



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**REQUEST FOR INFORMATION  
FOR  
FIBER ASSET MANAGEMENT SOFTWARE**

**RFI # 40100-51228  
April 22, 2024**

**1. STATEMENT OF PURPOSE:**

The State of Tennessee, Department of Transportation (“TDOT”) issues this Request for Information (“RFI”) for the purpose of investigating fiber asset management software. We appreciate your input and participation in this process.

**2. BACKGROUND:**

TDOT is requesting information on software to manage the statewide fiber optic cable in TDOT’s SmartWay system and other ITS deployments. This software would be used to track the details and condition of deployed fiber, plan for future design projects, and serve as a centralized system for TDOT and maintenance contractors to continuously update.

**3. COMMUNICATIONS:**

3.1. Please submit your response to this RFI to:  
Lauren Shirey, TPM2  
Department of Transportation  
505 Deaderick St  
Nashville, TN 37243  
TDOT.RFP@tn.gov

3.2. Please feel free to contact the Department of Transportation with any questions regarding this RFI. The main point of contact will be:  
Lauren Shirey, TPM2  
Department of Transportation  
505 Deaderick St  
Nashville, TN 37243  
TDOT.RFP@tn.gov

3.3. Please reference RFI # 40100-51228 with all communications to this RFI.

**4. RFI SCHEDULE OF EVENTS:**

EVENT		TIME (Central Time Zone)	DATE (all dates are State business days)
1.	RFI Issued		April 22, 2024
2.	RFI Response Deadline		May 6, 2024

**5. GENERAL INFORMATION:**

- 5.1. Please note that responding to this RFI is not a prerequisite for responding to any future solicitations related to this project and a response to this RFI will not create any contract rights. Responses to this RFI will become property of the State.
- 5.2. The information gathered during this RFI is part of an ongoing procurement. In order to prevent an unfair advantage among potential respondents, the RFI responses will not be available until after the completion of evaluation of any responses, proposals, or bids resulting from a Request for Qualifications, Request for Proposals, Invitation to Bid or other procurement method. In the event that the state chooses not to go further in the procurement process and responses are never evaluated, the responses to the procurement including the responses to the RFI, will be considered confidential by the State.
- 5.3. The State will not pay for any costs associated with responding to this RFI.

**6. INFORMATIONAL FORMS:**

The State is requesting the following information from all interested parties. Please fill out the following forms:

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TECHNICAL INFORMATIONAL FORM	
1.	RESPONDENT LEGAL ENTITY NAME:
2.	RESPONDENT CONTACT PERSON: Name, Title: Address: Phone Number: Email:

3. Brief description of experience providing similar scope of services/products:
4. Software Functionality and Features:
a. Provide a description of the specific software features for managing fiber assets.
b. Can the software track the location, ownership, and status of fiber assets?
5. Data Management:
a. How does the software handle large volumes of fiber asset data?
b. Can it import existing data from spreadsheets or databases?
c. Does it support data validation and ensure data integrity?
d. What level of data security and access controls does it provide?
6. Asset Tracking and Maintenance:
a. Can the software track maintenance schedules and history for fiber assets?
b. Does it provide alerts or notifications for maintenance tasks or potential issues?
c. How does it manage documentation related to each fiber asset (e.g., contracts, permits)?
7. Integration and Compatibility:
a. Does the software integrate with other systems used by the transportation department (e.g., asset management systems, project management tools)?
b. Is the software compatible with standard industry formats for fiber asset data?
8. Reporting and Analytics:
a. What types of reports and analytics can the software generate?
b. Can it produce financial reports related to fiber assets (e.g., cost analysis, budget forecasting)?
c. Are customizable reports available to meet specific departmental needs?

9. User Interface and Usability:
a. Is the user interface intuitive for everyday users at TDOT or will it require extensive training (how complex is the learning curve)?
b. Does the software offer mobile capabilities for field staff to access and update asset information on-site?
10. Support and Maintenance:
a. What level of technical support is included with the software purchase, and during what hours is support available?
b. Are there additional costs for ongoing support or software updates?
c. How are software updates and maintenance handled?
11. Training:
a. What training is included with the initial software purchase?
b. Is additional training available for a fee if required?
12. Scalability and Future Needs:
a. Can the software accommodate future expansion of fiber assets and infrastructure?
b. What is the scalability of the software in terms of handling increased data volumes or additional functionalities?
13. Regulatory Compliance
a. Does the software comply with relevant industry standards and regulations (e.g., FCC regulations for broadband infrastructure)?
b. How does it assist with regulatory reporting and compliance?
14. Geospatial
a. Does it support geospatial mapping and visualization of fiber assets?
b. What mapping technology is used in the software?
c. Does it support editing of fiber through a mapping interface?
d. Does it utilize geospatial data services to visualize and/or edit the fiber assets?
e. Does the software support direct integration with ArcGIS Online or ArcGIS Enterprise?

f. Can it consume and display GIS data layers (e.g., feature classes, map services) hosted on Esri's platforms?
g. Does the software leverage Esri's mapping capabilities to display fiber routes, splice points, and related infrastructure, specifically Esri's Utility Network?
h. Does the software support syncing fiber asset locations to Roadway Network IDs and Events maintained in Esri's Roads and Highways ALRS?
i. Does the software enable spatial analysis, such as calculating distances between fiber endpoints?
j. Can the geospatial data be accessed through data APIs? Statically or dynamically?
k. What formats are available for importing/exporting geospatial data?
15. Implementation
a. What is the typical timeline to implement the software?
b. What requirements are needed prior to implementation?
16. Is the software compatible with any other software or system?
17. Please confirm your ability to restrict resources to the US (onshore).

<b>COST INFORMATIONAL FORM</b>
1. Describe what pricing units you typically utilize for similar services or goods (e.g., per hour, each, etc.):
2. Describe the typical price range for similar services or goods
3. What is the pricing structure of the software (e.g., one-time purchase, subscription)?
4. Are there additional costs for implementation, training, or customization?
5. Are there any recurring costs or fees associated with the software?
6. Can the software demonstrate a clear return on investment (ROI) for TDOT?

**ADDITIONAL CONSIDERATIONS**

1. Please provide input on alternative approaches or additional things to consider that might benefit the State: