

NC Fiber Asset Management System: Ethernet Cable, Continuous Capture – NC Department of Transportation

SDE Geodatabase Feature Class



Tags

Point, North Carolina, NCDOT, Transportation, Right of Way, Highway, Communication, Intelligent Transportation System, Broadband, Network, Fiber. Fiber Assets, FAMS, Location, Ethernet Cable

Summary

This feature class contains line representation of ethernet cable paths. This feature class represents some components of NCDOT's Intelligent Transportation System (ITS) infrastructure data that support NCDOT's Fiber Asset Management System (FAMS). Attributes containing NCDOT Project ID, Owner, Cable Category, and Installation Date are included. All fiber and devices tracked in an Intelligent Transportation System (ITS) eventually terminate at a switch housed in an ITS Cabinet.

The FAMS allows for the on-going capture of NCDOT's Intelligent ITS fiber and related ITS infrastructure assets. Data included in FAMS includes fiber optic cables and related intelligent transportation system infrastructure components. This dataset is limited to ITS components that either terminate in a cabinet or fiber infrastructure operations facility. These assets are NCDOT-owned and located within the NCDOT right of way. Although all assets are owned by NCDOT, some assets may be maintained by third-party partners through legal agreements with NCDOT. The data entered are the latest available to NCDOT Traffic Systems Operations, but data currency may vary across the system.

Description

The logical representation of each ethernet cable follows a specific physical path (detailed in the NetworkInfrastructure feature class). Ethernet cables provide communication and/or power from the primary intelligent transportation system to individual intelligent transportation system devices. This layer is included in the Facility Asset Management System to document and logically understand the communication pathways between the devices and the network system. NCDOT Traffic Systems Operations currently owns and maintains hundreds of miles of fiber and related communication infrastructure across the state of North Carolina that provide connectivity for NCDOT's Intelligent Transportation System along the state-maintained roadway network. The goal of the NCDOT Intelligent Transportation System is to improve traffic conditions, minimize delays, and increase safety for all commuters in the state. This transportation infrastructure can be roughly grouped into eight categories:

- Signal systems
- Traveler information, including the Traffic Information Management System and 511
- Incident management assistance patrols
- Transportation management centers
- Traffic management and information devices
- Commercial vehicle operations
- Transit management

In an effort to accurately and reliably track the asset infrastructure that is part of the Intelligent Transportation System, NCDOT has developed a Fiber Asset Management System. The Fiber Asset Management System is a

centralized, enterprise geodatabase and service-based application used to store, track, and manage NCDOT-maintained fiber assets in a spatial data format, helping NCDOT in:

- ITS asset maintenance
- Management of fiber network connectivity details for maintenance and design purposes
- Increasing 811 accuracy and reliability
- ITS network infrastructure planning

The GIS Unit of the North Carolina Department of Information Technology-Transportation (NCDIT-T) has developed an enterprise geodatabase and system to host the spatially-based fiber assets data where it can be populated, managed, tracked, and disseminated to meet the FAMS project needs. Data includes features such as cabinets, fiber housing, fiber connections, junction boxes, poles, communication splice points, ethernet cable, electronic location markers, and buildings with NCDOT infrastructure equipment. The GIS capability of FAMS enables management and dissemination of fiber infrastructure spatial data.

Credits

The North Carolina Department of Transportation, Division of Highways, Traffic Systems Operations Unit.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

All fiber asset data is the sole property of NCDOT and any public purpose use is subject to approval and release by NCDOT. No data, whole or in part, shall be released, published, or shared without prior written approval by NCDOT. No information concerning the data shall be divulged to anyone outside the proper officials at NCDOT. All fiber asset data is strictly confidential to NCDOT and its approved contractors.

This data should be used for planning, maintenance, and decision-making support purposes only. It should be used only by those who fully understand the extents, limitations, and content of the data. The data should not be used in place of field survey or data collection efforts that are normally performed by licensed professionals and it should not replace any data collection efforts that are typically required as a part of detailed design and construction efforts.

