



Product overview

Intergraph G/Technology® Fiber Optic Works® from Hexagon's Safety & Infrastructure division is an advanced telecommunications GIS that provides location-based information and capabilities to enhance the complete life cycle of civil infrastructure and fiber network management – from design and construction to maintenance and operations. Fiber Optic Works supports geospatial infrastructure management needs throughout the enterprise.

Fiber Optic Works maintains a definitive source of reliable, location-based information that describes the fiber facility network and its connectivity that can be shared with users and systems across the business. Its feature-rich interface helps users plan, connect, and deploy fiber networks and supports full tracing capabilities, fault analysis, and path redundancy. Fiber Optic Works empowers users to assess, manage, and track the status of projects, equipment, and connections, and coordinates with other systems to model the full engineering life cycle.

An out-of-the-box solution, Fiber Optic Works supports operations support system (OSS) and network resource management (NRM) integration and maintains extensive attribution on each fiber device and conductor to track connectivity.

Value propositions

Fiber Optic Works 1.4.1910 more efficiently manages length values across the containment hierarchy while still retaining data integrity throughout the surrounding network.

The fiber length management system automatically maintains the lengths of all civil and fiber infrastructure features and streamlines edit workflows by reducing time spent correcting length data. The length management system responds to length edit workflows by automatically updating the length of all contained features, which reduces the time required by users to navigate to each feature in the containment hierarchy, calculate each feature's new length, and assign its value. The automatic propagation of length value throughout the containment hierarchy significantly reduces human errors.

Two new fiber products are now available: Fiber Optic Works® Services & Circuit Extensions and Intergraph NetWorks® Portal - Fiber, which are both licensed and charged separately.

Key enhancements summary

Note: The solutions in this announcement are only available in Europe, the Middle East, and Africa (EMEA). For the latest products in other areas, please contact your local account or sales representative.

Fiber length management

Fiber infrastructure networks include several levels of containment hierarchy. For instance, a trench can feature many conduits, which can contain many fiber ducts, which can contain many fiber inner ducts. If the length of the trench is updated, either by the user editing its geometry or manually updating its total length attribute value, the system must also update the lengths of all contained features. The fiber length management system responds to



length edit workflows by automatically updating the length of all contained features, reducing the time taken to navigate and update the length value of all features within the containment hierarchy.

NetWorks Portal - Fiber

NetWorks Portal - Fiber allows fiber network owners to share fiber data information across an organization through a simple-to-use web application. The solution provides modern GUI to enable easy access to fiber device contents and fiber connection details within it.

Services & Circuit Extensions

Services & Circuit Extensions gives users the necessary tools to manages their fiber logical network inventory services and circuits on top of the physical network inventory capabilities provided in Fiber Optic Works® Path Extensions. It also delivers new network visualization tools such as single line diagram, aggregated splice schematics, and infrastructure schematics.

Starting with version 1.4.1910, predefined, ready-to-use fiber database models are available in three versions configured for the following products:

- Fiber Optic Works
- Path Extensions
- Services & Circuit Extensions

Licensing & distribution

Version 1.4.1910 uses the Reprise licensing system. NetWorks Portal - Fiber and Services & Circuit Extensions should be sold separately.

For more information, visit [licensing resources](#).

Additional information & resources

Learn more by visiting the [support site](#), and the [Intergraph G/Technology Fiber Optic Works® page](#) on our external site.