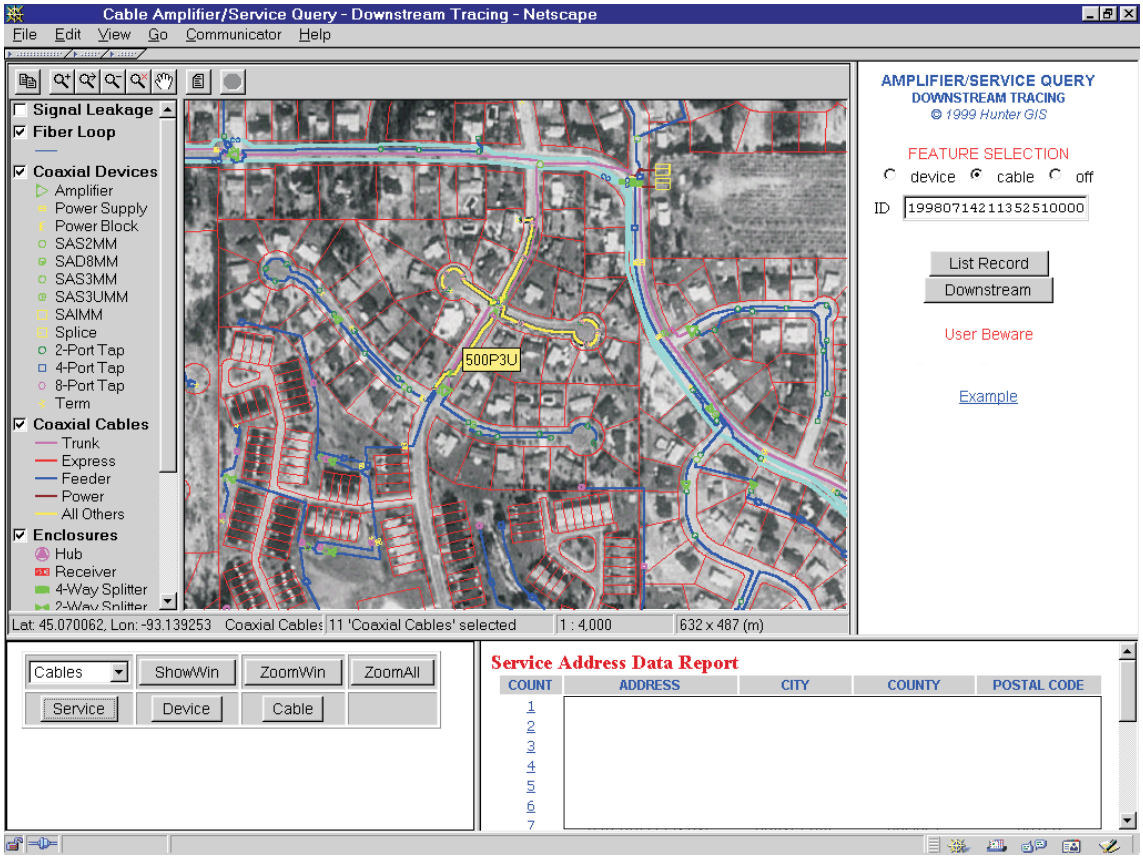
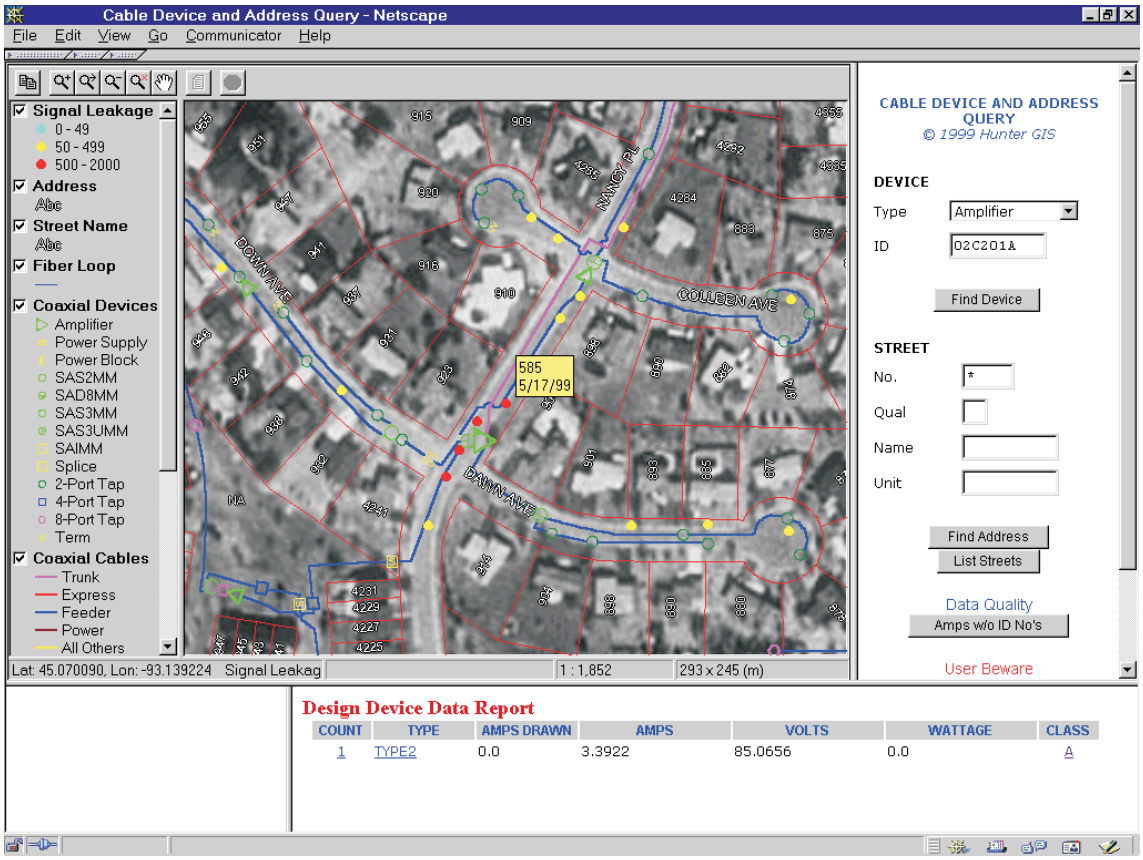
Hybrid Fiber-Coax Plant Infrastructure





