



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM		Easygrants ID: 4278	
Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: DCN, LLC	
Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

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A. General Application Information

Applicant Information	
Name and Federal ID for Applicant	
DUNS Number	615928405
CCR # (CAGE)	3N9Q6
Legal Business Name	DCN, LLC
Point of Contact (POC)	NANCY BJORND AHL 7013641300 Ext. nbjorn@dakotacarrier.com
Alternate POC	EVAN HASS 7013641300 Ext. ehass@dakotacarrier.com
Electronic Business POC	NANCY BJORND AHL 7013641313 Ext. nbjorn@dakotacarrier.com
Alternate Electronic Business POC	JIM LASKE 7013641308 Ext. jlaske@dakotacarrier.com

Name and Contact Information of Person to be Contacted on Matters Involving this Application:	
Prefix	Mr.
First Name	Evan
Middle Name	A.
Last Name	Hass
Suffix	
Telephone Number	17013641314



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Fax Number	17012801166
Email	ehass@dakotacarrier.com
Title	General Manager

Additional Contact Information of Person to be Contacted on Matters Involving this Application:

Project Role	Name	Phone	Email
Secondary Point of Contact	Mr. Seth , Arndorfer	7013233030	seth@dakotacarrier.com

Environmental Point of Contact

Prefix: Mr.
Name: Harris, Lanny
Suffix:
Telephone Number: 17013558419
Title: Project Engineer

Organization Classification

Type of Organization	For-profit Entity
Is the organization a small business?	Yes
Does the organization meet the definition of a socially and economically disadvantaged small business concern?	No

Authorized Organizational Representative

AOR Name	HASS, EVAN
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Result	Applicant Authorized
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Project Title and Project Description

Project Title: DCN's CCI Broadband Project

Project Description: DCN's CCI Broadband project will provide high-speed fiber connectivity to 582 of North Dakota's critical community anchors, public safety entities, schools, colleges, and government agencies. Connecting all of these entities is possible through DCN's public and private partnerships, public and private supporters and collaboration with multiple Round 1 BTOP and BIP awardees.

CCI Priority Checklist

The following items were selected from the CCI Priority Checklist:

1. This project will deploy Middle Mile broadband infrastructure to community anchor institutions.
2. The project will deploy Middle Mile broadband infrastructure and has incorporated a public-private partnership among government, non-profit and for-profits entities, and other key community stakeholders.
3. This project will deploy Middle Mile broadband infrastructure in economically distressed areas.
4. This project will deploy Middle Mile broadband infrastructure to community colleges.
5. This project will deploy Middle Mile broadband infrastructure to public safety entities.
6. This project will deploy Middle Mile broadband infrastructure and either includes a Last Mile infrastructure component in unserved or underserved areas or has received commitments from one or more Last Mile broadband service providers to utilize the Middle Mile components. Any Last Mile components in rural areas do not exceed 20% of the total eligible costs of the project.
7. This project will deploy Middle Mile broadband infrastructure and the applicant has proposed to contribute 30 percent or more in non-federal cost match.

Comprehensive Community Infrastructure Components

The following items were selected from the Comprehensive Community Infrastructure Components:



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Middle Mile

BIP Applicants

Have you also applied to BIP for funding in the sample proposed funded service area?

➤ No

If Yes, please provide the project title and Easygrants ID number:

Title of Joint BIP Application:

Easygrants ID:

Other Applications

Is this application being submitted in coordination with any other application being submitted during this round of funding?

➤ Yes

Easygrants ID	Project Title
7576	Griggs County/Moore & Liberty Broadband Development
4547	MLGC Broadband Development
6190	CEI Broadband Infrastructure Project
4733	RRT FTTP Broadband Upgrade Rural MN, ND and SD Exchanges

If YES, please explain any synergies and/or dependencies between this project and any other applications.

DCN's is submitting only one BTOP application, but five project partners are submitting Round 2 BIP applications. Moore & Liberty/Griggs County Telephone is submitting two RUS BIP grant applications one as a co-applicant and the other through their subsidiary, MLGC (MLGC Broadband Project Grant ID 4547 and Griggs County/Moore & Liberty Broadband Development Grant ID 7576); Consolidated Enterprises Inc. (Consolidated Telcom) is submitting an RUS BIP grant application (CEI Broadband Infrastructure Project, Grant ID 6190); and Red River Rural



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Telephone Association is submitting an RUS BIP grant (RRT FTTP Broadband Upgrade Rural MN, ND and SD Exchanges, Grant ID 4733).

The partners' applications are for last mile applications and are not dependent on DCN's BTOP application nor does DCN's application depend on their BIP applications. DCN's application, if awarded, will provide more bandwidth in the DCN backbone network that these partners will use for their data and Internet traffic uplinks throughout the entire state of North Dakota. DCN will use the project partners' last mile infrastructure to obtain access to subscribers that need point-to-point/multipoint connections across more than the one partner's service area. DCN will not duplicate fiber facilities to already served subscriber, thus DCN uses partner companies' infrastructure for last mile connectivity. If DCN's application does not get awarded BTOP funding, it will not inhibit the partners' BIP applications since they stand on their own service offering merit. If the partners' applications do not get awarded, it will not affect DCN's application and their service goals. These applications do not overlap with the Critical Community sites DCN has proposed to provide upgraded or new service to. The impact of these grants, if they do not get funded, are that entities will either not have access to broadband or broadband will be limited at the last mile and possibly within the backbone network.

The synergies between these applications is twofold, first DCN's project partners will benefit from DCN's application if awarded by having access to more and higher quality bandwidth to the outside world for all of their subscribers, including any existing critical community entities (specifically through a 10 Gig Ethernet dedicated healthcare network). Second, DCN will benefit by having more access to critical community entities so that they can provide regional and national connectivity resulting in better medical and public safety services.

If DCN and its project partners receive BTOP and BIP funding, DCN will be able to provide a higher level of quality bandwidth to the partners to utilize. However, if DCN doesn't receive BTOP funding, there may need to be more oversubscription for a longer period of time.

Individual Background Screening

Is the Applicant exempt from the Department of Commerce requirements regarding individual background screening in connection with any award resulting from this Application?

- No, Applicant is subject to these requirements



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If the answer to the above question is "No," please identify each key individual associated with the Applicant who would be required to complete Form CD-346, "Applicant for Funding Assistance," in connection with any award resulting from this Application:

Name	Title	Employer
Evan Haas	General Manager	DCN

B. Executive Summary, Project Purpose and Benefits

Essay Question

Executive Summary of the proposed project:

North Dakota's underserved critical community anchors and public safety entities lack access to high speed broadband connections due to the state's primarily rural population. As a 60% rural state, it is imperative for ND to have a statewide broadband system to enhance service offerings of critical community anchors, public safety entities, government agencies and all levels of academia. DCN's Critical Community Infrastructure (CCI) Broadband Project will connect all of these groups with an enhanced broadband network, to create the foundation to spur economic development, empower impoverished regions of the state, create living wage jobs, and enhance quality of life. DCN will do this by upgrading broadband infrastructure with an Ethernet Core to overcome limitations of copper facilities and by collaborating with multiple public, private and government entities, and Round 1 BTOP and BIP awardees.

DCN's BTOP application is 100% middle mile, focusing on backbone transport and connecting critical community anchors and public safety entities in the proposed funded service areas (PFSA) spread across ND in 80 areas consisting of 48 communities, five unincorporated areas and 27 rural locations. Of these 80 areas that make up DCN's PFSAs, only four have a population over 20,000 according to the 2000 Census data. The remaining 76 areas are rural and vastly underserved.



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DCN has formed 13 project partnerships to provide [REDACTED] critical community anchor institutions with access to broadband service. Of the [REDACTED] will be upgraded or expanded to as part of this project. All of DCN's local carrier project partners are committed to contributing 30% towards the matching requirements. These partners are eager to leverage non-federal resources with BTOP funding to expand ND's last-mile broadband infrastructure to reach the most rural areas of the state. Numerous local exchange carriers have endorsed their support for DCN's project based upon the subscriber benefits that will exist for their clientele.

DCN is also working with five project partners that are submitting Round 2 RUS BIP applications. Even though DCN's project is not dependent on the award of these BIP funds, all companies have pledged to work together to coordinate the construction and delivery of broadband service to end users. DCN is also partnering with four Round 1 BIP and BTOP awardees. All three BIP awardees are ND companies with one serving a Native American reservation. The third entity is South Dakota Network, LLC which received more than \$20 million in BTOP funding in Round 1. If awarded funding, DCN and SDN would be able to connect more than 1,000 critical community anchors and public service entities in ND and SD and across the upper Midwest.

Government collaboration is another vital component to the success of DCN's BTOP project. Since 2000, DCN has worked with ND Information Technology Department (ND ITD), which manages the communications connectivity to state and county government agencies, K-12 schools, libraries, and community colleges and utilizes DCN for physical access. ND ITD plans to increase these entities to 10-100 Mbps broadband services. DCN has also received support from the ND Department of Transportation, ND Dept. of Emergency Services and the ND Parks and Recreation District to connect their sites with increased bandwidth to expand public safety measures and rapidly increase response times.

Currently DCN is working with ND ITD and the Health Information Technology (HIT) Advisory Committee to create a statewide healthcare network that may include telemedicine, teleradiology, teledermatology, telepharmacy, practice management systems, disease registries, clinical messaging, electronic health records and health information exchanges to improve the access to healthcare and records for all healthcare entities, especially rural, small-town facilities. All of these services require access to broadband and connectivity to each entity across the state or a central database. To create a solution, DCN will build a virtual private Healthcare Network by dedicating a 10 Gig Ethernet backbone exclusive to ND's healthcare industry. Today, more



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than 10 healthcare agencies and healthcare facilities have endorsed written support for DCN's project.

Collectively, DCN and its project partners already connect with fiber [redacted] critical community facilities including [redacted] schools (K-12), [redacted] libraries, [redacted] Medical or Healthcare providers, [redacted] public safety entities, [redacted] community colleges, [redacted] other institutions of higher education and [redacted] other government facilities. Additionally, [redacted] critical community facilities are connected through DCN's project supporters including [redacted] schools (K-12), [redacted] libraries, [redacted] medical or healthcare providers, [redacted] public safety entities, [redacted] other institutions of higher education, and [redacted] other government facilities.

If awarded BTOP funding, DCN will be able to economically upgrade [redacted] critical community facilities and pass an additional [redacted] critical community facilities for a total [redacted] critical community facilities passed.

Additionally, DCN through its project partners and supporters currently serves [redacted] of the [redacted] public safety answering points (PSAP) in ND. Of these served PSAPs, [redacted] are served through supporters, [redacted] are connected with fiber, and [redacted] will be upgraded to fiber in this project. DCN will be passing [redacted] new PSAP with facilities in this application. The remaining [redacted] PSAP's will be targets for DCN to build to in the future.

The ND University System includes [redacted] state designated community colleges and has endorsed its support for DCN's project. [redacted] community colleges are served by project supporters with fiber today and [redacted] are fed with fiber by other service providers. Because of the backbone services offered to the state of ND, the [redacted] fed by other service providers are indirectly served by DCN. Additionally, ND has [redacted] Native American colleges with [redacted] currently fed with fiber today and a [redacted] to be fed with fiber by the end of 2010 by project partners. The [redacted] Native American college is fed by another service provider.

Even though the proposed project will pass approximately [redacted] households and approximately 673 businesses, DCN's business model is a transport provider, which means the company will not be serving any of the households or businesses passed.

Since its inception in 1996, DCN has upheld ethical business and customer service practices and will continue to do so. DCN does not and will not unlawfully discriminate in its interconnection and service obligations, practices or policies. Its broadband policies and practices can be found



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on its website, which is updated regularly for customers. DCN has no customer or other complaints regarding service or other matters pending before federal or state regulators.

DCN is well qualified to install and maintain the proposed high capacity Ethernet network. The management and engineering team have worked extensively with local exchange carriers and communities across the state and have a proven track record of satisfied customers and end-users. The overall team is ready to begin work immediately on DCN's proposed CCI Broadband Project which will cost a grand total of \$15,401,653 (\$4,620,496 in 30% match, \$10,781,157 in grant). This is not the largest project the team has worked on; however, it will be one of the most vital to the state of ND.

