Modularity Billing System (MBS):
Network Elements

CDG's Network Elements module is a network design and inventory management system for defining, managing, and reflecting your core network design and end-customer circuit representations. The system provides companies the ability to define, track, and efficiently manage every aspect of their inside and outside plant network, from wire centers, racks, and circuits to end points. Assets can also be assigned custom attributes and linked to associated subscriber account services and tickets.

KEY FEATURES

- Manage inside and outside plant information from core network, wire center, and rack representation to fiber, PBXs, pedestals, and CPE end points.

- Define custom attributes for circuits, elements (equipment/facilities), and wire centers to use for filtering and reporting.

- Use hierarchies to establish and track relationships between parent and child plant elements in your network.

Fig. 1 Network Elements Module - Circuit Search

- Identify where any plant element is being used within the system and track attributes for individual plant components.

- Access information about service connections, available services, plant capacity, and other operations for optimal asset allocation.

- View network version history for information about changes to circuits and other network elements.

- Increase efficiency and consistency in creating circuits and other plant assets with common attributes using circuit and equipment templates.

- Universal circuit and element search methods.

- Integrated with MBS Customer Care and Ticketing modules.

- Use Reporting to create exportable data for third party applications, including mapping systems, such as AutoCAD, StellarMap, Crescentlink, and Mapcom.
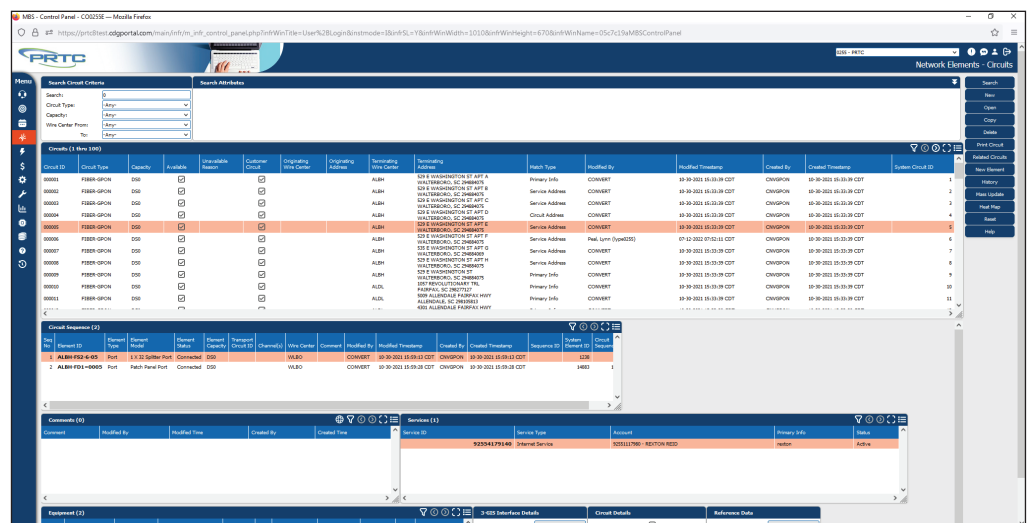
COMPLETE SCALABILITY

Manage your information on your terms. Information can be as macro as two end points of a customer premise circuit, or as detailed as each element in the physical signal path from the chassis in a particular rack at a wire center to a particular port on the ONT at a customer's premise. Whether your company prefers highly detailed facility records, including custom defined attributes, or more general information, the Network Elements module can be tailored to handle any level of detail that your business requires.

CIRCUIT AND EQUIPMENT TEMPLATES

The circuit and equipment templates allow you to establish items within the system that have common core values and simply add the variable data that is unique to the circuit or equipment. Templates can help save time and increase the integrity of common core data in the system.

