

# spatialOFFLINE



## MOBILIZE THE COMMUNICATIONS FIELD WORKFORCE

Access to current network asset data is critical for workers who spend their time in the field constructing, installing, and maintaining communications networks. However, access to the asset repository is often restricted in the field due to lack of connectivity, slow VPN connections, and limited privileges to update information remotely. To make the most of network asset data in the field, Synchronoss offers spatialOFFLINE, a mobile application that allows field workers to view maps, analyze data, and edit network elements accurately and efficiently while away from the office. spatialOFFLINE excels at data validation and update, as-built change documentation, network fault management, and restoration and repair activities including recording fiber splice changes made in the field. spatialOFFLINE's intelligent data synchronization architecture ensures accuracy and currency of network inventory data in the field by downloading database updates and uploading proposed changes from spatialOFFLINE clients. As a result, spatialOFFLINE users can work with confidence that any changes made in the field will be reconciled with the network inventory database.

### Key Benefits:

- > Accurate and current network asset data in the field without requiring a network
  - > Reduced errors and rework
  - > Fewer trips back to the office
- > Map markup tools allow users across the organization to propose updates to the network infrastructure, significantly improving data quality and currency
- > Faster location of problem areas with OTDR and other network analysis tools improve critical field workforce metrics including:
  - > Lower mean time to repair (MTTR)
  - > Priority restoration support

### VIEW COMPLETE NETWORK INVENTORIES

The easy to use spatialOFFLINE client displays full network asset inventory and landbase information including outside-plant (OSP) cable, HFC, and fiber networks, support structures, sites, and inside-plant (ISP) buildings, streets, parcels, CAD layers, MDUs, and complete ISP equipment details. Because data is cached on the local devices, users pan and zoom through detailed network maps efficiently, and search tools quickly find any asset in the database by asset type, map location, or specific attribute including serial numbers, bar code IDs, or unique CLLI codes.

### EASILY UPDATE NETWORK ASSET INVENTORY DATA

With spatialOFFLINE's efficient map markup tools, users create field jobs that allow network assets to be added, deleted, or updated, including the use of GPS devices to accurately locate assets in the field. Images and documents collected in the field can easily be associated with a markup, uploaded through the synchronization process, and made available to other users. spatialOFFLINE's markup tools simplify even complex tasks like fiber splice management and provide high-level or detailed views of fiber splices so that changes to the local data cache are easy to make in preparation for synchronization with the network inventory database. spatialOFFLINE manages the user's working field jobs for easy navigation between jobs in progress and those that have been submitted for approval.

## MANAGE, SPLICE AND TRACE FIBER FROM THE FIELD

With advanced tracing tools for fiber networks, spatialOFFLINE streamlines network analysis, fault management, and restoration tasks for the field worker. Detailed views show clear, logical representations of fiber configurations, including individual fiber and usage information on loops, risers, panels, and splice cases. After easily finding and viewing available fibers, users simply drag and drop to create, edit, or remove splice connections. Optical time domain reflectometer (OTDR) analysis tools allow the field worker to select a fiber, choose parameters, and trace segment lengths through an affected fiber network to determine the exact location of the detected anomaly. These intelligent field tools give workers more productive time in the field with fewer errors and rework and less time spent back at the office.

## MANAGE MULTIPLE OFFLINE USERS

Administration tools manage data across hundreds of remote spatialOFFLINE users, extracting selected information from the network inventory database and delivering it to spatialOFFLINE clients based on defined user groups and subscribed region boundaries. Because administrators specify the type of data each user group receives, field users see only the data they need to work with. A central dashboard streamlines the management of license allocation, extract frequency, user access, and local data cache for defined user groups. To ensure convenient synchronization of data with the network inventory database, spatialOFFLINE supports all common network connection types, including Ethernet, Wi-Fi, VPN, 3G, EDGE, and standard air-cards.

Capture network asset changes in the field to improve data accuracy and currency



spatialOFFLINE is part of the spatialSUITE portfolio of network asset management products available from Synchronoss. For more information on spatialOFFLINE and the other broadband solutions available from Synchronoss, please visit our website at <http://www.synchronoss.com>.