Based upon the reporting requirements of the Executive Office of the President's Council of Economic Advisers' Estimates of Job Creation from the American Recovery and Reinvestment Act of 2009 guidelines, DCN will create 167 job-years. Of the 167 job years created, 107 job-years represent direct and indirect effects and 60 of the job-years are induced effects. These jobs were calculated using the CEA's Simple Rule for Estimating Job-Years Created by Government Spending formula. These jobs will require a set skill base and provide above living wage salaries to residents in rural and urban ND. With the potential to create 167 jobs in ND, DCN's proposed BTOP project will have a positive impact on the economic development throughout the entire state. Additional jobs created by the local exchange carriers, health industry, public safety entities, and government and academia entities in ND cannot be calculated. However many of these entities will need to hire technical staff and support staff to handle the advanced broadband service offerings which translates into living wage jobs created throughout ND and importantly, rural ND. Even though as a state, ND has a low unemployment rate, there are numerous communities and counties that need advanced broadband connections to promote economic development.

If awarded, this project will fill a vital void in the connectivity of healthcare and public safety entities, schools, and government agencies.

Project purpose:

ND's underserved critical community anchors and public safety entities lack access to high speed broadband connections due to the state's primarily rural population. ND needs a statewide broadband system to enhance service offerings of critical community anchors, public safety entities, government agencies and all levels of academia. DCN's project will connect all of these



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groups, which will create the foundation to spur economic development, empower impoverished regions of the state, create living wage jobs, and enhance quality of life.

Healthcare: In order to position ND's healthcare industry to migrate to support electronic medical records, DCN will create a virtual private Healthcare Network for [REDACTED] ([REDACTED] existing fiber, [REDACTED] new, and [REDACTED] upgraded to fiber) healthcare entities through a dedicated 10 gigabit Ethernet backbone. Healthcare entities will then have the necessary secure bandwidth for their services and connectivity to their centralized servers and databases. Some healthcare sites are already served by DCN via fiber based connection, and they too can be part of the DCN Healthcare Network. The DCN network is open for interconnection and will continue to allow any entity access to the proposed Healthcare Network.

Public Safety: ND wants a new interoperable wireless communications system that is IP based to support higher levels of data for dispatching and records/information exchange, which requires a much higher level of bandwidth connectivity. Significant benefits will be seen by upgrading the state radio tower sites to fiber. Radio towers are used for two-way wireless communications and low bandwidth data services; computer aided dispatch, and records/information to and from mobile units. Many of these sites are fed by copper T1 (1.544 Mbps), which will not provide an adequate level of bandwidth for ND's new first responder communications system. DCN will also upgrade numerous public safety locations including PSAP, National Guard, and first responder facilities. DCN, its project partners and its supporters, currently serve [REDACTED] of the [REDACTED] public safety answering points (PSAP) in ND today. Supporters serve [REDACTED] PSAPs, [REDACTED] are connected with fiber today, and [REDACTED] will be upgraded to fiber in this project. DCN will be passing [REDACTED] new PSAP with facilities in this application. DCN will build to the remaining [REDACTED] PSAPs in the future. DCN's project will ensure that the [REDACTED] ([REDACTED] existing fiber, [REDACTED] new, and [REDACTED] upgraded to fiber) public safety entities will be served by a fiber optic connection capable of at least 100 Mbps.

Education: The ND Information Technology Department (ND ITD) currently manages communications connectivity to K-12 schools, libraries, community colleges and other institutions of higher learning and utilizes DCN for physical access. ND ITD plans to increase schools to 10-100 Mbps broadband services. To accommodate bandwidth demand and alleviate teacher shortages in rural school districts, DCN will upgrade the existing copper facilities and ensure access for Interactive Video Teaching/ Distance learning.



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Of ND's five community colleges, three are served by project supporters with fiber and two are fed with fiber by other service providers. Because of the backbone services, the two fed by other service providers are indirectly served by DCN. Additionally, ND has three Native American colleges with one currently fed with fiber today and a second to be fed with fiber by the end of 2010 by project partners. The third Native American college is fed by another service provider.

DCN's project will ensure that the [REDACTED] ([REDACTED] existing fiber, [REDACTED] new, [REDACTED] upgraded to fiber) educational anchor institutions will also be served by a fiber optic connection capable of at least 100 Mbps.

Government: ND ITD currently manages the communications connectivity to state and county government agencies and utilizes DCN for broadband access. ND ITD plans to increase these entities to 10 Mbps- 1 Gbps broadband services. DCN's proposed project will ensure that the [REDACTED] ([REDACTED] existing fiber, [REDACTED] new, [REDACTED] upgraded to fiber) governmental anchor institutions will also be served by a fiber optic connection capable of at least 100 Mbps.

Meeting Statutory Purpose: As a primarily rural state, ND residents, businesses, critical anchor and public safety entities, government agencies and educational institutions face extreme challenges without access to reliable, affordable, and fast broadband. DCN's project will provide the connectivity to the internet, point-to-point connectivity, and point to multi-point connectivity to underserved areas. Businesses will be able to compete on a state, regional and national level. Residents will have access to more living wage jobs and their overall quality of life will improve with advanced medical and public safety services and educational opportunities.

DCN's project will create demand for bandwidth by enabling these entities to provide additional services or enhanced use which will promote broadband usage. Jobs totaling 167 job-years will be created indirectly by contracting and purchasing to build this network. The healthcare network will potentially be adding more staff to support the network they will build on top of the DCN network.

DCN's CCI Broadband Project will take a comprehensive community approach to meeting ND's growing broadband demands. ITD will be a vital partner in the coordination, support and collaboration between the public and private sectors in ND. DCN is also partnering with five Round 1 BIP and BTOP awardees. All three BIP awardees are ND companies with one serving a Native American reservation. South Dakota Network, LLC received more than \$20 million in



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BTOP funding in Round 1. If awarded funding, DCN and SDN would be able to connect more than 1,000 critical community anchors and public service entities in ND and SD and across the upper Midwest.

Recovery Act and Other Governmental Collaboration:

In order for DCN's CCI Broadband Project to have the most positive, direct impact to all of ND's critical community anchor institutions and residents, DCN will continue to collaborate with government entities, which is already a part of its current business structure. Since 2000, DCN has been the primary Wide Area Network service provider for the North Dakota Information Technology Department (ND ITD). Since 2000, DCN and ND ITD have worked together to create high-speed, dependable connections to over 500 sites in ND. These sites include K-12 schools, higher education institutions, community colleges, state agencies, National Guard facilities and healthcare facilities and entities.

In 2009, ND ITD received \$1.6 million through the ARRA Broadband Data and Development Program. A portion of that funding will be used for state wide broadband planning. The planning will include critical anchor partners and stakeholders. DCN will play an important role in the statewide broadband planning for the future. Planning will also include collaboration with members of the ND Health Information Technology Office (HIT) and Advisory Committee whose mission is to deploy a statewide health information exchange (HIE) as provide by the HITECH Act. In addition, the ND Medicaid director and the ND Dept. of Human Services will join the partnership as a health information exchange plan is created for ND Medicaid.

ND ITD also received \$5.34 million through the HITECH Act to create strategic and operational plans to develop a statewide health information exchange. ND ITD, HIT, and DCN will work together to strategically leverage existing and new infrastructure to connect as many healthcare providers as possible. The transfer of information across the state of ND's healthcare providers will be supported by a 10 Gig Ethernet Ring, exclusive to healthcare entities.

In addition to state government collaboration, DCN has created a partnership with South Dakota Network, LLC, which received a \$20,572,242 grant from NTIA through Round 1 BTOP funding. The interconnection between DCN and SDN will expand the regional reach and extend the broadband availability in both SD and ND and across the nation through nongovernmental partnerships. The proposed dedicated 10 Gig Ethernet medical network and fiber connections to educational institutions, state agencies, and public safety offices will help fulfill the broadband



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service needs of the population and connect more than 1,000 critical community anchor institutions between the two states.

Three of DCN's project partners have been awarded BIP funding. These projects will be able to provide better service to their subscribers if DCN is awarded BTOP funding.

This project can only come to fruition through governmental and partner collaboration and funding through NTIA's BTOP program.

Fit with BTOP CCI Priorities:

DCN has proven middle mile commitment to community anchor institutions and public safety entities since 2000. Over the past decade, DCN has expanded its service offerings and areas and has developed relationships with governmental agencies and industry leaders to create a broadband infrastructure that is secure, dependable and fast. Through this past experience, DCN is confident it can exceed BTOP priority criteria.

COMMUNITY ANCHOR INSTITUTIONS CONNECTED: DCN's CCI Broadband Project will provide fiber connectivity to [REDACTED] of ND's critical anchor institutions ([REDACTED] are already connected through project supporters), and will be capable of providing a minimum 100 Mbps and will create an infrastructure that is able to grow to 1 Gbps or greater.

The following list is the [REDACTED] sites DCN provides fiber based facilities to today:

K-12 Schools & Libraries: [REDACTED]

Medical or Healthcare Provider: [REDACTED]

Public Safety Entity: [REDACTED]

Community Colleges: [REDACTED] ([REDACTED] are Native American)

Other Higher Ed Locations: [REDACTED]

Other Government Locations: [REDACTED]

The following list includes the [REDACTED] sites DCN's is proposing to construct fiber facilities to:

K-12 Schools & Libraries: [REDACTED]

Medical or Healthcare Provider: [REDACTED]

Public Safety Entity: [REDACTED]

Community Colleges: [REDACTED]-All ND community colleges are served via fiber facilities

Other Higher Ed Locations: [REDACTED]-All ND colleges are served via fiber facilities



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Other Government Locations: 36

PUBLIC-PRIVATE PARTNERSHIP: DCN's project will be backed by several Public-Private partnerships. Public partnerships include ND ITD, ND National Guard, ND Dept. of Human Services, ND Department of Transportation, and ND State Radio Department.

DCN is partnering with 13 companies who will be sub-recipients to the grant and will be responsible for the construction of facilities within their areas. Additionally, DCN is collaborating with five Round 2 BIP applicants and four Round 1 BIP and BTOP awardees.

ECONOMIC GROWTH: The DCN project will bolster growth in economically distressed communities (designated by the Federal Highway Association) which include the following counties: Rolette, Pierce, Bensen, Dunn, Kidder, Grant, Sioux, Slope and Golden Valley. Based on the project cost, 167 job-years will be created.

PUBLIC SAFETY: DCN's project will connect fiber fed Carrier Ethernet connections to the following 77 public safety entities: ND National Guard, state radio sites, ND state radio control center, 17 of 21 PSAP 911 locations, Department of Transportation locations, and the state data center. DCN's project will also connect fiber fed Ethernet circuits to 223 medical or healthcare providers.

LAST MILE COMPONENT: DCN is partnering with 13 companies in ND who have provided letters stating they will provide last mile connectivity in their respective service territories.

INFRASTRUCTURE FUNDING: DCN and private partners are committed to providing \$4,620,496 which represents a 30% match of the \$15,401,653 total project amount of funding requested.

Is the applicant seeking a waiver of the Buy American provision pursuant to section x.Q of the NOFA?

➤ No

Is the applicant delinquent on any federal debt?

➤ No

If Yes, justification for delinquency:



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Are you seeking a waiver of any requirement set forth in the NOFA that is not mandated by statute or applicable law?

➤ No

Is the applicant a current recipient of a grant or loan from RUS?

➤ No

C. Partners

Are you partnering with any other key institutions, organizations, or other entities for this project?

➤ Yes

If YES, key partners are listed below:

Project Role: Sub-recipient
Name: Bulawa, Derrick
Phone: 7014752361
Email: derrick@bektel.com
Address 1: 200 East Broadway
Address 2:
Address 3:
City: Steele
State: North Dakota
Zip Code: 58482
Organization: BEK Communications
Organization Type: Cooperative or Mutual
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Carlson, Kenneth
Phone: 7012565150
Email: kcarlson@utma.com
Address 1: 411 7th Avenue
Address 2:
Address 3:
City: Langdon
State: North Dakota
Zip Code: 58249



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Organization: United Telephone Mutual Aide Corporation
Organization Type: Cooperative or Mutual
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Larson, Keith
Phone: 701952100
Email: keithl@daktel.com
Address 1: 213 2nd Avenue N.W.
Address 2:
Address 3:
City: Jamestown
State: North Dakota
Zip Code: 58401
Organization: Dakota Central Telecommunications Cooperative
Organization Type: Cooperative or Mutual
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Other
Name: Shlanta, Mark
Phone: 6053347185
Email: mark.shlanta@sdncommunications.com
Address 1: 2900 W. 10th Street
Address 2:
Address 3:
City: Sioux Falls
State: South Dakota
Zip Code: 57104
Organization: SDN Communications
Organization Type: For-profit Entity
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Wilhelmi, Mark
Phone: 7016282522
Email: markw@midstatetel.com
Address 1: 215 S. Main Street
Address 2:
Address 3:



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

City: Stanley
State: North Dakota
Zip Code: 58784
Organization: Midstate Telephone Company
Organization Type: For-profit Entity
Small business: Yes
Socially and economically disadvantaged small business concern: No

Project Role: Other
Name: Feldner, Lisa
Phone: 7013283190
Email: lfeldner@nd.gov
Address 1: 600 E. Boulevard Avenue
Address 2:
Address 3:
City: Bismarck
State: North Dakota
Zip Code: 58505
Organization: North Dakota Information Technology Department
Organization Type: State or State Agency
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Kilde, Tyler
Phone: 7014373300
Email: tylerk@mlgc.com
Address 1: 301 Dewey Street
Address 2:
Address 3:
City: Enderlin
State: North Dakota
Zip Code: 58027
Organization: Moore & Liberty/Griggs County Telephone
Organization Type: For-profit Entity
Small business: Yes
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Dircks, Dave
Phone: 7016621100
Email: daved@ndtel.com



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Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Address 1: 211 22nd St. NW
Address 2:
Address 3:
City: Devils Lake
State: North Dakota
Zip Code: 58301
Organization: North Dakota Telephone Company
Organization Type: For-profit Entity
Small business: Yes
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Schmitt, Dwight
Phone: 7015683331
Email: dwights@nccray.com
Address 1: 111 Railroad Avenue
Address 2:
Address 3:
City: Ray
State: North Dakota
Zip Code: 58849
Organization: Northwest Communications Cooperative
Organization Type: Cooperative or Mutual
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Dunning, David
Phone: 7012847221
Email: ddunning@polarcomm.com
Address 1: 110 4th Street E
Address 2:
Address 3:
City: Park River
State: North Dakota
Zip Code: 58270
Organization: Polar Communications Mutual Aid
Organization Type: Cooperative or Mutual
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient



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Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Name: Anderson, Keith
Phone: 7019248815
Email: kander@ictc.com
Address 1: 556 Main Street
Address 2:
Address 3:
City: Nome
State: North Dakota
Zip Code: 58062
Organization: Inter-Community Telephone Company
Organization Type: For-profit Entity
Small business: Yes
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Aslakson, Royce
Phone: 7018623115
Email: royce@restel.com
Address 1: 24 Main Street
Address 2:
Address 3:
City: Parshall
State: North Dakota
Zip Code: 58770
Organization: Reservation Telephone Cooperative
Organization Type: Cooperative or Mutual
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Lysne, Steve
Phone: 7018585231
Email: stevedl@srttel.com
Address 1: 3615 North Broadway
Address 2:
Address 3:
City: Minot
State: North Dakota
Zip Code: 58702
Organization: SRT Communications, Inc.
Organization Type: Cooperative or Mutual
Small business: No



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Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Schuetzler, Paul
Phone: 7014834000
Email: paul@consolidatedtelcom.com
Address 1: 507 South Main
Address 2:
Address 3:
City: Dickinson
State: North Dakota
Zip Code: 58602
Organization: Consolidated Telecom Company
Organization Type: Cooperative or Mutual
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Olson, Jeff
Phone: 7015538309
Email: jeffolson@rrt.net
Address 1: 506 Broadway
Address 2:
Address 3:
City: Abercrombie
State: North Dakota
Zip Code: 58001
Organization: Red River Telephone
Organization Type: Cooperative or Mutual
Small business: No
Socially and economically disadvantaged small business concern: No

Description of the involvement of the partners listed above in the project.

PROJECT PARTNERS:

The following project partners will be sub-recipients for DCN's CCI Broadband Project. They connect to the DCN backbone network and will provide the connectivity to the community anchor institutions within their serving territory having responsibility for installation and



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maintenance of the fiber and related equipment. They are also financial contributors to the 30% matching requirement.

*BEK Communications Cooperative serves 6,416 customers in 18 exchanges. BEK received RUS Round 1 BIP funding for \$4,003,044. Contribution \$198,650.

*Consolidated Telcom serves 7,481 customers in 18 exchanges. Consolidated Telecom is applying for Round 2 RUS BIP funding (Grant ID 6190). Contribution \$248,840.

*Dakota Central Telecommunications Cooperative serves 4,343 customers in 12 exchanges. DCT received RUS Round 1 BIP funding for \$4,751,847. Contribution \$158,955.

*Inter-Community Telephone Company serves 2,310 customers in nine exchanges. Contribution \$213,764.

*Moore & Liberty/Griggs County (MLGC) Telephone Company serves 2,776 customers in six exchanges. MLGC is applying for Round 2 RUS BIP funding (Grant ID 7576 and Grant ID 4547) as a co-applicant with Griggs County Telephone Company. Contribution \$28,036.

*Midstate Telephone Company provides over 1,805 access lines in five communities. Contribution \$42,311.

*North Dakota Telephone Company serves 15,144 customers in 25 exchanges. Contribution \$155,562

*Northwest Communications Cooperative serves 4,892 customers in 16 exchanges. Contribution \$465,106.

*Polar Rural Telephone Mutual Aid Corporation serves 10,253 customers in 29 exchanges. Contribution \$411,125.

*Red River Rural Telephone Association serves 4,314 customers in 11 exchanges. Red River is applying for Round 2 RUS BIP funding (Grant ID 4733). Contribution \$147,817.

*Reservation Telephone Cooperative service to 8,587 customers in 21 exchanges and is located on the Fort Berthold Indian Reservation. Reservation Telephone is awaiting final notification of Round 1 RUS BIP funding for \$21.9 million. Contribution \$28,461.

*SRT (Souris River Telecommunications) serves 33,719 customers in 26 exchanges. Contribution \$156,053.

*United Telephone Mutual Aid Corporation serves 11,042 customers in 15 exchanges including the Turtle Mountain Indian Reservation. Contribution \$69,498.

KEY PARTNERS

ND INFORMATION TECHNOLOGY DEPARTMENT (ND ITD) is charged with creating a collaborative environment among state agencies in an effort to maximize and improve



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information technology efficiency across the enterprise. ND ITD oversees IT Planning, project management, enterprise architecture, procurement and enterprise initiatives.

ND ITD is a Key Partner for this project and serves as the interface for the educational and public safety portions of the project. Public safety includes department of transportation, National Guard and state radio. They effectively provide the planning, project management, network design and procurement functions for these areas.

In addition, ND ITD has an instrumental role in the Health Information Technology Advisory Committee interfacing with statewide state health departments, medical/healthcare associations and professional medical groups. ITD provides input for the Medical IT planning, network design and management for Initiatives such as Electronic Medical Records.

ORGANIZATIONS INVOLVED IN PROJECT includes the following: Department of Health, ND Healthcare Association (Hospitals & Clinics); ND Medical Association; ND Long Term Care Association; ND Department of Human Services; ND University System; ND Dept. of Transportation; ND Parks & Recreation; ND Dept. of Emergency Services and ND National Guard.

PARTNER BENEFITS for ND ITD and the affiliated groups is represented by the upgrade of existing connections to high speed fiber as well the installation of fiber facilities to locations that are currently uneconomical to serve without significant aid to construction charges. These upgraded connections will provide 100 Mbps capability with the ability to grow to 1 Gbps or more.

SOUTH DAKOTA NETWORK, LLC (SDN)

SDN is a NTIA Round 1 recipient of more than \$20 million. SDN has entered into an agreement with DCN that if DCN is awarded BTOP funding, both companies will provide connectivity of their networks. These two projects would have the capacity to connect more than 1,000 critical anchor and public safety entities.

There is no financial support planned for the Key Partners. Equipment associated with the end user location will be provided by the individual organization.

SUPPORTING MEMBER COMPANIES:



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The following member companies support DCN's project. These companies connect to the DCN backbone network providing the connectivity to the community anchor institutions within their service territory having responsibility for installation and maintenance of the fiber and related equipment. None of their service areas need construction of fiber optic facilities or build out of backbone connectivity to complete the requirements of this project.

*Dickey Rural Telephone Cooperative serves 10,359 customers in 33 exchanges.

*West River Telecommunications Cooperative serves 25 exchanges, with 17,313 customers including the Standing Rock Indian Reservation.

*IdeaOne Telecom Group serves the Fargo, ND Moorhead, MN area as a Competitive Local Exchange Carrier (CLEC).

D. Congressional Districts

Applicant Headquarters

- North Dakota

Project Service States

North Dakota

Project Service Areas

North Dakota - At-Large

Will any portion of your proposed project serve federally recognized tribal entities?

- Yes

Indicate each federally recognized tribal entity your proposed project will serve.

Spirit Lake Tribal Council



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Three Affiliated Tribes Business Council

Turtle Mountain Band of Chippewa

Standing Rock Sioux Tribal Council

Have you consulted with each of the federally recognized tribal entities identified above?

➤ Yes

E. Service Area Details

Is the applicant seeking a waiver for providing less than 100% coverage of a service area?

➤ No

Project Details

Service Area Type: Middle Mile
Service Area Name: Adams
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 34
Total Number of Households in Service Area: 14
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 25,938
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 33



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Service Area Type: Middle Mile
Service Area Name: Arthur
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 52
Total Number of Households in Service Area: 20
Total Number of Businesses in Service Area: 6
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 35,250
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 38

Service Area Type: Middle Mile
Service Area Name: Belcourt
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 34
Total Number of Households in Service Area: 4
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1



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Unemployment Rate in the Service Area: 21
Median Income in the Service Area: 25,938
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 30

Service Area Type: Middle Mile
Service Area Name: Bismarck
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 2,001
Total Number of Households in Service Area: 788
Total Number of Businesses in Service Area: 152
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 17
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 39,422
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 45

Service Area Type: Middle Mile
Service Area Name: Bowbells
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:



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Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 30,455
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 31

Service Area Type: Middle Mile
Service Area Name: Cando
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 31,989
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 34

Service Area Type: Middle Mile
Service Area Name: Cavalier
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.



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Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 236
Total Number of Households in Service Area: 85
Total Number of Businesses in Service Area: 12
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 48,450
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 33

Service Area Type: Middle Mile
Service Area Name: Cooperstown
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 60
Total Number of Households in Service Area: 2
Total Number of Businesses in Service Area: 10
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 28,705
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 35

Service Area Type: Middle Mile
Service Area Name: Crosby



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Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 23
Total Number of Households in Service Area: 8
Total Number of Businesses in Service Area: 9
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 26,382
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 35

Service Area Type: Middle Mile
Service Area Name: Dickinson
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
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Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 300
Total Number of Households in Service Area: 132
Total Number of Businesses in Service Area: 55
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 8
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 31,542
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 44



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Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Service Area Type: Middle Mile
Service Area Name: Drayton
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 4
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 37,344
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 39

Service Area Type: Middle Mile
Service Area Name: Edinburg
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 33
Total Number of Households in Service Area: 12
Total Number of Businesses in Service Area: 6
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 28,500



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Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 31

Service Area Type: Middle Mile
Service Area Name: Edmore
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 56
Total Number of Households in Service Area: 8
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area:
Median Income in the Service Area: 26,250
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 33

Service Area Type: Middle Mile
Service Area Name: Fargo
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
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Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 1,192
Total Number of Households in Service Area: 560
Total Number of Businesses in Service Area: 23



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Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 10
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 35,510
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 46

Service Area Type: Middle Mile
Service Area Name: Fessenden
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 31,750
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 34

Service Area Type: Middle Mile
Service Area Name: Fordville
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.