COMMUNICATIONS DATA GROUP, INC.
2107 SOUTH NEIL STREET
CHAMPAIGN, IL 61820

888-234-4443
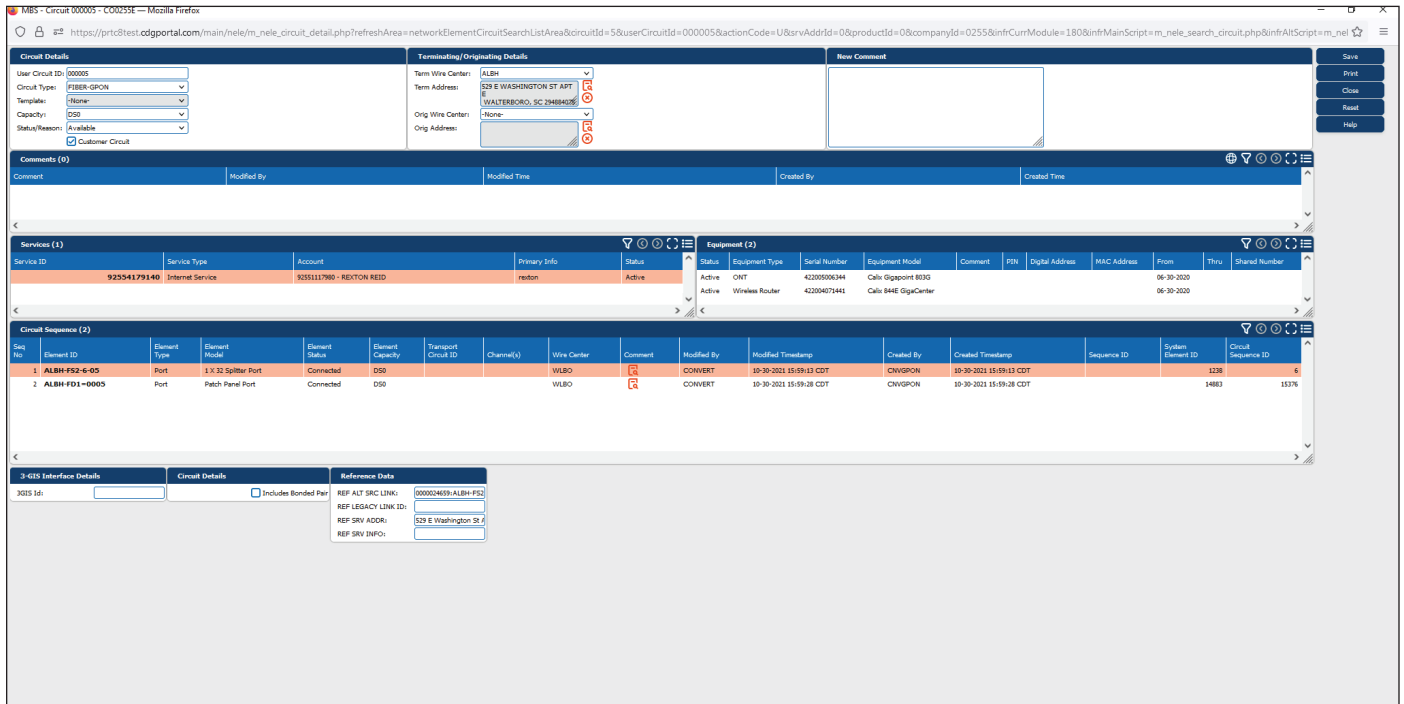INFO@CDG.WS
WWW.CDG.WS

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Fig. 2 Network Elements Module - Circuit Main View

CORE NETWORK FUNCTIONALITY

The Network Elements module utilizes core-network functionality to provide circuit hierarchy representation. Transport circuits, along with their payload (mux-ed child circuits) can be represented as related entities by establishing parent-child relationships. Any circuit that is searched for can show its relationship to other circuits and display its position in the hierarchy. In addition, channelized ports that carry transport circuits can reveal their individual channels and their associated child circuits that are riding those channels.

CUSTOMIZABLE CONFIGURATION

The Configuration application allows users to control the setup of their network plant wire centers/central offices, circuits, elements, and other equipment, and define the network elements and attributes that you want to record.

COMPREHENSIVE REPORTING AND ANALYTICS

Whether you need a basic circuit listing, a detailed report about specific facilities or routes, or an analytic tool, the integrated MBS Reporting module has you covered. With Reporting, you can easily create data queries to mine your plant data and generate output to a report or analytic Business Intelligence gadget.

THIRD-PARTY INTEGRATIONS

Use Reporting to define data extracts for use by third party applications, including mapping systems, such as AutoCAD. CDG also continually explores and develops integrations with other applications, including 2-way APIs.

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CHAMPAIGN, IL 61820

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WWW.CDG.WS

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