

To successfully launch DOCSIS 3.0 and other advanced services, network certification is required. This eBook provides the 4 steps you can take to make sure your network is running at optimal performance.

HOW TO OPTIMIZE YOUR NETWORK'S PERFORMANCE

WHAT'S INSIDE?

4 Steps to Network Certification

Forward and Reverse Sweep

Ingress/Leakage Mitigation

Proof and Performance

Documenting

FORWARD AND REVERSE SWEEP

Get the Bugs out; No Fly Swatter Required

Environmental conditions and aging can make your network not perform to how it was originally built. A simple forward and reverse sweep will provide the information needed to remedy these problems. Sweeping the network will check to make sure it is actually working at the original technical specifications. Sweeping the forward and return path will find the bad cables, connectors or electronics that are causing poor performance and generating trouble calls when launching new services, such as DOCSIS 3.0 .

Once the problems are captured, cables can be repaired, connectors tightened and electronics optimized.

INGRESS MITIGATION/LEAKAGE

Clear the Noise

Ingress, noise within your plant, organically finds its way into your system by way of cracked cable or within the home where RF is uncontrolled. From here, ingress travels the reverse path with cable modem data from the home to the headend. If ingress lines up with cable modem data, it can destroy the data completely and cable modems won't work.

Determining the location of the ingress and mitigating it is a time-consuming and labor-intensive job that your in-house technicians may be too busy to handle.

So how do you take the ingress out of the plant? To locate where the ingress is infiltrating, each node needs thorough examination. The information gathered here will point to the noise-receiving area. Cables or drop cables may need to be repaired. If the noise is coming from the home, filters could be added to the plant to block the noise traveling to the headend.

PROOF AND PERFORMANCE

Check and then Recheck

Once the forward and reverse sweep is done, ingress has been mitigated and leaks have been repaired, proof and performance testing is run.

This final test determines if the work done in the field made the system better and that it is now performing at the specifications you set up.

DOCUMENTATION

Capture Work for the Future

After all work is completed and a proof and performance test is passed, the various information gained throughout the optimization process should be collected in an electronic format. This sortable database makes it easier for future trouble shooting and provides you with thorough evidence that all documents are truthful and that your plant is running as it should be.

OPTIMIZING NETWORKS

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.



105 Kent Street
Iron Mountain, MI 49801

800.338.9299

www.ccisystems.com