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Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 6
Total Number of Households in Service Area: 4
Total Number of Businesses in Service Area: 6
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area:
Median Income in the Service Area: 26,786
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 36

Service Area Type: Middle Mile
Service Area Name: Fort Totten
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 31
Median Income in the Service Area: 15,395
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 32

Service Area Type: Middle Mile
Service Area Name: Grafton
Rural Classification of the Last Mile Service Area: Rural



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Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 153
Total Number of Households in Service Area: 27
Total Number of Businesses in Service Area: 7
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 33,231
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 35

Service Area Type: Middle Mile
Service Area Name: Grand Forks
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
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Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 1,137
Total Number of Households in Service Area: 442
Total Number of Businesses in Service Area: 68
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 14
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 34,194
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 42



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM	Easygrants ID: 4278
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Service Area Type: Middle Mile
Service Area Name: Granville
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 24,444
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 35

Service Area Type: Middle Mile
Service Area Name: Grenora
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 26,250
Estimated Percentage of Households with Access to Broadband: 100



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM		Easygrants ID: 4278	
Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: DCN, LLC	
Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Estimated Percentage of Households Subscribing to Broadband: 33

Service Area Type: Middle Mile
Service Area Name: Hankinson
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 65
Total Number of Households in Service Area: 11
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 28,125
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 35

Service Area Type: Middle Mile
Service Area Name: Jamestown
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
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Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 353
Total Number of Households in Service Area: 139
Total Number of Businesses in Service Area: 14
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 7



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM	Easygrants ID: 4278
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 31,500
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: Larimore
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 33,292
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 30

Service Area Type: Middle Mile
Service Area Name: Lidgerwood
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM		Easygrants ID: 4278	
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Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Total Population in Proposed Service Area: 9
Total Number of Households in Service Area: 4
Total Number of Businesses in Service Area: 4
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 25,887
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 35

Service Area Type: Middle Mile
Service Area Name: Maddock
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 42
Total Number of Households in Service Area:
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 9
Median Income in the Service Area: 23,636
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 37

Service Area Type: Middle Mile
Service Area Name: Mandan
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 429
Total Number of Households in Service Area: 125
Total Number of Businesses in Service Area: 32
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 7
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 38,182
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 46

Service Area Type: Middle Mile
Service Area Name: Manvel
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 24
Total Number of Households in Service Area: 13
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 42,083
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 32

Service Area Type: Middle Mile
Service Area Name: Mayville



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 61
Total Number of Households in Service Area: 35
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 34,635
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 34

Service Area Type: Middle Mile
Service Area Name: Minnewaukan
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 27,250
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 33



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM	Easygrants ID: 4278
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Service Area Type: Middle Mile
Service Area Name: Minot
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 40
Total Number of Households in Service Area: 24
Total Number of Businesses in Service Area: 45
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 32,218
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: Minto
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 26
Total Number of Households in Service Area: 9
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 34,643



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 33

Service Area Type: Middle Mile
Service Area Name: Mohall
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 30,139
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 34

Service Area Type: Middle Mile
Service Area Name: Mountain
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass

Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 15
Median Income in the Service Area: 23,750
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 30

Service Area Type: Middle Mile
Service Area Name: Munich
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 34
Total Number of Households in Service Area: 12
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 25,156
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 33

Service Area Type: Middle Mile
Service Area Name: Osnabrock
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 71
Total Number of Households in Service Area: 17
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 43,438
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 38

Service Area Type: Middle Mile
Service Area Name: Other Area Arnegard
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 5
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 1
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 14
Median Income in the Service Area: 27,587
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 30

Service Area Type: Middle Mile
Service Area Name: Other Area Berthold



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 7
Total Number of Households in Service Area: 2
Total Number of Businesses in Service Area: 6
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 35,000
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 33

Service Area Type: Middle Mile
Service Area Name: Other Area Bottineau
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 29,022
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 38



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM	Easygrants ID: 4278
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Service Area Type: Middle Mile
Service Area Name: Other Area Butte
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 4
Total Number of Households in Service Area: 2
Total Number of Businesses in Service Area: 1
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 21,250
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 30

Service Area Type: Middle Mile
Service Area Name: Other Area Cando
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 16
Total Number of Households in Service Area: 12
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: DCN, LLC
Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass

Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 31,989
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 36

Service Area Type: Middle Mile
Service Area Name: Other Area Cavalier
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 16
Total Number of Households in Service Area: 5
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 35,667
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 32

Service Area Type: Middle Mile
Service Area Name: Other Area Columbus
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Total Population in Proposed Service Area: 4
Total Number of Households in Service Area: 1
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 9
Median Income in the Service Area: 17,679
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 34

Service Area Type: Middle Mile
Service Area Name: Other Area Dickinson
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 1
Total Number of Households in Service Area: 1
Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 31,542
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 39

Service Area Type: Middle Mile
Service Area Name: Other Area Fargo
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 3
Total Number of Households in Service Area: 3
Total Number of Businesses in Service Area: 25
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 35,510
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 46

Service Area Type: Middle Mile
Service Area Name: Other Area Grand Forks
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 3
Total Number of Households in Service Area: 1
Total Number of Businesses in Service Area: 16
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 34,194
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 39

Service Area Type: Middle Mile
Service Area Name: Other Area Halliday



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 48
Total Number of Households in Service Area: 13
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 21,500
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 33

Service Area Type: Middle Mile
Service Area Name: Other Area Hatton
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 50
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 27,031
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 39



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Service Area Type: Middle Mile
Service Area Name: Other Area Killdeer
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 170
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 6
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 32,750
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 35

Service Area Type: Middle Mile
Service Area Name: Other Area Lignite
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 7
Total Number of Households in Service Area: 2
Total Number of Businesses in Service Area: 4
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM	Easygrants ID: 4278
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 20,833
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 34

Service Area Type: Middle Mile
Service Area Name: Other Area Mandan
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 11
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 38,182
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 34

Service Area Type: Middle Mile
Service Area Name: Other Area Milton
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM		Easygrants ID: 4278	
Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: DCN, LLC	
Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 33,542
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 34

Service Area Type: Middle Mile
Service Area Name: Other Area Minot
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 9
Total Number of Households in Service Area: 3
Total Number of Businesses in Service Area: 4
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 32,218
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 39

Service Area Type: Middle Mile
Service Area Name: Other Area Pingree
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM	Easygrants ID: 4278
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

If Service Status is "Underserved" please select at least one applicable option from this list.

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area:
Median Income in the Service Area: 28,750
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 37

Service Area Type: Middle Mile
Service Area Name: Other Area Rolla
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 8
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 32,222
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 37



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM		Easygrants ID: 4278	
Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: DCN, LLC	
Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Service Area Type: Middle Mile
Service Area Name: Other Area Ryder
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 26,875
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 36

Service Area Type: Middle Mile
Service Area Name: Other Area Sentinel Butte
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area:
Median Income in the Service Area: 21,563
Estimated Percentage of Households with Access to Broadband: 48



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM		Easygrants ID: 4278	
Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: DCN, LLC	
Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Estimated Percentage of Households Subscribing to Broadband: 35

Service Area Type: Middle Mile
Service Area Name: Other Area Tioga
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 5
Total Number of Households in Service Area: 2
Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 29,740
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 36

Service Area Type: Middle Mile
Service Area Name: Other Area Valley City
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 5
Total Population in Proposed Service Area: 43
Total Number of Households in Service Area: 14
Total Number of Businesses in Service Area: 1



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 28,050
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 41

Service Area Type: Middle Mile
Service Area Name: Other Area Wahpeton
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 6
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 33,471
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 36

Service Area Type: Middle Mile
Service Area Name: Other Area West Fargo
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.



**Broadband Infrastructure Application
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Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 9
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 44,542
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 36

Service Area Type: Middle Mile
Service Area Name: Other Area Wishek
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 6
Total Population in Proposed Service Area: 16
Total Number of Households in Service Area: 4
Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 30,208
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 37

Service Area Type: Middle Mile
Service Area Name: Other Area Woodworth
Rural Classification of the Last Mile Service Area: Rural



**Broadband Infrastructure Application
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Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 9
Total Number of Households in Service Area: 5
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 36,250
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 30

Service Area Type: Middle Mile
Service Area Name: Pingree
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area:
Median Income in the Service Area: 28,750
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 35



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 10:28:33 AM	Easygrants ID: 4278
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Service Area Type: Middle Mile
Service Area Name: Powers Lake
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area:
Median Income in the Service Area: 27,143
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 39

Service Area Type: Middle Mile
Service Area Name: Ray
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 3



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Median Income in the Service Area: 31,563
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 39

Service Area Type: Middle Mile
Service Area Name: Robinson
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 7
Total Number of Households in Service Area: 3
Total Number of Businesses in Service Area: 1
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 17
Median Income in the Service Area: 30,625
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 36

Service Area Type: Middle Mile
Service Area Name: Rocklake
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:



**Broadband Infrastructure Application
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Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 1
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 19,886
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 36

Service Area Type: Middle Mile
Service Area Name: Tappen
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 31,625
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 38

Service Area Type: Middle Mile
Service Area Name: Tioga
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
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Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: DCN, LLC
Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 66
Total Number of Households in Service Area: 29
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 29,740
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 38

Service Area Type: Middle Mile
Service Area Name: Towner
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 66
Total Number of Households in Service Area: 29
Total Number of Businesses in Service Area: 12
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 25,536
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 31

Service Area Type: Middle Mile



**Broadband Infrastructure Application
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Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Service Area Name: Unicorporated Arvilla
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 10
Total Number of Households in Service Area: 4
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 35,785
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 39

Service Area Type: Middle Mile
Service Area Name: Unicorporated Menoken
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 9
Total Number of Households in Service Area: 4
Total Number of Businesses in Service Area: 4
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 41,309
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 34



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Service Area Type: Middle Mile
Service Area Name: Unincorporated Metigoshe
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 10
Total Population in Proposed Service Area: 44
Total Number of Households in Service Area: 14
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 29,853
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 33

Service Area Type: Middle Mile
Service Area Name: Unincorporated Moffit
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 1
Total Number of Households in Service Area: 1
Total Number of Businesses in Service Area: 2



**Broadband Infrastructure Application
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Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 41,309
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 36

Service Area Type: Middle Mile
Service Area Name: Unincorporated Sterling
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 41,309
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 31

Service Area Type: Middle Mile
Service Area Name: Valley City
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
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Total Square Miles in Service Area: 1



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: DCN, LLC	
Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Total Population in Proposed Service Area: 344
Total Number of Households in Service Area: 74
Total Number of Businesses in Service Area: 20
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 11
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 28,050
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 41

Service Area Type: Middle Mile
Service Area Name: Velva
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 13
Total Number of Households in Service Area: 4
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 27,738
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 37

Service Area Type: Middle Mile
Service Area Name: Wahpeton
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: DCN, LLC
Task: Submit Application - BTOP	Applicant Name: Mr. Evan A. Hass

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 19
Total Number of Households in Service Area: 1
Total Number of Businesses in Service Area: 10
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 33,471
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 41

Service Area Type: Middle Mile
Service Area Name: West Fargo
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area:
Total Number of Households in Service Area:
Total Number of Businesses in Service Area: 6
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 44,542
Estimated Percentage of Households with Access to Broadband: 100
Estimated Percentage of Households Subscribing to Broadband: 45

F. Community Anchor Summary

Community Anchor Summary



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: DCN, LLC	
Task: Submit Application - BTOP		Applicant Name: Mr. Evan A. Hass	

Schools (k-12)	■
Libraries	■
Medical and Healthcare Providers	■
Public Safety Entities	■
Community Colleges	■
Public Housing	■
Other Institutions of Higher Education	■
Other Community Support Organization	■
Other Government Facilities	■
TOTAL COMMUNITY ANCHOR INSTITUTIONS	■
Historically Black colleges and Universities	■
Tribal Colleges and Universities	■
Alaska Native Serving Institutions	■
Hispanic Serving Institutions	■
Native Hawaiian Serving Institutions	■
TOTAL MINORITY SERVING INSTITUTIONS	■

G. Project Benefits



**Broadband Infrastructure Application
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Demographics

Jobs	
How many direct jobs-years will be created from this project?	167
How many indirect jobs will be created from this project?	107
How many jobs will be induced from this project?	60

Methodology used to estimate jobs:

Based upon the reporting requirements of the Executive Office of the President's Council of Economic Advisers' Estimates of Job Creation from the American Recovery and Reinvestment Act of 2009 guidelines, DCN will create 167 job-years. Of the 167 job years created, 107 job-years represent direct and indirect effects and 60 of the job-years are induced effects. These jobs were calculated using the CEA's Simple Rule for Estimating Job-Years Created by Government Spending formula. These jobs will require a set skill base and provide above living wage salaries to residents in rural and urban North Dakota. With the potential to create 167 jobs in North Dakota, DCN's proposed BTOP project will have a positive impact on the economic development throughout the entire state.