Extent

There is no extent for this item.

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:50,000

Topics and Keywords ►

Themes or categories of the resource Location, Transportation, Utilities & Communication

Content type Geographic Services

Export to FGDC CSDGM XML format as Resource Description No

Theme keywords Line, North Carolina, NCDOT, Transportation, Right of Way, Highway, Communication, Intelligent Transportation System, Broadband, Network, Fiber. Fiber Assets, FAMS, Location, Ethernet Cable.

Thesaurus ►

Title User

Creation date 2022-05-31 00:00:00

Publication date 2022-05-31 00:00:00

Place keywords North Carolina

Thesaurus ►

Title User
Creation date 2022-05-31 00:00:00
Publication date 2022-05-31 00:00:00

Citation ►

Title NC Fiber Asset Management System: Ethernet Cable, Continuous Capture – NC Department of Transportation
Alternate titles Ethernet Cable
Creation date 2022-05-31 00:00:00
Publication date 2022-05-31 00:00:00

Presentation formats digital map
FGDC geospatial presentation format vector digital data

Citation Contacts ►

Responsible party - originator
Individual's name Stephen Wardle
Organization's name North Carolina Department of Transportation, Traffic Systems Operations Unit
Contact's position ITS Operation Engineer

Contact information ►

Phone
Voice 919-825-2621
Address
Type physical
Delivery point 1636 Gold Star Drive
City Raleigh
Administrative area NC
Postal code 27607
Country US
e-mail address swardle@ncdot.gov

Hours of service
9:00am - 5:00pm Monday – Friday

Contact instructions

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Responsible party - resource provider
Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit
Contact's position GIS Data and Services Consultant

Contact information ►

Address
Type physical
Delivery point 4101 Capital Boulevard
City Raleigh
Administrative area NC
Postal code 27604
Country US
e-mail address gishelp@ncdot.gov

Hours of service
9:00am - 5:00pm Monday - Friday

Contact instructions

Please send an email with any issues, questions, or comments regarding the Right of Way Geodatabase. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Responsible party - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

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Resource Details ►

Dataset languages English (UNITED STATES)

Dataset character set utf8 - 8 bit UCS Transfer Format

Status on-going

Spatial representation type vector

Processing environment Microsoft Windows 10 Version 10.0 (Build 18363) ; Esri ArcGIS 12.9.0.32739

Credits

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Resource Points of Contact ►

Point of contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

Contact information ►

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Resource Maintenance ►

Resource maintenance

Update frequency continual

Scope of the updates dataset

Other maintenance requirements

The North Carolina Department of Transportation, Division of Highways, Traffic Systems Operations Unit maintenance is as needed and not regularly scheduled.

Support and maintenance of the spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

Maintenance contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

Contact information ►

Address

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Delivery point 4101 Capital Boulevard

City Raleigh

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Resource Constraints ►

Constraints

Limitations of use

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Legal constraints

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Access constraints restricted

Use constraints restricted

Security constraints

Classification confidential

Classification system None

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Spatial Reference ►

ArcGIS coordinate system

Type Projected

Geographic coordinate reference GCS_North_American_1983

Projection NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet

Coordinate reference details

ProjectedCoordinateSystem

WKID 102719

XOrigin -121841900

YOrigin -93659000

XYScale 3048.0060960121928

ZOrigin -100000

ZScale 10000

MOrigin -100000

MScale 10000

XYTolerance 0.0032808333333333331

ZTolerance 0.001

MTolerance 0.001

HighPrecision true

LatestWKID 2264

WKT

```
PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],AUTHORITY["EPSG",2264]]
```

Reference system identifier
Value 2264
Codespace EPSG
Version 6.12(9.0.0)

Spatial Data Properties ▶

Vector ▶

Level of topology for this dataset geometry only

Geometric objects

Feature class name EthernetCable
Object type composite
Object count 0

ArcGIS Feature Class Properties ▶

Feature class name EthernetCable
Feature type Simple
Geometry type Polyline
Has topology FALSE
Feature count 0
Spatial index TRUE
Linear referencing FALSE

Data Quality ▶

Scope of quality information ▶

Resource level dataset

Data quality report - Completeness commission ▶

Data quality measure reference

Measure description

After processing and based on the availability of the submitter, the dataset is checked for drawing display and number of records and file sizes compared with source materials.

