

## ASSET VERIFICATION USING ADC'S NETWORK AND INVENTORY AUDIT SERVICES

### CASE STUDY

#### CHALLENGE

A major U.S. interexchange carrier needs to verify the accuracy of its asset-management database.

#### STRATEGY

As a test, conduct a network and inventory audit on a "typical" office in the Midwest.

#### RESULTS

Utilizing a detailed site-assessment process, ADC found more than 235 discrepancies, including pieces of removed equipment that were included in the asset-management database. ADC provided a complete and detailed inventory as well as recommendations to optimize performance at this site.



## BUSINESS CHALLENGE

As part of its ongoing effort to reduce its overall costs and improve the performance of its network, a major U.S. interexchange carrier sought to verify its assets. As an initial step in this process, the carrier wanted to test the accuracy of its asset-management system. The carrier turned to ADC to develop a model network and inventory audit to determine the scope of any discrepancies.



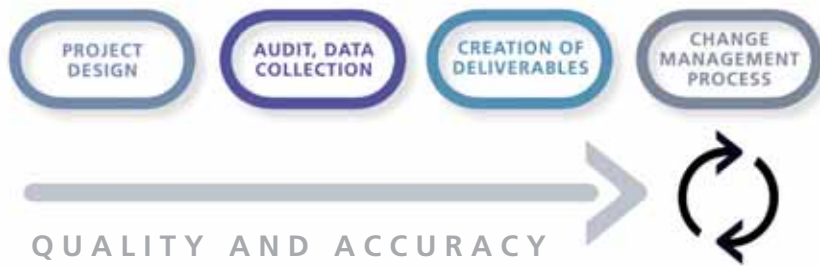
## ADC SOLUTION

As a first step, an ADC audit team worked with the customer to create a sample audit. This consisted of identifying five representative DSX-1 bays and validating the asset-management database against the actual on-site DSX connections and equipment location and status. Additionally, ADC recommended auditing the battery distribution fuse bay (BDFB) and fuse panel positions, open DSX ports, DSX cross-connect details and rack elevations. By adding these elements, the audit would determine:

- Underutilized bay, DSX and fuse panel positions
- Floor, bay, DSX and fuse panel positions that could be reclaimed through previously undocumented equipment removals
- Opportunities to reclaim floor space through compression retrofitting of older DSX long-frame panels
- Cable mining opportunities as the result of serious overhead cable congestion

Using the audit design, a team of ADC professional auditors gathered data from both active and passive equipment. All information was verified through a quality-assurance process to ensure accuracy.

The deliverables included a detailed comparison of the carrier's asset-management database to the actual inventory as well as photos and drawings of the DSX panels, and DC power logs with equipment photos.



**A PROCESS-DRIVEN APPROACH TO ACCURATELY DOCUMENT:**

- Network build-out
- Engineering records
- Facility interconnects
- Equipment asset verification
- Plug-in modules
- Cable mapping
- Power and ground
- Tower and antenna

The audit found 235 discrepancies between the asset-management database and the actual inventory. These included:

- Six pieces of equipment removed but still recorded in the database
- Nine equipment location records that were incorrect
- One active equipment shelf not listed in the database

In addition, the audit found that:

- 12% of the circuits were either out of date or cabled to equipment that was no longer in service
- 30% of the tie pair blocks in each bay were empty in the rear
- Incorrect equipment designation

As a result of this audit, ADC recommended:

- The audit be extended to include all the equipment throughout the office
- Removal of all circuits and cross-connects within retired equipment
- Redesignation of equipment that had been realigned
- Cable unused tie blocks to add more tie pairs between the aisles
- Removal of unused DSX panels
- Cable mining to remove excess cabling
- Removal of retired equipment to recover floor space

**BENEFITS**

Using ADC’s Network and Inventory Audit service, the carrier had an accurate representation of the its asset-management database to its actual physical inventory, from which it could determine whether to move forward with a larger-scale asset verification program. As an added benefit, the carrier received actionable recommendations to optimize the facility.

ADC Network and Inventory Audit Service ensures accurate and detailed reports and recommendations that affect operational areas including:

- Asset verification and recovery
- Engineering and planning
- Provisioning
- Trouble administration
- Facilities optimization

## ABOUT ADC PROFESSIONAL SERVICES

Through its Professional Services organization, ADC helps plan, deploy and maintain telecommunications networks throughout the United States and Europe. ADC's unique experience in multivendor, multitechnology, multiservice solutions makes ADC the ideal choice for projects that require an in-depth, hands-on understanding of simple to complex network environments.

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- Network and Inventory Audit
- Engineering

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