Hybrid Fiber-Coax Plant Infrastructure

Introduction

The HUNTER GIS Web-based Hybrid Fiber-Coax (HFC) Plant Infrastructure Solution for Autodesk MapGuide permits Web publishing of HFC Plant Infrastructure graphics and data for access on Corporate Intranets, Extranets and Internets.

This HFC Solution is designed to access local and/or remote servers with Base Mapping, Orthophotos, Single Line Street Networks, and Parcel Tax Assessment, Call Centre and Corporate Billing Information. Published HFC Plant Infrastructure data may be distributed to Maintenance crews, Customer Call Centre, Dispatch, 'One Call' and Emergency Response agencies.

Important features and capabilities include:

Plant Infrastructure
- Layer-based schema for HFC plant infrastructure and cable route locations
- Integrated Coaxial Device and Street Name searches with "Zoom Goto" functions
- Address-based querying for HFC services
- Coaxial device query for access to device database
- "List Streets" function for rapid address-based queries
- "List Fields" and "List Street" functions to assist in generating complex ad-hoc queries
- Integrated multi-function SQL queries and hyperlinked on-screen reporting
- Hyperlinked access to infrastructure picture images for desktop viewing
- Integrated Data Quality and User Beware features

Cable (Tracing)
- Coaxial cable and device query based on database connectivity models
- Determines all coaxial cables, devices and addresses affected downstream from the selected feature
- "List Record" function to preview/confirm features selected for isolation
- Results output to the desktop allowing multi-user connection to the application
- Generation of notification lists and mailing labels

