

# Use Dark Coax to Easily Deliver Triple Play Services

# COMTREND

## CASE STUDY

# SOGETEL

### AT-A-GLANCE



#### Customer

Sogetel



#### Location

Québec, Canada



#### Industry

Service Provider

### Challenge

- Sogetel needed a better way to deliver triple-play-services where installing CAT5 was not possible
- The new solution needed to be able to have bigger MAC Address Table limits and reliable power supplies

### Solution

- Comtrend's GCA-6000 Ethernet over Coax Adapter

#### Ethernet over Coax Adapter GCA-6000

(Requires at least two to create a connection)

### BACKGROUND

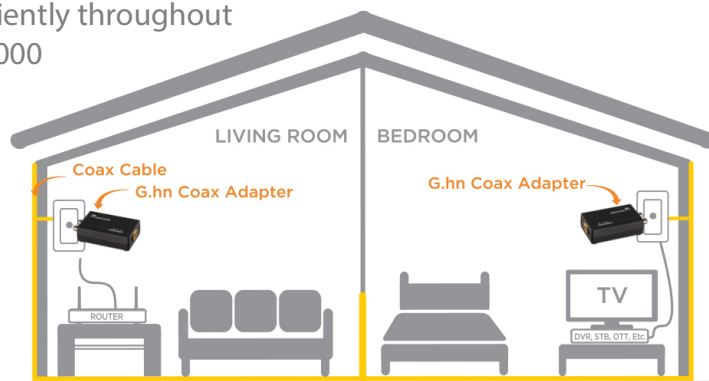
Sogetel offers telecommunications services to residential and business customers. Founded in 1892, Sogetel is one of the independent companies with the largest fiber optic networks in Quebec.

### CHALLENGE | Delivering Triple-Play-Services When CAT5 is Not Possible

Sogetel was seeking a better way to deliver triple play services in homes where installing new CAT5 cabling was not possible. When deploying triple-play - services in fiber to the home (FTTH) installs, the coaxial cable was left unused. In their previous solution, they used these 'dark' coaxial cables to deliver an Ethernet connection to Set-Top-Boxes with a MoCA Adapter. However, Sogetel encountered issues with the MoCA Adapters, including Mac Address table limitations and unreliable power supplies.

### SOLUTION | Comtrend's G.hn Ethernet over Coax Adapter

Sogetel selected Comtrend's GCA-6000 G.hn Ethernet over Coax Adapter as the better way to deliver video to FTTH installs. The available coaxial cable delivers Ethernet connectivity conveniently throughout the home. Comtrend's GCA-6000 utilizes the G.hn standard which achieves better real-world performance through the use of new technologies such as FEC, NDIM, TDMA, and more.



“

*“Comtrend’s GCA-6000 Ethernet over Coax Adapters have been a tremendous help when it comes to deploying video services in fiber to the home installs. More specifically, it’s been helpful in installs where we cannot run CAT5 Ethernet. The GCA-6000 adapters have been very reliable, easy to setup, and reduced our support issues.”*

Dominic Germain  
Internet Service Director  
**Sogetel**

”

### BENEFITS

- **Works in Collaboration with FTTH Deployments:** with the growth of fiber deployments, the coaxial line is now more available than ever to provide fast, low interference Internet connectivity.
- **Enhances the Video Streaming Experience via G.hn:** Forward Error Correction (FEC) technology is designed to improve video quality and minimize video lag.
- **Turns Coax Cables into an Ultra-Fast Network:** the GCA-6000 can connect up to 32 devices within a G.hn Coax Cable network.

Internet Connectivity Type	Low Installation Cost/Effort	High Performance	Low Interference Susceptibility
Using Existing Coaxial Cable	YES	YES	YES
Using New Ethernet Cable (RJ-45)	NO	YES	YES
Using Existing Powerline	YES	MODERATE	MODERATE
WiFi	YES	NO	NO

### UNIT DEPLOYED



**G.hn Ethernet over Coax Adapter**  
GCA-6000

Quantity:  
~2 per Residence  
Utilized in over 500 Homes

It takes two adapters to create a connection.

- 1200Mbps Phy Rate
- Supports a maximum of 32 devices in a G.hn Coax Network
- One Button Security Set-Up

### CONCLUSION

Sogetel now uses Comtrend’s GCA-6000 in over 500 homes for improved video performance.

- **Easier & Less Expensive Installations:** Sogetel can now use the coaxial lines to bring Internet connectivity anywhere there is a coax outlet.
- **Fast, Secure Network:** Sogetel now provides a network connection that is both higher performing and more reliable.
- **Higher Mac Address Table Limit:** the GCA-6000 has up to 32 Mac Addresses resulting in less support issues and troubleshooting.