

# **Custom Network Solutions**

**Save Money, Making Money**



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## Save Money, Making Money

Network operators feel intense pressure to drive revenue while at the same time reduce capital expenditures. A custom network solution to increase the bandwidth needed provides them with both.



In the last few years operators have dedicated extensive amounts of time and effort to deliver experience-based, multi-media communication services. Services such as HD, VOD and High Speed data deployments top the list. At the same time, driving down operating and capital costs remains the No. 1 initiative. Getting the best of both worlds is ideal, and receiving an economical upgrade to your network could be just your ticket.

By preserving as much of the existing infrastructure as possible, an economical upgrade can save network operators up to 50 percent of the traditional network upgrade costs and drive the revenue needed to continue providing value-added services to customers.

# Drive Revenue

Economical upgrades create a low-cost avenue for providing the value-added services to customers that drive revenue your current network is not capable of delivering.

Perhaps you are considering adding 20 more HD channels or changing your HSD from DOCSIS 1.0 or 2.0 to DOCSIS 3.0, but all your bandwidth is used up. Your system is at 450, 550 MHz and or possibly 750 MHz. In order to get what you need, the existing electronics can be upgraded to deliver an additional 100 or 250 MHz: saving you money by reusing.

In this example, an economical upgrade saved time and money as the existing amplifier housings were reused and the existing electronics were upgraded instead of re-splicing and replacing all electronics.

Custom solution engineering is the only way these upgrades can be derived.



# Custom Solution Engineering

This creative engineering service identifies your optimum solution- one that satisfies your three highest priorities: performance, cost and future upgrade flexibility.

The custom solution approach to network engineering begins as your objectives, goals and concerns are listened to and are carefully documented.

From here, engineers do a complete analysis of your network to determine its opportunities and constraints. Then, a customized plan which capitalizes on the opportunities is devised.



# Site Survey and Evaluation

Site survey and evaluation is the next step to determine an economical upgrade for your network. This step is performed to determine the current status of your network as well as how much more bandwidth it can handle. All the information gathered in this step will be used to determine upgrade options and costs.

## **Evaluate the Existing Headend**

The existing equipment is checked. The forward and returning combining networks are also evaluated to determine bandwidth.



# Site Survey and Evaluation

## **Evaluate the Existing Coaxial Cable**

The coaxial cable within your plant is also checked both physically and for performance. Forward and reverse sweep tests are performed. A TDR test is also ran.

## **Evaluate Existing Network Electronics**

In addition to running a sweep test for the existing coaxial cable, a sweep test is done to determine the performance and capabilities of the existing electronics. The electronics within your plant are also visually inspected.

## **Verify Plant Miles**

High-view maps or maps you already have are used to verify the number of plant miles needing the economical upgrade.



# Integrating into a Economical Upgrade Plan

After the site survey and evaluation is complete, the information gathered is used by network engineers to offer several bandwidth options to fit your needs and budget. A review of the options will also include:

## **Budgetary Cost Estimates**

The cost estimates for the various economical upgrades will allow you to compare and contrast your options from a financial standpoint. Estimates include mapping and design work, labor and materials and generally are within 5 to 10 percent of the actual cost.

## **Technical Performance Specifications**

For the various options, post-upgrade bandwidth specifications will be detailed.



# Economical Upgrades

More network operators choose CCI because of the high value they receive from the firm's exclusive Custom Solution Engineering approach.

This creative engineering service identifies your optimum solution—one that satisfies your three highest priorities: performance, cost and future upgrade flexibility.

CCI is one of the only firms to offer a truly integrated end-to-end service solution including engineering, construction, and maintenance/support.

CCI has been providing these services for more than 50 years.

Whether your project is small and simple, or large and complex, CCI has the expertise and experience to consistently deliver on your highest priorities.



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