Cable Infrastructure Management
- Integrated cable management databases
- Planning period, date-based record retrieval for scheduled, backlog, completed and cancelled device inspections and testing
- Address-based querying for customer service
- Live links to cable leakage detection information showing location of leakage points and network performance

Interactive Map Redlining and Editing
- Update and edit published vector-based cable infrastructure datasets
- Interactive addition, editing or deletion of database records linked to newly created or modified/deleted HFC plant features
- On-line updating of as-built data and graphics or field changes from remote sites via redlining solution
- Provides the ability of the remote user to interactively submit new cable plant mapping features and associated database attributes, or to post textual information such as field notes

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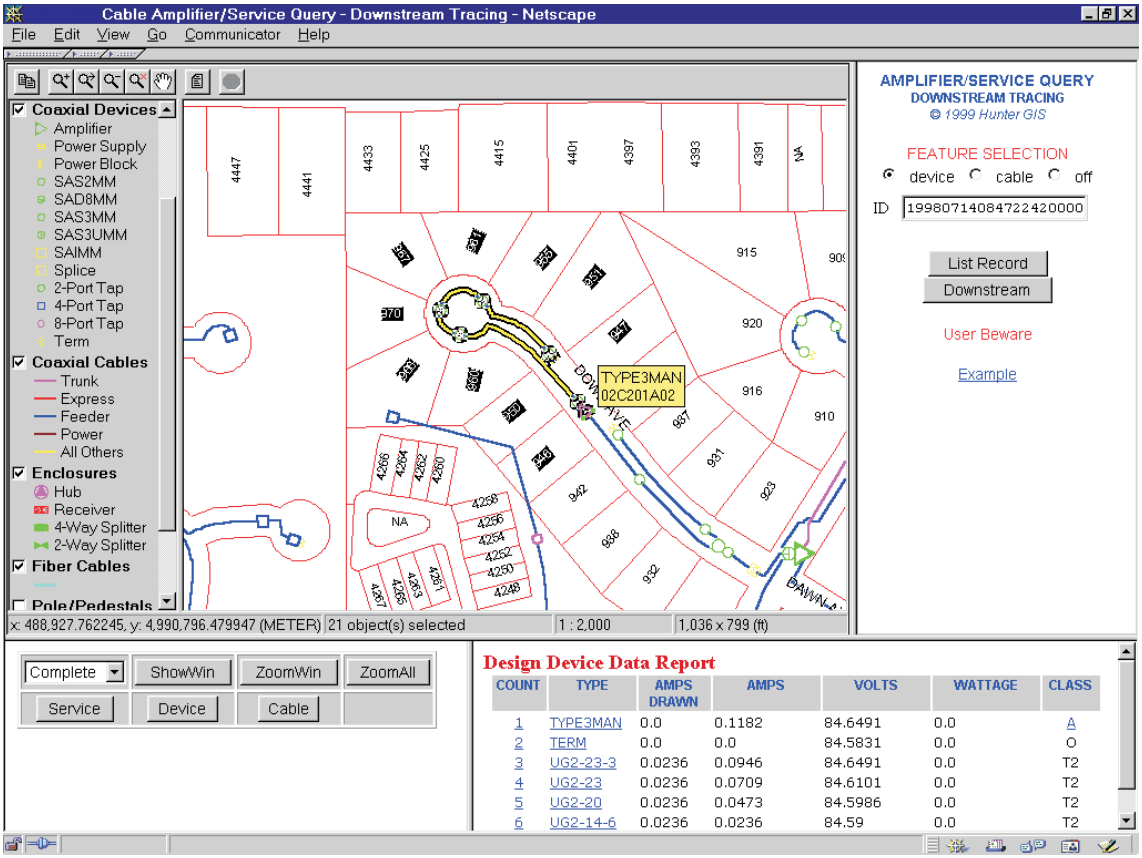