Project Impact:

PROJECT BENEFIT

The DCN Broadband project will benefit [REDACTED] community anchor institutions. A major impact is the healthcare area with additional benefits extending to education, public safety and state agencies.

MEDICAL SERVICES throughout ND will be enhanced by the creation of a high speed Ethernet Backbone dedicated to serving Hospitals, Clinics, Long Term Care Facilities and county Health Care locations. A dedicated backbone provides a secure connection that has the high speed service that the medical community requires. Fiber connectivity to each of these locations is able to provide the initial 100 Mbps service and creates infrastructure that is able to grow to 1 Gbps or greater. This network will facilitate the secure transmission of medical records; provide for video services as well as data transmission and a connection to the Internet.

EDUCATION SERVICES in some communities are currently provided on fiber. However, there are many remote locations that do not have the advantage of high speed connectivity. This project will extend fiber to every K-12 school system putting all schools on a level playing field with regard to access to technology enabling greater use of classes via video and the use of high



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speed Internet. Schools and libraries will have the ability to grow to 100 Mbps connectivity and fiber infrastructure to grow to 1 Gbps or greater. All community colleges and higher education locations have fiber connectivity thereby creating an education network that is will enhance the educational opportunities for all students no matter where they are located.

PUBLIC SAFETY SERVICES have several components: ND Dept. of Emergency Services, State Radio Network; National Guard; and ND Dept. of Transportation (DOT). Each of the locations will have fiber connectivity. High speed capability will enable the State Radio Network to better support law enforcement throughout ND. The National Guard will benefit through the use of better data transmission and training opportunities via interactive video. The DOT has the responsibility of monitoring and maintaining the transportation system throughout the state and will use the improved network to assure highway safety.

JUSTIFICATION/PURPOSE OF THE CONNECTIONS can be shown by these support statements:

Health Information Technology (HIT) Advisory Committee: “Upgrading and expanding the capabilities of the broadband infrastructure is a vital component of meeting our vision and mission. ... it ultimately is needed to improve the healthcare quality, patient safety and overall efficiency of healthcare and public services in ND.”

North Dakota Medical Association: As part of the HIT Advisory Committee, they work toward: “an HIT solution that may include telemedicine, teleradiology, teledermatology, telepharmacy, practice management systems, disease registries, clinical messaging, electronic health records and health Information Exchanges to improve access to healthcare and records for all healthcare entities. We support DCN’s proposal to create a virtual private Healthcare Network by creating a designated 10 gigabit Ethernet backbone dedicated to the healthcare industry. Healthcare entities and the state will then have the necessary secure bandwidth for their services and connectivity to their centralized servers and databases.”

ND Healthcare Association: “We have seen the possibilities and know that if there was an expanded system that was open for multiple applications and/or uses we could enhance access to health care and education-a statewide system would also enhance economic growth across the state”



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ND Department of Health: “The increasing use of technology to respond to health emergencies and natural disasters will benefit greatly from high speed broadband connectivity around the state. Our technology needs require high-speed, dependable, broadband network connectivity to ensure we are providing adequate service to the people of ND. Without that connectivity, our systems will fail.”

ND Long Term Care Association: Our mission “...to improve healthcare quality, patient safety and overall efficiency of healthcare and public health services in ND. Upgrading and expanding capabilities of broadband infrastructure throughout the state of ND will help us achieve our goals to share information electronically among our providers.”

AARP: “...Recognizes the critical importance of a statewide broadband system for our rural state. We are particularly interested in the components of the grant that will support Medical, Healthcare and Long-Term Care services in North Dakota. If we are to achieve the goal of electronic health records that are secure yet accessible when needed for diagnosis and treatment, our current bandwidth infrastructure must be upgraded.”

ND Department of Human Services: “By building a network infrastructure which will facilitate health information exchange for all providers...your CCI project will provide a significant opportunity to improve health outcomes for North Dakotans.”

ND University System: “...broadband access is vital to ND communities’ education and health care systems, and is critically important to the future of rural America.

ND Educational Technology Council: “The use of distance education through video and online delivery is the only way these smaller schools can deliver a comprehensive high school curriculum to their students. Schools rely on network connectivity for an increasing number of applications which are essential to the way our schools operate. A robust and reliable network is required to make these new tools efficient and effective. We need DCN’s network bandwidth and speed to grow along with these increasing educational needs.”

ND Department of Transportation: “The need for network speed is becoming a necessity with the advancement of today’s technology. Radio towers positioned throughout the state provide emergency response and enforcement related radio communications between state and federal agencies. Public Agencies are dependent on the use of these towers for communications during normal day-to-day operations as well as during emergency situations. Dynamic Message Boards



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are used to provide the public instant visual information. Fiber to these sites would greatly enhance the functionality.”

ND Parks and Recreation: “...parks and recreations operations rely on dependable connectivity...for public access to information in the context of quality of life and also public safety. Park staff is part of the first responder network with local jurisdictions and accordingly need reliable connectivity”

BENEFIT TO COMMUNITIES

Medical Services are a vital function in rural communities. The ability to obtain quality medical treatment and the viability of Long Term Care facilities will enable rural citizens to remain in their communities rather than move to urban locations to obtain quality health care.

Educational Opportunities are a key element to the survivability of rural communities. When a small rural school is forced to close it often leads to the demise of the community. Rural students have a desire to succeed that can be enhanced by the use of video services and high speed access.

Public Safety in a rural environment relies heavily on radio connectivity for communication. As technology improves these functions the services require reliable high speed data connectivity for law enforcement, National Guard and emergency services.

The key elements of Medical Services, Education and Public Safety are critical to the health and well being of rural communities. The provision of these services enhances the quality of life, creates jobs and economic stability to remote locations across the State.

Potential services for businesses are increased as fiber is driven to locations where it is not economical to place. These businesses and service providers, such as wireless companies, will have access to high speed data and Internet connectivity. Wireless providers frequently request fiber connectivity to locations that are remote and uneconomical to serve.

END USERS

Medical: There will be ■ additional sites directly connected as well as an additional 345 potential medical and healthcare customers made up of pharmacies, small clinics and research facilities. The ND Health Care Association and Long Term Health Care Association have expressed support and interest on behalf of their members throughout the state.



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Educational: There will be [REDACTED] additional sites directly connected as well as an additional 36 state agencies that are potential customers.

Public Safety: There will be [REDACTED] additional sites directly connected as well as an additional four that are potential customers. The ND ITD has expressed support and interest on behalf of all of the educational and public safety groups throughout the state.

Vulnerable Populations:

The state of North Dakota is primarily rural with a population base of 611,327. As of February 5, 2010, eight North Dakota counties were listed on the U.S. Department of Transportation Federal Highway Administration's website as economically distressed areas. These eight counties have a per capita income of 80 percent or less than the national average, and the unemployment rate has been at least one percent greater than the national average unemployment rate for a 24-month period.

Additionally, since 1999, 26 of North Dakota's 53 counties have been designated as part of the United States Department of Agriculture's Renewal Communities and Empowerment Zones. These areas received special attention because of high levels of economic disadvantage, poverty rates, out migration, and minority groups.

According to 2000 census data, the 26 counties in North Dakota with USDA Empowerment and Renewal Communities designation consist of 21 percent of the state's population. These counties also average a 14.1 percent poverty rate, which is higher than the state's average poverty rate of 11.9 percent.

DCN's goal to provide middle mile broadband connection to all of the state's critical community facilities and public safety entities, which will provide the infrastructure desperately needed to provide North Dakota's 26 impoverished counties with the tools to spur economic development, and enhance public safety, education, and medical availability.

By awarding DCN BTOP funding, the federally recognized impoverished counties and communities throughout North Dakota, which make up one-third of the state's population, will directly benefit from the goals and objectives that were identified through the American Recovery and Reinvestment Act of 2009.

Level of Need:



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As a primarily rural state, North Dakota's critical community institutions face numerous challenges when trying to provide emergency medical and public safety services. K-12 schools and community colleges have to find ways to overcome teacher shortages in rural areas while still providing quality education to meet No Child Left Behind testing requirements. DCN's CCI Broadband Project proposes to provide the much needed upgraded and new construction broadband infrastructure that will connect to and serve almost every critical community institution across the state. However, DCN needs funding from NTIA's Round 2 BTOP program in order to provide connectivity across the state.

As stated in the North Dakota University System support letter, endorsed by ND's five community colleges' presidents for DCN's CCI Broadband Project, "North Dakota is a rural state with low population and large geographic distances. As a result, our community colleges have a significant investment in distance learning applications. North Dakota community colleges depend on interactive video conferencing, streaming video and on-line learning and collaborative technologies to deliver courses to K-12 education and Community College students."

Francis Ziegler, Director of the North Dakota Department of Transportation clearly stated in his letter of support for DCN's CCI Broadband Project, the NDDOT's need for advanced broadband services to state radio sites across the state of ND. Francis wrote, "Currently, the NDDOT has 40 radio towers positioned throughout the state, providing emergency response and enforcement-related radio communications between state and federal agencies. The towers are maintained by existing copper put in place in the 1960's which provides very low data speeds." Due to the remote placement of these towers, it has been cost prohibitive to upgrade the local delivery medium to fiber without charging an unrealistic up front aid to construction charge. Director of the ND Department of Emergency Services ,General Sprynczynatyk, stated in his letter of support for DCN's Project that, "The current communication system is extremely limited by the data speed. The slow, time consuming transfer of pictures, i.e. missing individuals, wanted individuals, stolen property, and cellular pictures are totally impractical for use by public safety officials who require fast information retrieval to efficiently and effectively perform their duties."

The North Dakota Medical Association is an active participant in the state's Health Information Technology (HIT) Advisory Committee as well as other initiatives as the state works toward an HIT solution that may include telemedicine, teleradiology, teledermatology, telepharmacy,



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practice management systems, disease registries, clinical messaging, electronic health records (EHR and health information exchanges (HIE) to improve access to healthcare records for all North Dakota healthcare entities. All of these services require access to broadband and connectivity to each entity across the state or a central database. According to Bruce Levi, Executive Director of the North Dakota Medical association, these services may not perform properly or will be drastically limited in function and efficiency without adequate broadband capacity. Current copper facilities will not support many of these emergency and non emergency medical services due to copper's limited broadband capacity.

McKenzie County Healthcare Systems, Inc, located in Watford City, North Dakota identified in their letter of support a clear need for upgraded broadband facilities. Daniel R Kelly, CEO stated, "Given the critical nature of our operations, the significant capital investment and the geographic distance where our servers are housed it is imperative that we have robust connectivity. At present we are serviced with copper wire technology that is slow and marginally reliable. At times we literally have transmissions which are dropped from the system. We also experience inordinately long wait times when communicating by way of the internet between our four facilities within Watford City." DCN's Partnering telephone company in the Watford City Service Area is Reservation Telephone. Reservation Telephone was awarded BIP funding in Round 1 from RUS, and they will be upgrading McKenzie County Healthcare Systems to a fiber based local loop. Reservation Telephone connects to DCN in Max, ND, which is the interconnection point where McKenzie County Healthcare Systems, Inc will access the dedicated 10 Gig Broadband Medical Backbone as proposed in DCN's application.

