

# Mobile Mapping for Large Telephony Networks

## Bentley's Mobile Mapping Tool

### Mobile Mapping

Bentley's Mobile Mapping Tool (MMT) provides non-networked querying and viewing of digitized land and facility records. The customizable mobile environment is designed to enable rapid field data collection, as-built reporting, and other field-based applications. MMT is integrated with GPS to provide technicians with the ability to easily locate, identify, and navigate to existing plants in day-to-day operations or in an emergency. The core software, Bentley® PowerMap Field, complements the capabilities of MMT with rich development tools and serves as the ideal platform for MMT.

### Locating and Communicating

Key in just the first few letters of a street name and you can view a list of intersecting streets. Double clicking takes you to a specific intersection, and an "Address Range" tab shows an address range by street segment. Pinpoint a cable, company pole, cross connect, manhole, multiplexer or other device by entering a unique ID or address. Locate a cell tower by address. Find facilities by engineering work order or multiple counts. MMT also lets you perform attribute reviews of facilities, streets, and cell towers, and display detailed (schematic) files. For better outside visibility, you can easily change the background or foreground color scheme and customize your viewing experience.

To create a bill of materials spreadsheet, simply draw a polygon around the area where construction is needed. Export a sketch or redlined drawing for use in a design system or MicroStation® Telco application to produce the engineering work authorization and work prints.

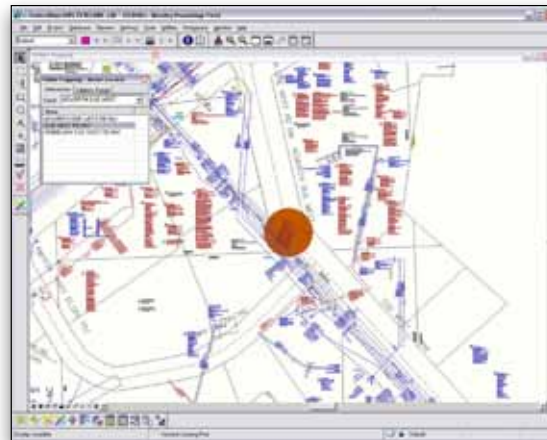
Other capabilities include extracting an area in DGN format and creating "bookmarks" of areas of interest; displaying AutoCAD DWG files, ESRI SHP and MXD files; and raster references. Information can be shared by converting files to PDF formats. If needed, files can be re-projected into other coordinate systems. MMT can be integrated with Wi-Fi GPS units in trucks or integrated with a USB GPS device.

### Reporting and Analyzing

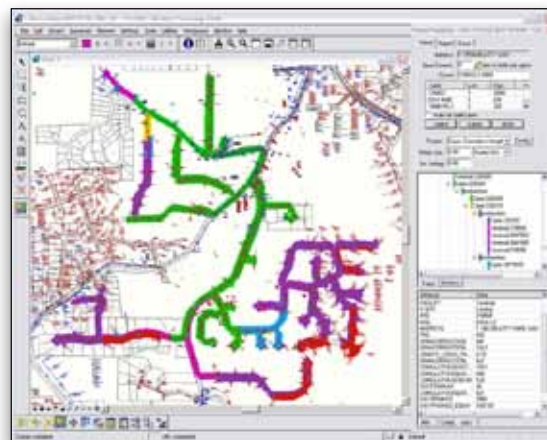
Graphical network analysis and reporting tools include capabilities for finding and reviewing cell towers, wire centers, and other facilities by multiple cable IDs. Filters are available for viewing either copper or fiber cables. Other filter options include the ability to turn buried and aerial facilities on or off, as well as boundaries and the key (index) map. A color-themed loop makeup report shows facilities graphically differentiated by color (main loop, bridge tap, end section). Loop analysis is also available, showing the color-coded distance of facilities from an interface or VRAD.

### Disaster Recovery

A field optimized Disaster Recovery Survey Wizard captures road blocks and other safety hazards that must be cleared before restoration can begin. Clicking on a street centerline picks up GPS coordinates, CLLI (Common Language Location Identifier) codes and other required information. Items to be replaced or repaired are captured by clicking on the graphical view, and damaged items can be color-coded by repair need. Selecting a street centerline populates the survey location data. An odometer tool is available for measuring downed spans. The output from a completed survey consists of a PDF file, a sketch for use in engineering design, an Excel spreadsheet of the facilities involved, and a DAT file for use in downstream construction systems.



*Bentley's Mobile Mapping Tool (MMT) includes an easy-to-use tool that assists in address locating. Simply type in the first few letters of a street and a filtered list is retrieved instantly.*



*Bentley Mobile Mapping Tool (MMT) enables field users to quickly create color-themed loop makeup reports showing facility data on a map.*