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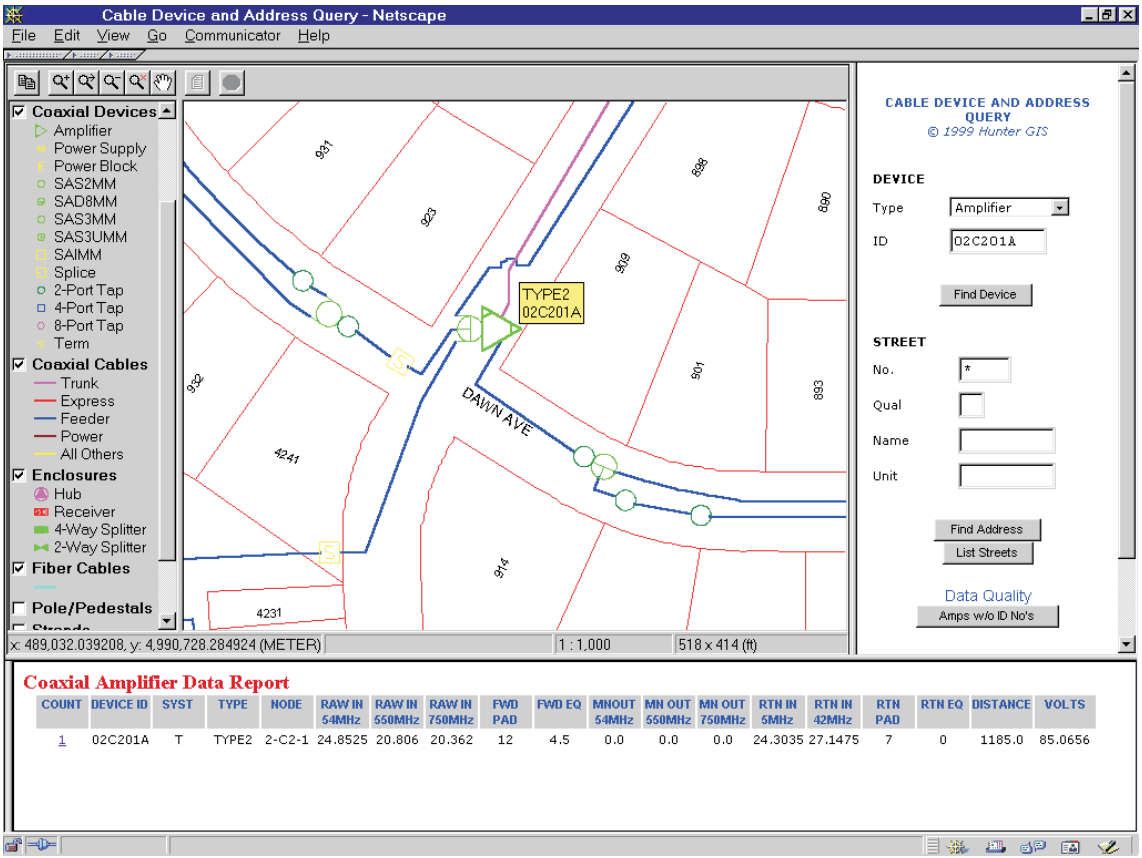

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1	02C201A	T	TYPE2	2-C2-1	24.8525	20.806	20.362	12	4.5	0.0	0.0	0.0	24.3035	27.1475	7	0	1185.0	85.0656

Interactive Map Clipping

- Interactive selection of features of interest to be clipped from the cable infrastructure graphic information (including point, line, polygon SDF and raster layer types) and associated linked database attribute records
- User can optionally include a Relational Query (SQL “Where Clause”) to more precisely define the output dataset
- Outputs database attribute records to an ASCII, comma-delimited (CSV) file format which is easily read into current database and spreadsheet software

Work Performance

- Planning period, date-based record retrieval for scheduled, backlog, completed and cancelled transaction history
- Integrated links to Customer Call Centre for complaints and work order generation for new services and maintenance
- Hyperlinked access from work orders to infrastructure information
- Integrated Load and Trouble Call Management
- ODBC/OLEDB links to Corporate Billing and other databases