Sheldon Wolf, HIT Director stated in his letter of support for DCN's CCI Broadband Project that, "Upgrading and expanding the capabilities is a vital component of meeting our vision and mission. However, it ultimately is needed to improve the healthcare quality, patient safety and overall efficiency of healthcare and public services in North Dakota...through this opportunity, DCN will be able to address these concerns."

DCN was created in 1996 by 15 independent rural telecommunications companies representing 85% of all the telephone exchanges in North Dakota and over 90% of the state's total surface area.

DCN member companies currently serve over 164,000 customers in 244 communities with voice, video and broadband data connectivity. DCN and its member companies have over 10,000



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miles of fiber optic cable installed across North Dakota. Over the last several years, DCN and partnering companies have set a goal to upgrade current customers copper based local loop facilities to fiber based facilities. In many communities across the state of North Dakota, this goal has been achieved. However, there are still 177 anchor institutions in North Dakota that it has not possible due to the distance and cost of construction to these sites.

DCN's arrangement with the local exchange carriers in North Dakota has proven to be the most efficient means to address the unmet broadband needs of the area. This arrangement has been very successful as proven by delivering fiber based Ethernet services to 296 sites of North Dakota's 582 anchor institutions. Despite the aggressive efforts of DCN and partnering telephone companies there are still 177 critical anchor institutions in North Dakota needing fiber based broadband connectivity. If funded, DCN's proposed project will provide the same fiber based broadband connectivity to the remaining 177 anchor institutions in the state.

Due to the geographically disperse nature of the service areas DCN connects in North Dakota, it has historically been cost prohibitive in many cases to deliver fiber based Ethernet services to many North Dakota anchor institutions. For example, the State Radio tower located in Dickinson, ND requires aid to construction of over 58,000 feet of fiber optic cable to service that particular anchor institution. This site is one of many sites across the state of North Dakota that has a clear need for increased broadband capabilities. Unfortunately, due to the high up front aid to construction charges that the local exchange carrier requires it has prohibited this entity from purchasing the broadband service from DCN.

Based on the attached financial analysis, DCN's CCI Broadband Project's NPV calculations using the 15% discount rate, this project, with BTOP funding, becomes NPV positive in Year 14. However, when using a 0% discount rate, this project, with BTOP funding, becomes positive in Year 7.

If awarded Round 2 BTOP funding, DCN will continue to build on the existing relationship with the North Dakota state government Information Technology Department (ND ITD) to coordinate the continued rollout of fiber based broadband services to the 177 sites identified in the CCI Anchor Detail and POI section of DCN's application. Dr. Lisa Feldner, ND ITD CIO gave several examples of the need for increased broadband access to North Dakota's anchor institutions. One example she outlined was the need to upgrade broadband access to the public safety entities located in the state. Dr. Feldner stated, "Public safety is a priority for the state. In



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order to better serve the citizens of North Dakota, first responders need to have broadband capabilities statewide. The fiber upgrade to the state radio towers, as well as other public safety facilities is an important part of our statewide public safety infrastructure.

Another public safety entity that has demonstrated a clear need for DCN's CCI Broadband Project is the ND State Parks and Recreation Department. Doug Prchal, Director explained the impact of providing fiber based broadband services into every state park. He stated, "The public safety component of the department is to provide safe, accessible recreation experience. In the majority of cases [North Dakota] state parks and recreation lands do not have cell service. Accordingly park infrastructure is antiquated, causing interrupted service from external offices to the central office." Six months ago, ND ITD on behalf of the ND Parks and Recreation Department requested pricing to deploy 10 Mbps Ethernet to every state park in ND. Unfortunately, the ND State Parks and Recreation department could not justify the aid to construction charges of \$424,000 required to deliver the service. This is a clear example of why BTOP funding is needed to provide interconnectivity that government agencies and critical community institutions can afford.

Included in DCN's BTOP application is a network management system that will provide the following functionality: A highly scalable, distributed carrier-class architecture capable of supporting any size network, real-time dashboards to visualize Key Performance Indicators (KPIs) across both fault and performance data and reports, intuitive Web 2.0 interface with all the functionality of a traditional thick client, easy-to-define, root cause analysis, thresholds and workflows, automatic generation of interactive GIS-based topology network and service maps, Integrated, interactive history data, reports and charts, brand-able customer portals to enable transparency in support.

COMPETITIVE LANDSCAPE: Competition exists at some level in virtually every community in North Dakota. North Dakota's competitive landscape varies greatly based on two main elements; community size and a particular sites proximity to its service provider's respective wire or tower. DCN and partnering companies provide service in 85% of all the telephone exchanges in North Dakota and over 90% of the state's total surface area. Customers have access to Verizon Wireless and Alltel Wireless voice and data services. Midcontinent Communications is a regional cable company with a presence in 114 communities across the state of North Dakota. Midcontinent competes with DCN and partner telephone companies for voice, video and data services in each of the 114 markets they serve. Qwest has facilities in North Dakotas six



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of ND's seven largest population centers: Dickinson, Bismarck, Jamestown, Valley City, Fargo, and Grand Forks. Qwest also provides service to approximately 20 small towns along the Red River Valley on the eastern side of North Dakota. Despite the above mentioned competitive forces, the sites listed in DCN's CCI Broadband Project have, for one reason or another not been upgraded to facilities that will support the growing broadband needs that they possess.

Just as it is today, the entire proposed network will be owned and operated by DCN and partnering and supporting telephone companies. However DCN will closely collaborate with ND ITD on deploying fiber based broadband services statewide to North Dakota's 582 anchor institutions.

H. Technology

Technology Type

Indicate the technology that will be used to deliver last mile services. The following items were selected:

Wireline - Fiber-optic Cable

Other:

Technology Questions

Methodology for Area Status:

Methodology of Area Status

DCN's proposed 80 middle mile service areas are spread across the state of North Dakota. Most of the areas are underserved with the larger communities being served. In order to determine whether these areas were unserved or underserved, DCN's had a consultant to conduct phone interviews, analyze project partner subscription data (for their service areas), and researched broadband offerings from competitors.

After rural status was verified through the US Census data website for each area, the service level research began. In the Qwest areas (white area on Network Map 18.15) broadband offerings were determined by entering specific locations into Qwest's website to verify if service was available. Phone interviews of a random sampling of rural and city residents outside of the



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project partners ILEC areas (colored areas on Network Map 18.15) was conducted to verify what service providers were in the area, and what type of internet was offered. After analyzing the information from the phone surveys, DCN was able to determine that the smaller non-project partner communities/areas in the proposed funded service area were classified as underserved with less than 40% subscription rate. The larger communities of Bismarck, Fargo, Valley City, Wahpeton, Grand Forks, Jamestown, Dickinson and West Fargo were found to be served with several last mile Internet Service Providers with subscription rates over 40% based on our sample both wireline and wireless.

For the project partner areas the subscription rates of the project partners were used for those areas. Most of the areas were underserved with less than 40% subscription rate. There were two served areas in Dickinson and Minot with over 40% subscription rate and multiple last mile Internet Service Providers both wireline and wireless.

Additionally, multiple members of project partner's staff live and work in the proposed funded service areas, and have done so for several years. Their staff works with telephone and communications providers and many customers in the state. Therefore the project partners have the benefit of insider knowledge knowing exactly what kind of services are currently lacking throughout most of these areas, and how this affects economic development, public safety and quality of life.

Description of Network Openness:

DCN has established interconnection points at the Bismarck, Fargo, and Minneapolis, MN points of presence (POP's) where broadband service providers may negotiate access to the DCN internet backbone network. Broadband service providers can interconnect with DCN at T1, DS3 or fiber optic based Ethernet connections.

DCN follows the 2005 FCC Broadband Policy which encourages broadband deployment of the public Internet by ensuring that consumers are entitled to (1) access the lawful Internet content of their choice, (2) run applications and use services of their choice, subject to the needs of law enforcement, (3) connect their choice of legal devices that do no harm to the network, and (4) competition among (a) network, (b) application and service and (c) content providers.

DCN's lines and equipment are provided for use without discriminating on the public Internet content being delivered. DCN will provide a broadband network free from restriction on (1)



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content, (2) access to websites, (3) platforms, (4) the kinds of attached equipment, and (5) the modes of communication allowed while maintaining high quality network performance.

Network management policies will be posted on DCN's web page. Should any changes to these policies arise because of regulatory, business, or other reasons, customers will be notified in their billing statements and on DCN's web page with details of the changes.

DCN will provide connectivity to the public Internet directly or indirectly at reasonable rates and terms for the subscribers. Additionally, no part of this project is considered a closed network.

System Design:

Existing Network: The existing DCN network is comprised of a base fiber optic ring equipped with a Dense Wave Division Multiplexing (DWDM) core network. These interrelated elements are described as follows: Core Network-DCN's backbone operates on a 100% fiber optic communications network linking all regions of the state. The nearly 1,400-mile fiber optic based facility is part of the Local Telephone Company network. The networks are all shown in the Network Map upload 18.15. The Core Network was upgraded by completing a DWDM (ITU grid spacing) layer in 2007. This upgrade created a network that can be expanded to 72 wavelengths. Each wavelength is capable of handling 10 Gbps of bandwidth with technology available to permit expansion to 40 Gbps per wavelength. The Core Network is the infrastructure that carries the Carrier Ethernet Services, Asynchronous Transfer Mode (ATM, CCITT Standard) Services and Resilient Packet Ring (RPR, IEEE 802.17 RPR Standard) networks. Two geographically diverse Internet gateways (Routers) are incorporated into this network design. Connections from the core network to the surver providers are located at Bismarck, Jamestown, Fargo, East Grand Forks, Devils Lake, Rugby, Max, Minot, Williston and Dickinson.

[REDACTED]. The Ethernet Core (EC) is standards based on IEEE 802.1 and specifically standards for Provider Bridges (802.1ad) and Provider Backbone Bridges (802.1ah) (Carrier Ethernet). These standards allow for Ethernet networks of planetary scale. Associated standards (802.1ag and related ITU-T standard Y.1731) provide Operations and Maintenance (OAM) capabilities allowing connectivity verification, rapid recovery, and performance measurement. The carrier class Ethernet switches serves customers with increasing bandwidth demands due to data, voice and video services. The network is comprised of switches at Bismarck, Fargo, East Grand Forks and Minot. These switches are used to aggregate customer services and route the customer connections. The core switches are interconnected using the DCN RPR network.



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Internet Backbone-The Internet backbone is designed using two Gateways–located at Bismarck and Fargo. [REDACTED] are used for the Gateways and interconnect with 10GE optics over the DWDM and RPR. Separate upstream providers [REDACTED] at Bismarck and Fargo) are used to further protect connection to the Internet and dual fiber paths provide the interconnections. **Network Operations Center**-The NOC provides monitoring and maintenance functions for the network. Back up emergency power is provided with a generator and a [REDACTED] battery plant. Access is secured to the NOC and equipment space. **Proposed Network**-The proposed network will use the existing DWDM network by adding a 10 Gbps wavelength. This wavelength will be dedicated to the Healthcare Network (HN) and will extend throughout the state. New EC Switches will be added to transmit on the new wavelength. The new Switches will be 10 GE and will be located at Bismarck, Fargo, East Grand Forks, Rugby and Minot. The subscribers not belonging to the HN will be routed to the existing EC. Ethernet Aggregation Switches will be added to the edge of the network. They will gather the remote location subscriber traffic and connect to the EC. The proposed subscribers of this network will be provided Ethernet over fiber capable of up to 1GE service using E-line (service connecting two customer Ethernet ports over a WAN) or E-LAN (multipoint service connecting a set of customer endpoints) [REDACTED] These services are based on IEEE 802.1 standards and MEF specifications. Quality of Service (QoS) and security are applied at the aggregation switch based on the service subscribed to by that subscriber. DCN has QoS service level agreements from best effort to high priority (low latency) guaranteed bandwidth. NCC will be upgrading [REDACTED] existing 1GE Ethernet nodes, adding interfaces and adding one new node. This will enable them to transport their existing traffic and new traffic to the DCN backbone.

Future Upgrades:Additional capacity by adding 10 Gbps wavelengths or converting to 40 Gbps technology. The dedicated EC Switches have the capacity to grow by the simple addition of ports. The Aggregation switches have 10 Gbps capacity which will be adequate for long-term growth.

Benefits of Ethernet-Ethernet Transport provides a number of significant benefits: **Scalability**–Having the ability to easily transition to higher bandwidth services without replacing expensive equipment and additional installation charges. **Flexibility**–Services can be provisioned either using E-Line or E-LAN technologies with no replacement of equipment. **Simplicity**–Native Ethernet end-to-end makes it easy to install and maintain the customer’s network. **QoS**–Guaranteed end-to-end Service Level Agreement with end-to-end CIR and EIR. **Reliability**–Provide the same carrier class service levels as ATM and TDM network offer currently.



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DCN also looked at Ethernet over Multiprotocol Label Switching (MPLS) and due to the cost and complexity chose Ethernet Transport. Fiber Based Versus Wireless-DCN chose to deploy fiber based Carrier Ethernet services for multiple reasons: First, because of the geographically large terrain in ND, it would require a large uneconomical number of towers to service the broadband needs of the state. Secondly, even if the towers existed, there is a backhaul component that can only be accomplished via a fiber based system. DCN and partnering companies already have over 10,000 miles of fiber facilities. It is a logical step to connect to the remaining [REDACTED] anchor institutions included in DCN's application via fiber just as the existing [REDACTED] anchor institutions are connected today.

Is the applicant seeking a waiver pursuant to section IX.C of the NOFA so as to sell or lease portions of the award-funded broadband facilities during their life?

No

I. Project Budget

Project Budget		
	Federal Grant Request	Match
Last Mile	0	0
Middle Mile	10,781,157	4,620,496
Total	10,781,157	4,620,496

Project Budget Total: \$15,401,653

Match Percent: 30.0%

Projects Outside Recommended Funding Range:



Outside Leverage	
Applicant is providing matching funds of at least 20% towards the total	Yes



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eligible project costs?	
Matching cost detail	<p>Matching Cost Detail The matching costs will come from DCN and each of the project partners. Each entities amount is based on the infrastructure costs for each of their services areas. The match will be 30% cash as follows:</p> <p>DCN 30% Match: \$2,296,318, Percentage of Total: 49.70%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>BEK Communications Cooperative 30% Match: \$198,650, Percentage of Total: 4.30%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>Consolidated Telcom 30% Match: \$248,840, Percentage of Total: 5.39%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>Dakota Central Telecommunications Cooperative 30% Match: \$158,955, Percentage of Total: 3.44%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>Inter-Community Telephone Company 30% Match: \$213,764, Percentage of Total: 4.63%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>Moore & Liberty/Griggs County Telephone 30% Match: \$28,036, Percentage of Total: 0.61%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>Midstate Telephone Company 30% Match: \$42,311, Percentage of Total: 0.92%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>North Dakota Telephone Company 30% Match: \$155,562, Percentage of Total: 3.37%, Type of Funding:</p>



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	<p>Internal Cash, Use of Funding: Infrastructure</p> <p>Northwest Communications Cooperative 30% Match: \$465,106, Percentage of Total: 10.07%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>Polar Rural Telephone Mutual Aid Corporation 30% Match: \$411,125, Percentage of Total: 8.90%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>Red River Rural Telephone Association 30% Match: \$147,817, Percentage of Total: 3.20%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>Reservation Telephone Cooperative 30% Match: \$28,461, Percentage of Total: 0.62%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>SRT (Souris River Telecommunications) 30% Match: \$156,053, Percentage of Total: 3.38%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>United Telephone Mutual Aid Corporation 30% Match: \$69,498, Percentage of Total: 1.50%, Type of Funding: Internal Cash, Use of Funding: Infrastructure</p> <p>The total matching funds of \$4,620,496 which represents 30% of the total infrastructure cost. DCN and its project partners have committed to these matching costs and they are available for project use.</p>
Unjust enrichment	Neither DCN nor any of the subrecipients of DCN's proposed CCI Broadband Project have applied for federal support in the same proposed funded service area.
Disclosure of federal and/or state funding sources	DCN does not receive any direct state or federal funding. However, the North Dakota State Government applies for and receives payments from the E-Rate program. DCN currently receives \$17,879 per month, or \$214,547 annually in E-Rate compensation for the 24 K-12 schools



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	<p>the proposed DCN project is proposing to upgrade to fiber based Ethernet facilities. DCN's financial pro forma's reflect this revenue continuing for the remainder of the project.</p> <p>In addition, the Healthcare subscribers on DCN's network apply for and receive funding from USAC's Rural Healthcare program. DCN currently receives \$3,658.55 per month from USAC's Rural Healthcare Program compensation for 12 sites the proposed DCN project is proposing to upgrade to fiber based Ethernet facilities. DCN's financial pro forma's reflect this revenue continuing for the remainder of the project.</p>
Budget reasonableness	<p>Land, structure, ROW, etc.-\$355,687-Costs are for ROW clearance (easements and permits) on the cable portion of the project. Each year DCN, its project partners, and Kadrmas, Lee & Jackson (Engineer) design, bid and build hundreds of miles of fiber cable. Historically costs are around 4%. Our costs estimates are 3.6% of the total cable costs. Most of the cable is within city limits, making it easier to obtain city permits.</p> <p>Architectural and engineering fees-\$627,682-These fees are required to design the projects and define equipment requirements for bidding. The estimated design fee for the equipment is 3% of total costs (excluding NMS and Ethernet demarcation devices) or \$88,162.71. The estimated design fee for the cable projects is 5.47% or \$539,519.29.</p> <p>Based on past experience the equipment design cost is very reasonable for a project this size and importance. These costs reflect preparing specifications, drawings, bidding and recommending a vendor. Based on experience the design portion effort is between 5% and 9% of the cable costs. Several jobs will be smaller distances and will not require a lot of detail; some will be designed by project partners. These two facts lower design costs to a very reasonable 5.47%.</p> <p>Other Architectural and engineering fees-\$167,377-These costs are for</p>



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	<p>environmental clearance (research and permitting) on the cable portion of the project. From past experience easement costs are historically around 4% -7%. Our cost estimates are 3.6%. The lower percentage represents cable within city limits, which lessens environmental and historical areas. Since we are under the historical averages for this budget item, it is reasonable.</p> <p>Project Inspection fees-\$941,506-The inspection fee is estimated to be 9.55% of the cable costs. Based on past experience this type of work is between 8% and 13%. Several jobs are smaller distances and do not require a lot of inspection time the costs are lower than normal.</p> <p>Construction-\$9,860,644-Construction costs reflect cable placement, averaging \$58,175 per mile including labor and materials. The institutions we are connecting are the higher cost entities to get to and that is why they are not connected today. Based on past experience (bidding) in the areas we will be constructing, the average in town construction cost is approximately \$25,500 for rural open country placement and \$75,500 for city construction of fiber facilities. The average cost per mile for this project is high but reasonable based on historical costs and the fact that these are higher cost sites to reach.</p> <p>Equipment-\$3,448,757-Equipment costs reflect the Ethernet Core Network and Ethernet Aggregation Switches for the 10 Gbps wavelength addition and NCC's upgrade and addition to their IP transport. Bandwidth needed for these fiber connections and the healthcare network are needed for the existing, new and upgraded CCIs. These costs are reasonable based on past experience in bidding this type of equipment.</p>
Demonstration of need	<p>NEED FOR FEDERAL ASSISTANCE. This project would not have been proposed without Federal Assistance. Most of the CCI locations to be upgraded or added are located in remote locations where the addition of fiber facilities is uneconomical. The high speed required for the proposed applications can only be provided via fiber connectivity.</p>



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NO PRIOR FUNDING APPLICATIONS were submitted. The locations to be upgraded have been served on copper facilities with a limited capability for the amount of bandwidth provided, often only an ATM 1.5 Mbps Service. Since many existing circuits were installed, there has been a dramatic increase in bandwidth requirements for the CCI institutions. These new requirements were not identified to be part of past funding applications.

Healthcare requirements are a good example as the telemedicine applications and related health records needs create bandwidth needs that can only be met with fiber connectivity. These needs also generate new sites that can benefit from high speed access, such as long term care and clinics.

Public Safety services have escalated as technology is used to enhance the law enforcement capabilities. This creates the need to upgrade to high speed connections for the infrastructure serving radio towers and PSAP locations. Typically radio towers are located at remote sites that are difficult to serve and the infrastructure must cover the entire state to ensure total coverage.

Similarly, service that once was acceptable for educational applications is no longer acceptable. School locations served on copper facilities must have the higher speeds available only via fiber.

The evolution of bandwidth needs creates a requirement in remote rural locations that is economical only with the federal funding provided in this program which focuses on high speed connectivity.

THE NET PRESENT VALUE ANALYSIS followed the methodology defined in the guidelines. There were no variations from the prescribed approach. Projects that DCN analyzes for business case evaluation will typically use a discount rate of 8% rather than the 15% in the guidelines. The data provided with this application used the 15% rate.



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	<p>If the lower discount rate was utilized the NPV for the use of BTOP funds would increase by a factor of two and the break-even point for the project would be 3.5 years rather than seven years.</p> <p>MARKET PRICED SERVICES were used for this project. DCN provides pricing for services that are at the same level for remote rural sites as the more populated locations. There was no additional discount applied since that pricing is competitive with other providers and creates a level playing field for the customers located at rural sites. There is no mileage component for those sites located on the DCN Ethernet network. This pricing strategy creates a benefit for the economic development opportunities in the remote underserved areas of North Dakota.</p>
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Funds to States/Territories

States	Amount of Federal Grant Request
North Dakota	10,781,157

Funds to States/Territories Total: \$10,781,157

J. Historical Financials

Matching Funds			
	2007	2008	2009
Revenue			
Expenditures			
Net Assets			
Change in Net Assets from Prior Year			
Bond Rating (if applicable)			



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K. Project Readiness

BTOP Organizational Readiness

DCN is currently operating a fully functional broadband service network. There are over 2,500 circuits in place in North Dakota and DCN is responsible for the sales, installation, maintenance, billing and customer care. All required systems are in place and operational, and will not require assistance from key partners.

Network Operation Center

The Network Operation Center (NOC) for the entire network is managed from within North Dakota, by local technicians. DCN is committed to NOC coverage that provides quality-consistent service. Specifics relating to each of the functions follow:

DCN is a very efficient and effective organization. The entire statewide network is managed, provisioned and maintained by a trained professional staff. Through the effective coordination with the DCN Member Companies, it is possible to cover the entire state with a timely installation and quick response to trouble reports.

DCN assumes maintenance responsibility for all portions of the transport network equipment and the access loop to the NIU on the customer premise. The DCN NOC serves as the 24-hour trouble desk for network transport.

Order Management

DCN also maintains a web site that is available for established customers to place and monitor service orders and trouble reports. Major customers with substantial circuit requirements use this site. This method facilitates the initiation of customer orders and the ability to monitor installation and trouble activity.

Order Input

All internal and external orders are input via a website either directly by the customer or by the DCN staff. When the order has been loaded in the system and designed, it is sent to the customer for concurrence. Once there is concurrence the system distributes the associated orders via the Internet wherever possible.



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The status of customer orders can be accessed by DCN and designated customers. Orders to other companies are input into their systems either electronically or via fax depending on their method of operation. Once the ordering process is complete the information is forwarded to the NOC for engineering, assignment and coordination.

Trouble Reporting and Fault Isolation

DCN provides circuit maintenance and repair via Network alarms or customer trouble reports. When DCN is aware of a customer circuit outage it begins the process to identify, troubleshoot and restore the circuit to working order. Trouble reports are logged and maintained in the DCN website described as part of Order Management. The information is available to the customer through the secure website.

Affiliated companies and customers contact the DCN Network Operations Center. An Escalation process is in place when serious outages such as a cable cut occur.

Customer Billing

DCN maintains customer billing for all accounts using a software based system to create customer records and issue a monthly invoice.

Construction and Vendor Contracts

Over the past 14 years, DCN has become a state-wide leader in middle mile service offerings. In order to maintain a high level of quality control, DCN only works with companies that are experts in their area of expertise.

