

NC Fiber Asset Management System: Splice Points, 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, Splice Points

Summary

This feature class contains point representation of fiber optic splice locations. 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, Case Size, Installation Type, Splice Count, 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

Splice points occur all along the network where two or more individual fibers are joined end to end to determine the path of the communication data flow. The fibers spliced can come from the same cable or from multiple different cables. This point layer provides the physical location of points where intelligent transportation system cabling is spliced and stores basic information about that splice. This data is necessary in understanding how the communication pathways of devices flow along the network and will be critical in maintenance, operations, and planning of the communication network to devices. 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 Point, North Carolina, NCDOT, Transportation, Right of Way, Highway, Communication, Intelligent Transportation System, Broadband, Network, Fiber. Fiber Assets, FAMS, Location, Splice Points

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: Splice Points, Continuous Capture – NC Department of Transportation

Alternate titles Splice Points

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 - 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 - 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

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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

Type physical

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City Raleigh

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Country US

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Resource Constraints ►

Constraints

Limitations of use

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Legal constraints

Limitations of use

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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 SplicePoints

Object type point

Object count 0

ArcGIS Feature Class Properties ▶

Feature class name SplicePoints

Feature type Simple

Geometry type Point

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 - Accuracy of a time measurement ►

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 splice points 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

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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 SplicePoints ►

Type Feature Class

Row count 0

Definition

Splice Points

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

A 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 SpliceID ►

Alias Splice ID
Data type String
Width 25
Precision 0
Scale 0

Description source
NCDOT Traffic Systems Operations Unit

Field description

Splice ID specific to FAMS.

Description of values
Values vary.

Field InstallType ►

Alias Splice Installation
Data type String
Width 50
Precision 0
Scale 0

Description source
NCDOT Traffic Systems Operations Unit

Field description

Describes the splice installation type (underground, aerial, cabinet, etc.).

List of values

Value Underground

Description Underground splice installation.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Aerial

Description Aerial splice installation.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Splice Cabinet

Description Splice cabinet splice installation.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Other

Description Other type of splice installation.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Unknown

Description Unknown splice installation type.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Field CaseSize ▶

Alias Case Size

Data type String

Width 100

Precision 0

Scale 0

Description source

NCDOT Traffic Systems Operations Unit

Field description

The size of the case housing the fiber optic splice point.

Description of values

Values vary.

Field SpliceCount ▶

Alias Number of Splices

Data type Small Integer

Width 2

Precision 0

Scale 0

Description source

NCDOT Traffic Systems Operations Unit

Field description

Number of splices in the intelligent transportation system cabling at the splice point.

Description of values

Values vary.

Field InstallDate ▶

Alias Installation Date

Data type Date

Width 8

Precision 0

Scale 0

Description source

NCDOT Traffic Systems Operations Unit

Field description

Date asset was installed.

Description of values

Dates vary.

Field LastSpliceDate ▶

Alias Date Last Spliced

Data type Date

Width 8

Precision 0
Scale 0

Description source
NCDOT Traffic Systems Operations Unit

Field description
Date of last splice to the fiber optic cable.

Description of values
Dates 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 splice point was installed under (if available).

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.

Metadata Details ►

Metadata language English (UNITED STATES)
Metadata character set utf8 - 8 bit UCS Transfer Format

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 2022-04-27 13:58:01
Last modified in ArcGIS for the item 2022-05-17 85:95:40

Automatic updates
Have been performed Yes
Last update 2022-05-16 10:21:29

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
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Metadata Maintenance ►

Maintenance
Update frequency as needed

Scope of the updates dataset

Contact information ►

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Metadata Constraints ►

Constraints
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Security constraints

Classification confidential

Classification system None

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Thumbnail and Enclosures ►

Thumbnail

Thumbnail type

Image file