



Asset Management Services for the Telecommunications Industry

In a deregulated, highly competitive marketplace, telecommunications companies must deliver more efficient, economical, and innovative services to their customers. To assist our telecom clients in meeting market demand, James W. Sewall Company performs a comprehensive range of asset management services, including landbase development, work order posting, data conversion, and Web-based data access and archiving. Founded in 1880 as a surveying and engineering firm, Sewall has provided comprehensive geographic information systems (GIS) consulting, data conversion, and data acquisition services to energy and telecommunications companies since the 1970s. Sewall's expertise in implementing asset management systems is supported by 50 years' experience in aerial photography and landbase mapping and 30 years' experience in application development. As business partners with Autodesk, Cartegraph, and ESRI, Sewall has extensive working knowledge of software platforms that are standard to the utilities industry and to telecommunications.

LANDBASE DEVELOPMENT

For outside plant (OSP) data management, Sewall is highly qualified to provide landbase development services. On telecom projects, we have developed landbase specifications, identifying features, attributes, and the accuracy necessary to meet specific system requirements. To assist our clients, we have identified and evaluated potential data sources, including local and state governments and federal agencies. Our history of partnering with utilities and local government is a valuable asset in this process. We are also experienced in developing specifications for, documenting, and executing landbase migration from one software platform to another.

If our clients require the acquisition of new data, whether raster, vector, or orthorectified imagery, Sewall is prepared to capture aerial photography, compile planimetric features, and develop digital orthophotography. For field verification, our field force is experienced in facilities location utilizing GPS.

CENTRAL OFFICE LAYOUT

To map central office equipment (COE) and switching facilities, our analysts have assisted telecom clients in creating accurate, spatially oriented floor plans in CAD formats and developing associated databases, which include inventories of equipment type, identification number, and bar code data.

WORK ORDER POSTING

To document OSP and COE changes, Sewall has processed many thousands of work orders, posting data to continuing plant records, both hard copy schematic engineering drawings and digital raster and vector files. Our analysts are familiar with batch processing and continuous or online processing via direct connection to our client's network system. We also have the capacity to provide plotting services as needed.

SERVICES TO THE TELECOMMUNICATIONS INDUSTRY

Landbase Development

OSP specifications development
Data evaluation
New data acquisition
Field verification

Central Office Verification

COE floor plan measurement and drafting
Associated database design and linking
Inventory of lineups and bays
Barcoding

Work Order Posting

Batch and continuous processing
Plotting services

Data Conversion

Scanning and indexing
Geographic referencing
Data migration

Web Services

Web site development
Data archiving
Intranet development

DATA CONVERSION

With over 30 years' facilities data conversion experience, Sewall is uniquely qualified among industry consultants to handle telecom conversion projects. Utilizing in-house scanning equipment, we scan and index hard copy COE drawings and network diagrams, saving them as raster files or creating vector files. As an added benefit, we can interpret OSP records onto a geographically referenced landbase for a continuous, seamless representation.

Depending on client requirements, Sewall converts information from existing graphical documentation (hard copy or digital) to populate databases. Our analysts are experienced in migrating from one software platform to another. Our energy and telecommunications group has unmatched expertise in AutoCAD, Microstation, and Visio, as well as all major GIS and asset management system software tools.

WEB SERVICES

Sewall offers a range of Web services to our utility clients. We archive (host) data sets offsite, providing ftp or browser-enabled access, and we assist our clients in establishing internal Intranet systems for distributing data throughout the enterprise. With Web access, users can view, query, and publish telecom data for basic research, analysis, and reporting. Telecommunications companies realize direct benefits from online data access, which speeds dissemination of information, streamlines workflow, and creates operational efficiencies.

MAINTAINING RECORD SECURITY

To ensure client confidentiality and record security, Sewall dedicates servers, workstations, and network connections for data handling and provides password-enabled access and access tracking. Sewall facilities are secure and UPS protected, and our staff are trained in proprietary recordhandling.

For more information on Sewall's services to the telecommunications industry, please contact: Clarence Young, Project Manager, at (800) 648-4202; Email: youc@jws.com



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