT&T Fiber

LSU Optical and Routers Installation

Pending

Route Construction by AT&T

Site Survey of the Route

Fiber Assignments

Fiber Characterization

Lake Charles Optical and Routers Installation

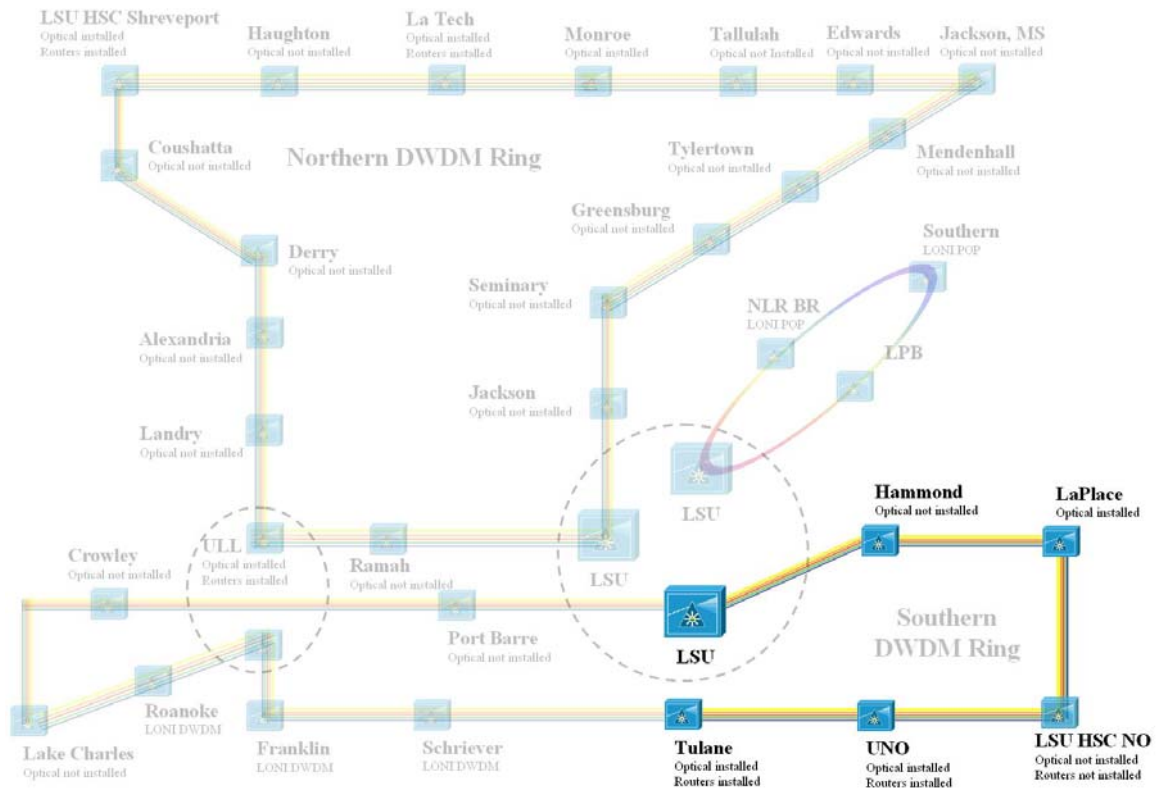
Crowley Optical Installation

Port Barre Optical Installation

Cisco Equipment Order for LPB

Missing

Dark fiber local loop from McNeese to AT&T PoP and LSU to AT&T PoP respectively



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Baton Rouge to New Orleans:

Completed

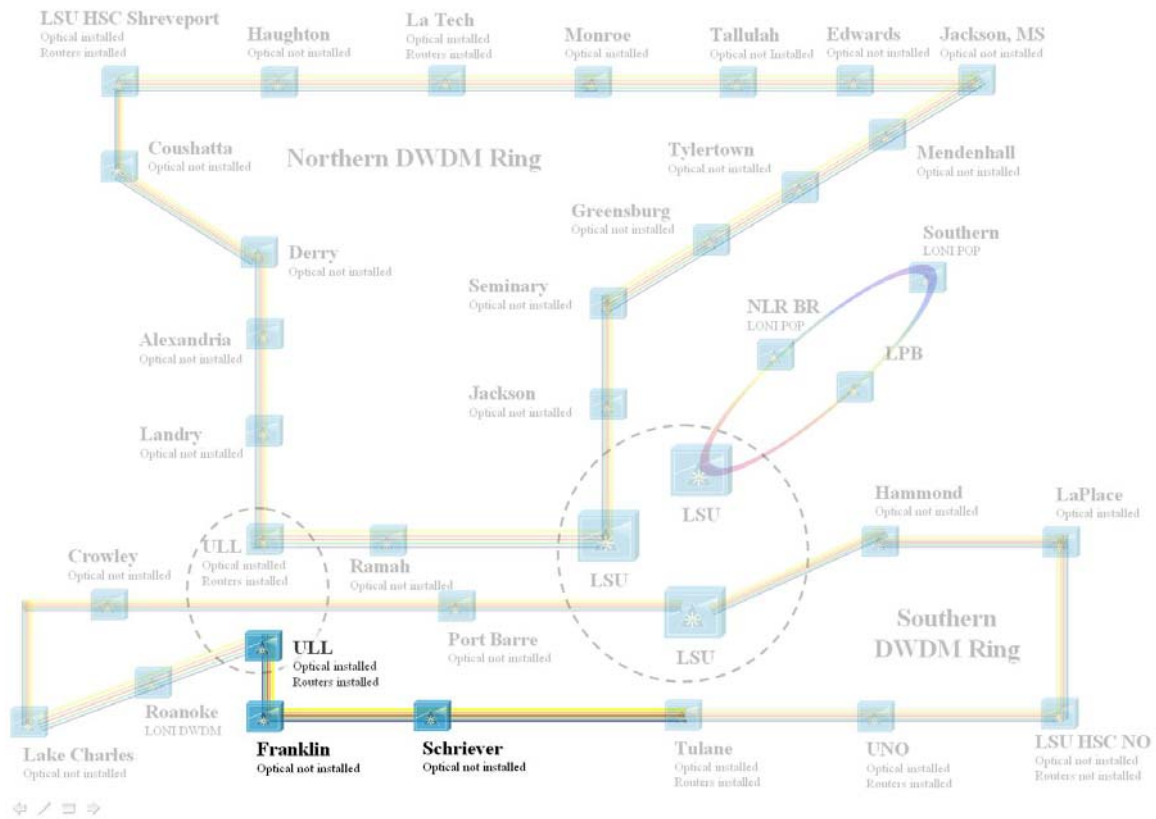
- LSU Optical and Routers Installation
- LaPlace Optical Installation
- Baton Rouge to LaPlace Fiber is Lit
- UNO Optical and Routers Installation
- Tulane Optical and Routers Installation
- LSU HSC Optical and Routers Installation
- Tulane P5 Installation
- UNO P5 Installation
- Cisco Equipment Order
- Route Construction for DOTD/Qwest
- BellSouth and Qwest interconnect in New Orleans
- BellSouth local loop from HSC to UNO
- BellSouth local loop from Tulane to Qwest PoP
- (1) 10GE circuit from HSC to UNO

Pending

- Signed CEA
- BellSouth local loop from UNO to Tulane
- Fiber break at I10/610 split

Missing

- BellSouth return local loop from SLU to DOTD



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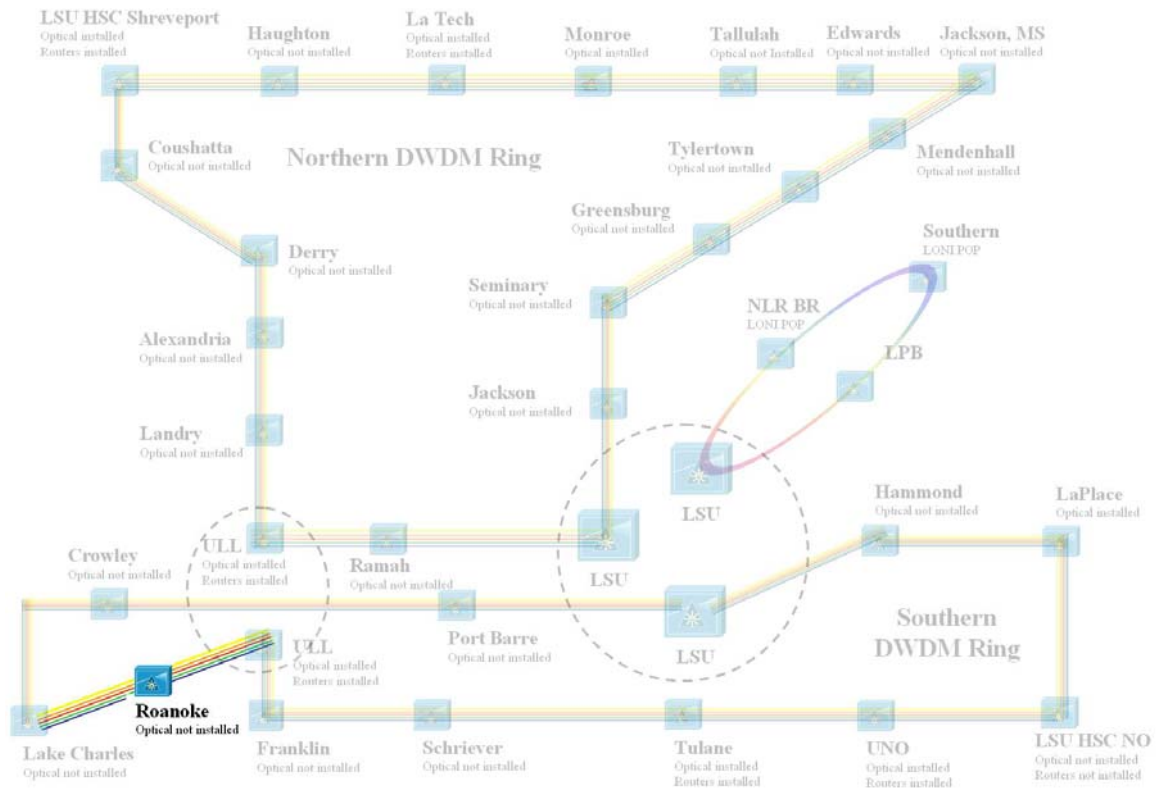
New Orleans to Lafayette:

Completed

- Award of Route to BellSouth
- Cisco Equipment Order
- Site Survey of the Route
- Fiber Assignments
- Fiber Characterization
- Schriever Optical Installation
- Franklin Optical Installation
- BellSouth local loop from Qwest to ULL

Pending

- IRU with BellSouth
- Fiber Jumpers on order to complete continuity



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Lafayette to Lake Charles:

Completed

Route Construction for DOTD/Qwest

Fiber Assignments

BellSouth local loop from DOTD to McNeese

Pending

Signed CEA

Site Survey of the Route

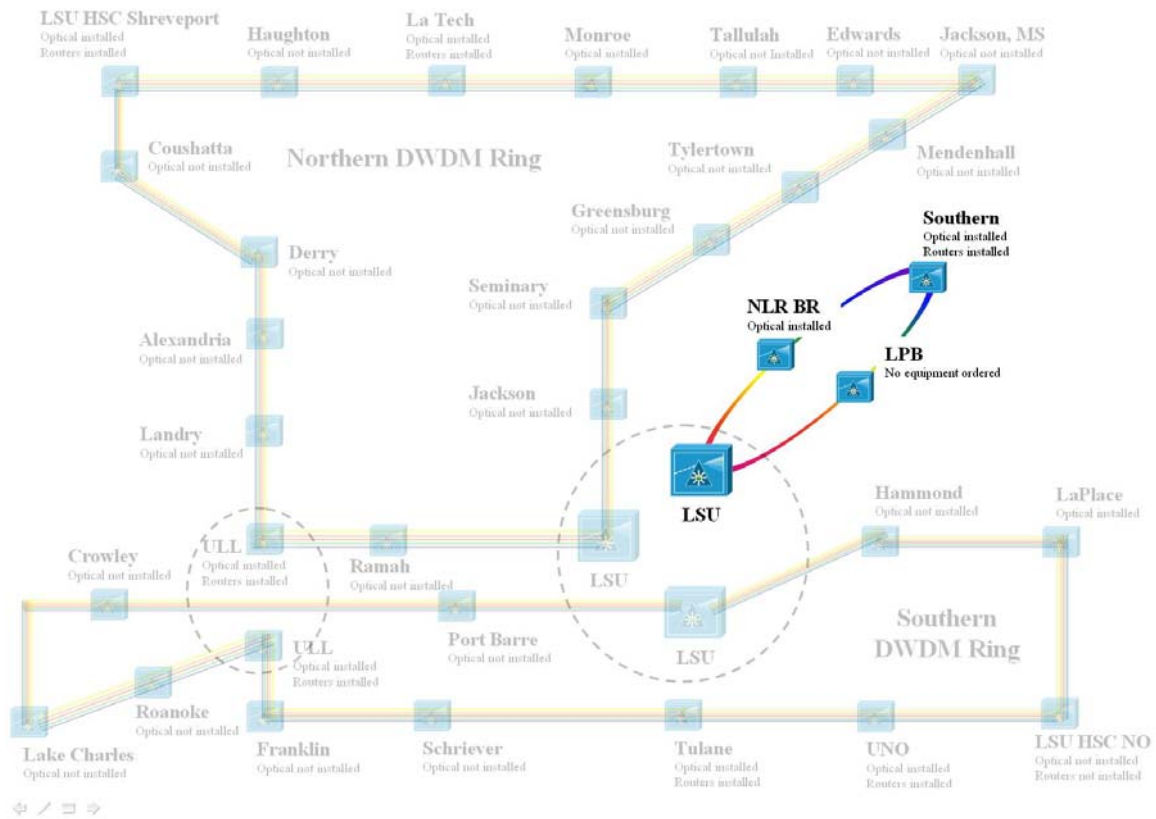
Fiber Characterization

Cisco Equipment Order for LPB

Roanoke Optical Installation

Qwest fiber and conduit at 1710 Willow in Lafayette

BellSouth local loop dark fiber from 1710 Willow to ULL



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Baton Rouge Ring:

Completed

- LSU Optical and Routers Installation
- NLR Optical Installation
- SU Optical and Routers Installation
- Cisco Equipment Order
- (4) 10GE Circuits from LSU to SU
- (1) 10GE Circuit to NLR
- (1) 1GE Circuit to NLR
- (1) 155Mbps Circuit to Internet2
- (1) 120Mbps Circuit to LEARNet

Pending

- Fiber Characterization
- BellSouth loop local from SU to Level3 to complete the metro ring has no completion date
- SU UPS Installation
- SU P5 Installation
- Cisco Equipment Order for LPB