DCN is already partnering with industry leaders to complete the outside plant construction of the proposed DCN CCI Broadband Project. In order for construction to be completed on time and within budget according to BTOP guidelines, DCN's engineer, Kadrmas, Lee & Jackson has obtained an agreement from a highly reliable construction contractor, Master Construction, to complete the project. DCN also verified that Master Construction has the capability and equipment to complete the project; Master Construction is highly committed; and DCN has developed a strong relationship with the Master Construction and Kadrmas, Lee & Jackson.

Copies of the letters of agreement are uploaded in the Supplemental Information Section.

Customer Base



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DCN provides service to business, community anchor institutions, government entities and third party service providers. There are no residential customers served by DCN. All of the DCN customers have locations within the state of North Dakota, which is the proposed service area.

Business customers make up [REDACTED] high speed circuits out of the over [REDACTED] connections in service. These businesses are regional networks that vary from banking networks to consulting engineering firms.

Community Anchor Institutions have a total of [REDACTED] high speed circuits in place. The various Anchor Institutions and the number of base circuits are as follows: Education (K-12 and Higher Education), [REDACTED] circuits; ND State Agencies, [REDACTED] circuits; National Guard, [REDACTED] circuits; Healthcare Sites, [REDACTED] circuits; District Health Units, [REDACTED] circuits; and ND State Radio Sites, [REDACTED] circuits.

Service Provider Circuits constitute [REDACTED] circuits of the DCN base. These circuits are generally of higher speed and provide connections for wireless companies, major carriers as well as other regional networks.

DCN is the single point of contact for these services. The centralized staff provides the ordering, installation coordination, network monitoring, trouble reporting, repair and billing for all of the circuits on the DCN network, managing all of the circuits from the Network Operations Center in Bismarck, ND.

Licenses, Regulatory Approvals and Agreements

ND Secretary of State-Certificate of Organization issued August 27, 1996; Certificate of Good Standing issued June 9, 1999

ND Public Service Commission-Certificate of Registration #440 to provide statewide interexchange private line telecommunications services with facilities in ND dated May 27, 1997

Certificate of Registration #694 to resell local exchange telecommunications services issued March 15, 2000

FCC Registration Number (FRN) 004-9426-78



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Member Services Agreements:

BEK Communications Cooperative-Fiber Lease; Space Lease; Local Loop
Consolidated Telephone Cooperative-Fiber Lease; Space Lease; Local Loop
Dakota Central Telecommunications-Fiber Lease; Space Lease; Local Loop
Dickey Rural Telephone Cooperative-Fiber Lease; Space Lease; Local Loop
Inter-Community Telephone Company-Local Loop
Midstate Telephone Company-Fiber Lease; Space Lease; Local Loop
Moore & Liberty Telephone Company-Local Loop
North Dakota Telephone Company-Fiber Lease; Space Lease; Local Loop
Northwest Communications Cooperative-Fiber Lease; Space Lease; Local Loop
Polar Communications Mutual Aid Corporation-Fiber Lease; Space Lease; Local Loop
Red River Technologies, Inc.-Fiber Lease; Space Lease; Local Loop
Reservation Telephone Cooperative-Fiber Lease; Space Lease; Local Loop
SRT Inc.-Fiber Lease; Space Lease; Local Loop
United Telephone Mutual Aid Corporation-Local Loop
West River Telecommunications Coop.-Fiber Lease; Space Lease; Local Loop

SPIN Number

DCN has a certified service provider identification number (SPIN)-143022264.

Sub-recipients of DCN's proposed project that have SPINs are listed: BEK-143002737; CTC 143002202; DCT-143002739; ICMY-803313; MidState-143002208; Moore & Liberty-143002209; Griggs-143002206; NDTel-143002198; NCC-143002211; Polar-143002212; Red River-143002213; RTC-143002213; SRT-143002220; United-143002216.

L. Environmental Questionnaire

Project Description

The proposed project is primarily the installation of approximately 169.5 miles of new telecommunications fiber cable along existing rights-of-way (ROW) of local, county, and state roadways. The project is located in North Dakota. Most of the construction will be within city



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limits where environmental impacts are not an issue. There is some rural open country cable placement.

The fiber cable will be placed underground via plowing in the rural and boring of the cable in the cities. Electronics will be placed on the side of subscribers building and minor cabling will be required inside the building to facilitate the service. No alterations will be required within buildings to facilitate service. Transport equipment will be installed in existing buildings with no building alterations needed.

A Class I literature review was completed and the State Historical Preservation Office (SHPO) was consulted on this project to determine historical sites and places.

Web sites and databases of the appropriate agencies were searched for Wetlands, Critical habitats, and brownfields. These results are discussed in this questionnaire and Appendix A attachment.

Property Changes

Any property changes will be temporary. The proposed construction activities will occur in the bottom of the road ditch by plowing or in existing utility easement through directional boring; therefore minimal property changes if any will occur as a result of construction. The plow equipment used to place the cable is approximately 12 feet wide. The ground will be disturbed by bore pits and the tracks of the vehicles and plow but will be packed down immediately after construction. The areas will be seeded so that native grasses will continue to grow. No trees will be cleared as we will work around them by re-routing and/or directional boring. Minimal excavation will be required in areas where other utilities are present so that said utilities can be exposed and protected during the construction. Minimal excavation will also be required at the locations of bore pits and access pedestals/handholes. Pedestals and handholes will be placed at the edge of the right-of-way preferably adjacent to a fenceline/property line so that they are out of the way of equipment which might be used to mow the ditch or farm the adjacent land. There are areas where we propose to cross lands owned or managed by the federal government. These federal land areas include: US Fish & Wildlife Service, Bureau of Reclamation, and National Park Service. We will work with Federal agencies to obtain proper authorization and we will conform to any mandated construction or permit requirements.

Buildings



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No buildings will be constructed or modified in the course of the proposed construction. The proposed cable will be placed in the bottom of the road ditch or utility easement which is within previously disturbed public rights-of-way.

Wetlands

Three parameters that define a wetland, as outlined in the Federal Manual for Delineating Jurisdictional Wetlands (US Army Corps of Engineers, 1987), are hydrophytic vegetation, hydrology, and hydric soils. The term “wetlands” generally includes lakes, ponds, rivers, streams, sloughs, prairie potholes, forested wetlands and wet meadows. Wetlands are an important natural resource serving many functions, such as providing habitat for wildlife, storing floodwaters, recharging groundwater, and improving water quality through purification.

A large number of wetlands exist within the proposed project areas. Wetlands occurring within the areas may fall under US Army Corps of Engineers jurisdiction, Executive Order 11990, or may be part of a US Fish and Wildlife or USDA wetland easement.

The proposed cables would be buried beneath the soil surface. Installation of cables through wetlands would most likely be by the means of trenching, plowing, or boring under the wetland basins. Installation of the cables may cause temporary impacts to wetlands; however, no permanent impacts are expected from the proposed construction. Prior to construction or during project planning, the appropriate steps or process may need to be initiated to determine if any impacts occur to jurisdictional, non-jurisdictional, or easement wetlands. Coordination with the regulatory agencies will take place prior to construction of the areas.

Critical Habitats

The identified Threatened, Endangered, and Candidate Species (Whooping Crane, Black-footed Ferret, Piping plover, Western Prairie Fringed Orchid, Dakota Skipper, and Arctic Peregrine Falcon) occur in habitats that may be found within the proposed cable routes project corridor. Impacts to these areas from the proposed project would most likely be temporary in nature. Permanent impacts to these species are not anticipated. Coordination with the US Fish and Wildlife Service should take place prior to construction to help identify avoidance and minimization measures for potential impacts to the species along with potential mitigation measures if impacts are expected to occur.



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The identified endangered species (Interior Least Tern, Pallid Sturgeon, and Gray Wolf) are not anticipated to occur in habitats that may be found within the proposed cable routes project corridor. The closest habitat for the Interior Least Tern and Pallid Sturgeon is approximately 1.5 miles away from the closest segment of the project corridor, and therefore no impacts to these species are anticipated. It is unlikely that gray wolves would inhabit the project area as it located far from other known wolf populations. No impacts are anticipated to gray wolves.

Floodplain

The proposed project corridor does occur within identified floodplains of the Cart Creek, Goose River, Turtle River, Tongue River, Painted Woods Creek, Park River, and the Forest River reaches as identified from FEMA flood data. The proposed project may cross other unidentified floodplains or floodways. The proposed cable will be buried underground; therefore permanent floodplain impacts are not anticipated. There are no buildings planned for this project. any above ground structures for operation of the proposed network will be located out of flood plains.

Protected Land

A literature review of the 32 areas in North Dakota was completed by KL&J. There were a total of 472 previously recorded cultural resources. Of these, 16 are isolated finds, 30 are precontact sites; 10 are historic sites; four are multicomponent sites, and 428 are architectural sites. A total of eight previously recorded cultural resources are currently recommended as eligible for the National Register of Historic Places (NRHP). All eight are architectural in nature and will not be impacted by the proposed undertaking. An additional 407 are unevaluated for the NRHP and should be avoided.

KL&J consulted with the North Dakota State Historic Preservation Office (NDSHPO) regarding this project. KL&J recommended that areas located in relatively undisturbed environments be considered high probability settings. Previous work within the study area suggests that approximately 20% of the routes will be in high probability areas. Please see the attached letter received from NDSHPO concurring with KL&J's recommendations for further work, should the project go forward.

See attached Class I Report and SHPO response in Attachment A.

Coastal Area



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N/A

Brownfield

Brownfields are properties whose expansion capabilities or reuse of the property is hindered by the presence or potential presence of hazardous substances, pollutants or contaminants. The Brownfields Program was passed to aid states and communities in the assessment and cleanup of sites for the safe reuse of the property. EPA (Environmental Protection Agency) has set aside funding to aid the public and private sectors in their cleanup efforts.

A search of the EPA website revealed no brownfield sites listed within the proposed project area.

No brownfield sites are listed for the proposed area project areas; therefore no impacts are anticipated.



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Uploads

The following pages contain the following uploads provided by the applicant:

Upload Name	File Name	Uploaded By	Uploaded Date
Service Offerings and Competitor Data	CCI Service Offerings Competitor Data.xls	Hass, Evan	03/25/2010
Network Diagram	CCI_Network_Diagrams.pdf	Hass, Evan	03/26/2010
Build Out Timeline	CCI Build-Out Timeline.xls	Hass, Evan	03/25/2010
List of Community Anchors and Points of Interest	CCI Anchor Detail and POI.xls	Hass, Evan	03/25/2010
Management Team Resumes and Organization Chart	Management Team Resumes and Organizational Chart.pdf	Hass, Evan	03/26/2010
Government and Key Partnerships	Government & Key Partnerships.pdf	Hass, Evan	03/25/2010
Historical Financial Statements	Historical Financial Statements_DCN.pdf	Hass, Evan	03/26/2010
Budget Narrative	CCI Budget Narrative.doc	Hass, Evan	03/25/2010
Detailed Budget	CCI Detailed Budget.xls	Hass, Evan	03/26/2010



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Pro-forma Forecast	CCI Pro Forma Financial Projections.xls	Hass, Evan	03/26/2010
Subscriber Estimates	CCI Subscriber Estimates.xls	Hass, Evan	03/25/2010
Dashboard Metrics	CCI Key Metrics Dashboard.doc	Hass, Evan	03/25/2010
Service Area Data	CCI Service Areas.xls	Hass, Evan	03/26/2010
Network Maps	CCI Network Maps.pdf	Hass, Evan	03/26/2010
BTOP Certifications	BTOP Authentication and Certification.pdf	Hass, Evan	03/26/2010
SF-424 C and D	SF-424CandD.pdf	Hass, Evan	03/26/2010
Supplemental Information	Attachment A Environmental Literature Review.pdf	Hass, Evan	03/26/2010
Supplemental Information	DCN KL&J and Master Contracts.pdf	Hass, Evan	03/26/2010
Supplemental Information	CCI Anchor Detail_Existing DCN Sites.xls	Hass, Evan	03/26/2010



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