Conformance test results

Test passed Yes
Result explanation
Pass.

Product specification ▶

Title NCDOT Geospatial Data Specifications
Creation date 2022-05-31 00:00:00
Publication date 2022-05-31 00:00:00

Data quality report - Conceptual consistency ▶

Data quality measure reference

Measure description

This dataset is converted to file geodatabase (FGDB) format. Data quality is not automated as part of the conversion process and assessed on an irregular basis.

Conformance test results

Test passed Yes
Result explanation
Pass.

Product specification ▶

Title NCDOT Geospatial Data Specifications

Creation date 2022-05-31 00:00:00
Publication date 2022-05-31 00:00:00

Data quality report - Quantitative attribute accuracy ►

Data quality measure reference

Measure description

The source data may be checked using standard review procedures. Attributes and null values were checked by using visual inspection as well as automated verification routines. Geometry checks may be performed as a post process by users.

Conformance test results

Test passed Yes

Result explanation

Pass.

Product specification ►

Title NCDOT Geospatial Data Specifications

Creation date 2022-05-31 00:00:00

Publication date 2022-05-31 00:00:00

Lineage ►

Lineage statement

This dataset was originally created by the North Carolina Department of Transportation, Traffic Systems Operations Unit, to provide a geographic representation of ethernet cable in North Carolina. The data contained within this dataset is entered to the enterprise database environment through the Fiber Asset Management System. Geospatial services which support the Fiber Asset Management System (FAMS) are utilized by the NCDOT's Traffic Systems Operations Unit.

Process step ►

When the process occurred 2022-05-27 00:00:00

Description

The fiber asset enterprise geodatabase data is published as a series of feature services for access in the Fiber Asset Management System, maintained by the NCDIT-Transportation GIS Unit.

Process contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

Contact information ►

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address gishelp@ncdot.gov

Hours of service

9:00am - 5:00pm Monday - Friday

Contact instructions

Please send an email with any issues, questions, or comments regarding the Right of Way Geodatabase. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Process step ►

When the process occurred 2022-05-31 00:00:00

Description

The fiber asset data is originally populated by NCDOT's Traffic Systems Operations Unit.

Process contact - originator

Individual's name Stephen Wardle

Organization's name North Carolina Department of Transportation, Traffic Systems Operations Unit

Contact's position ITS Operation Engineer

Contact information ►

Phone

Voice 919-825-2621

Address

Type physical

Delivery point 1636 Gold Star Drive

City Raleigh

Administrative area NC

Postal code 27607

Country US

e-mail address swardle@ncdot.gov

Hours of service

9:00am - 5:00pm Monday – Friday

Contact instructions

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Process step ►

When the process occurred 2022-06-01 00:00:00

Description

The Fiber Asset Management System data can be captured for publication and reporting services if needed.

