

# Hybrid Fiber-Coax Plant Infrastructure

Cable Amplifier/Service Query - Downstream Tracing - Netscape

File Edit View Go Communicator Help

**AMPLIFIER/SERVICE QUERY  
DOWNSTREAM TRACING**  
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**FEATURE SELECTION**  
 device  cable  off

ID:

User Beware

[Example](#)

Lat: 45.070062, Lon: -93.139253 Coaxial Cables: 11 'Coaxial Cables' selected 1 : 4,000 632 x 487 (m)

Cables ShowWin ZoomWin ZoomAll  
 Service Device Cable

**Signal Leakage**  
 Fiber Loop  
 Coaxial Devices  
 Enclosures

**Coaxial Devices**  
 Amplifier  
 Power Supply  
 Power Block  
 SAS2MM  
 SAD8MM  
 SAS3MM  
 SAS3UMM  
 SA1MM  
 Splice  
 2-Port Tap  
 4-Port Tap  
 8-Port Tap  
 Term

**Coaxial Cables**  
 Trunk  
 Express  
 Feeder  
 Power  
 All Others

**Enclosures**  
 Hub  
 Receiver  
 4-Way Splitter  
 2-Way Splitter

**Street Address Data Report**

COUNT	ADDRESS	CITY	COUNTY	POSTAL CODE
1				
2				
3				
4				
5				
6				
7				

Cable Device and Address Query - Netscape

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**CABLE DEVICE AND ADDRESS  
QUERY**  
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**DEVICE**  
 Type:   
 ID:

**STREET**  
 No.:   
 Qual:   
 Name:   
 Unit:   
  
  
[Data Quality](#)

User Beware

Lat: 45.070090, Lon: -93.139224 Signal Leakage 1 : 1,852 293 x 245 (m)

**Design Device Data Report**

COUNT	TYPE	AMPS DRAWN	AMPS	VOLTS	WATTAGE	CLASS
1	TYPE2	0.0	3.3922	85.0656	0.0	A

# 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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AMPLIFIER/SERVICE QUERY  
DOWNSTREAM TRACING  
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FEATURE SELECTION  
 device  cable  off  
 ID: 19980714084722420000

List Record  
Downstream

User Beware  
[Example](#)

x: 488,927.762245, y: 4,990,796.479947 (METER) 21 object(s) selected 1: 2,000 1,036 x 799 (ft)

Complete ShowWin ZoomWin ZoomAll  
Service Device Cable

### Design Device Data Report

COUNT	TYPE	AMPS DRAWN	AMPS	VOLTS	WATTAGE	CLASS
1	TYPE3MAN	0.0	0.1182	84.6491	0.0	A
2	TERM	0.0	0.0	84.5831	0.0	O
3	UG2-23-3	0.0236	0.0946	84.6491	0.0	T2
4	UG2-23	0.0236	0.0709	84.6101	0.0	T2
5	UG2-20	0.0236	0.0473	84.5986	0.0	T2
6	UG2-14-6	0.0236	0.0236	84.59	0.0	T2

Cable Device and Address Query - Netscape

File Edit View Go Communicator Help

CABLE DEVICE AND ADDRESS QUERY  
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DEVICE  
 Type: Amplifier  
 ID: 02C201A  
 Find Device

STREET  
 No.: \*  
 Qual:  
 Name:  
 Unit:  
 Find Address  
 List Streets

Data Quality  
 Amps w/o ID No's

x: 489,032.039208, y: 4,990,728.284924 (METER) 1: 1,000 518 x 414 (ft)

### Coaxial Amplifier Data Report

COUNT	DEVICE ID	SYST	TYPE	NODE	RAW IN 54MHz	RAW IN 550MHz	RAW IN 750MHz	FWD PAD	FWD EQ	MN OUT 54MHz	MN OUT 550MHz	MN OUT 750MHz	RTH IN 5MHz	RTH IN 42MHz	RTH PAD	RTH EQ	DISTANCE	VOLTS
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

# Hybrid Fiber-Coax Plant Infrastructure

## ***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