Process contact - resource provider

Individual's name Stephen Wardle

Organization's name North Carolina Department of Transportation, Traffic Systems Operations Unit

Contact's position ITS Operation Engineer

Contact information ►

Phone

Voice 919-825-2621

Address

Type physical

Delivery point 1636 Gold Star Drive

City Raleigh

Administrative area NC

Postal code 27607

Country US

e-mail address swardle@ncdot.gov

Hours of service

9:00am - 5:00pm Monday – Friday

Contact instructions

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Distribution ►

Distributor ►

Contact information - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

Contact information ►

Address

Type physical

Delivery point 4101 Capital Boulevard
City Raleigh
Administrative area NC
Postal code 27604
Country US
e-mail address gishelp@ncdot.gov
Hours of service
9:00am - 5:00pm Monday - Friday

Contact instructions

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Distribution format

Name SDE Geodatabase Feature Class
Version 10.9.x

Fields ►

Details for object EthernetCable ►

Type Feature Class
Row count 0
Definition
Ethernet Cable

Definition source

North Carolina Department of Traffic Systems Operations Unit

Field OBJECTID ►

Alias OBJECTID
Data type OID
Width 4
Precision 0
Scale 0

Field description

Internal feature number.

Description source

Esri

Description of values

Sequential unique whole numbers that are automatically generated.

Field Shape ►

Alias SHAPE
Data type Geometry
Width 0
Precision 0
Scale 0

Field description

Feature geometry.

Description source

Esri

Description of values

Coordinates defining the features.

Field GlobalID ►

Alias Global ID
Data type GlobalID
Width 38
Precision 0
Scale 0

Description source
NCDOT Traffic Systems Operations Unit

Field description

field of type UUID (Universal Unique Identifier) in which values are automatically assigned by the geodatabase when a row is created. The GlobalID field is necessary for maintaining object uniqueness across replicas. All feature classes and tables participating in one-way or two-way replication must contain the GlobalID field. This field is not editable and is automatically populated when it is added for existing data.

Description of values
Values vary.

Field Owner ►

Alias Owner
Data type String
Width 50
Precision 0
Scale 0

Description source
NCDOT Traffic Systems Operations Unit

Field description
Owner of the cable.

List of values

Value NCDOT
Description Cable is owned by the North Carolina Department of Transportation.
Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Municipality
Description Cable is owned by a municipality.
Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value OMC
Description Cable is owned by OMC.
Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value NCDIT
Description Cable is owned by the North Carolina Department of Information Technology.
Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value AT&T
Description Cable is owned by AT&T.
Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Spectrum
Description Cable is owned by Spectrum.
Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Crown Castle
Description Cable is owned by Crown Castle.
Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Duke Energy

Description Cable is owned by Duke Energy.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Verizon

Description Cable is owned by Verizon.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Zayo

Description Cable is owned by Zayo.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Other

Description Cable is owned by some other owner.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Unknown

Description It is not known who owns the cable.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Field Category ►

Alias Category Cable

Data type String

Width 10

Precision 0

Scale 0

Description source

NCDOT Traffic Systems Operations Unit

Field description

Cable category type.

List of values

Value CAT-5

Description Cable is a CAT-5 ethernet cable. It contains four pairs of twisted copper wire ending with an RJ-45 connector, which plugs into a standard Ethernet jack. It is the fifth generation of unshielded, twisted-pair (also known as Unshielded Twisted Pair, or UTP) Ethernet cable technology and has been the most popular twisted-pair cable since its introduction in 1995. Cat5 can also be found in the Shielded Twisted Pair variety, or STP, which offers protection against EMI and signal interference. The Cat5 Ethernet cable paved the way for high-speed internet with an ability to transfer data at 100 Mbps and 100 MHz bandwidth (100BASE-T or Fast Ethernet) but can run up to 2.5GBASE-T at shorter distances.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value CAT-5e

Description Cable is a CAT-5e ethernet cable. The newer Cat5 cable specification came out in 2001 called Cat5e (the "e" standing for "enhanced"), offering support Gigabit Ethernet speeds of up to 1000 Mbps, a bandwidth of 350 MHz and backwards compatibility with standard Cat5 cables. Cat5e cables are 10 times faster than standard Cat5 and complies with ANSI/TIA-568 standards.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value CAT-6

Description Cable is a CAT-6 ethernet cable. Cat6 Ethernet cables consist of four twisted pairs of copper wire and 250 MHz of bandwidth, supporting data transfer speeds of up to 10 Gbps (10GBASE-T). Cat6 cables use the same RJ-45 jack as Cat5 cables and previous generations of Ethernet cables.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value CAT-6e

Description Cable is a CAT-6e ethernet cable. Cat6a (the "a" stands for "augmented") cables have thicker, heavier construction than standard Cat6 cables, and individual pairs may also have metal shielding to reduce interference even further. Cat6a cables support 10 Gbps internet up to 328 feet at a maximum bandwidth of

500MHz, double the bandwidth of Cat6. These cables have stringent cable termination requirements and must comply with ANSI/TIA-568 standards. Cat6a have backwards compatibility with Cat6 and Cat6e cables due to their shared RJ-45 jack.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Other

Description Ethernet cable is some other category type.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Unknown

Description Type of Ethernet cable is unknown.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Field InstallDate ►

Alias Installation Date

Data type Date

Width 8

Precision 0

Scale 0

Description source

NCDOT Traffic Systems Operations Unit

Field description

Date cable was installed.

Description of values

Dates will vary.

Field ProjectID ►

Alias Project ID

Data type String

Width 50

Precision 0

Scale 0

Description source

NCDOT Traffic Systems Operations Unit

Field description

Identifies what NCDOT Project the ethernet cable was installed under (if available).

Description of values

Values vary.

Field Comments ►

Alias Comments

Data type String

Width 255

Precision 0

Scale 0

Description source

NCDOT Traffic Systems Operations Unit

Field description

Additional comments.

Description of values

Text.

Field created_user ►

Alias Created User
Data type String
Width 255
Precision 0
Scale 0

Description source
NCDOT Traffic Systems Operations Unit

Field description
Name of authorized user who created/added a feature to the feature class.

Description of values
Text.

Field created_date ►

Alias Created Date
Data type Date
Width 8
Precision 0
Scale 0

Description source
NCDOT Traffic Systems Operations Unit

Field description
Date and time the authorized user created/added the feature to the feature class.

Description of values
Dates vary.

Field last_edited_user ►

Alias Last Edited User
Data type String
Width 255
Precision 0
Scale 0

Description source
NCDOT Traffic Systems Operations Unit

Field description
Name of authorized user who last modified a feature or attribute value in the feature class.

Description of values
Text.

Field last_edited_date ►

Alias Last Edited Date
Data type Date
Width 8
Precision 0
Scale 0

Description source
NCDOT Traffic Systems Operations Unit

Field description

Date and time the authorized user last modified a feature or attribute value in the feature class.

Description of values

Dates vary.

Field Shape_Length ▶

Alias Shape_Length

Data type Double

Width 8

Precision 0

Scale 0

Field description

Length of feature in internal units.

Description source

Esri

Description of values

Positive real numbers that are automatically generated.

Metadata Details ▶

Metadata language English (UNITED STATES)

Scope of the data described by the metadata dataset

Scope name dataset

Last update 2022-05-17

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ISO19139

Created in ArcGIS for the item 2022-04-01 16:12:24

Last modified in ArcGIS for the item 2022-05-17 84:62:20

Automatic updates

Have been performed Yes

Last update 2022-05-13 12:49:44

Metadata Contacts ▶

Metadata contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

Contact information ▶

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address gishelp@ncdot.gov

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Metadata Maintenance ►

Maintenance

Update frequency as needed

Scope of the updates dataset

Maintenance contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

Contact information ►

Address

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Metadata Constraints ►

Constraints

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Security constraints

Classification confidential

Classification system None

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This data should be used for planning, maintenance, and decision-making support purposes only. It should be used only by those who fully understand the extents, limitations, and content of the data. The data should not be used in place of field survey or data collection efforts that are normally performed by license professionals and it should not replace any data collection efforts that are typically required as a part of detailed design and construction efforts.

Thumbnail and Enclosures ►

Thumbnail
Thumbnail type
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