

# Hybrid Fiber Coax Services Global Services

## SERVICE FEATURES:

- Program Management
- HFC Assessment and Recommendations
- HFC Auditing, Design, Engineering
- HFC Playbooks
- Optical equipment installation, setup, migration

## SERVICE BENEFITS:

- **Stay focused on Business as Usual**
- **Leverage ARRIS's Solid Experience –**
  - 4,800,000+ kilometers of HFC plant designed
  - 1,000,000+ hours of staff augmentation
- **Quality–** ISO 9001, TL9000 Registration Certificates



## SERVICE OVERVIEW:

Service providers increasingly use Hybrid Fiber Coax systems in new and upgraded networks because of the higher bandwidth and better reliability of fiber over coax, because the higher bandwidth supports reverse path communication for interactive user data flow, and because fiber is more efficient for interconnecting adjacent companies or sites.

Installing or upgrading these networks takes your personnel away from their core purpose – operating a state-of-the-art data center or network. With more than 4.8 million kilometers of HFC plants designed, ARRIS Global Services has the experience and expertise to provide HFC network design and consulting services for service providers. We can provide all facets of inside and outside plant documentation, design, management, engineering, and deployment services as well as business analysis and assessments that can help you achieve your financial, technical, and strategic goals.

### MULTI-PHASED APPROACH: Program Management

Whether you're designing a new HFC network or upgrading your existing system, it is important to use a structured development process. ARRIS's Program Management Office can assist with developing and executing a plan that ensures service continuity and minimizes costs, and uses a five-step process: Analyze/Audit, Design, Deploy, Test, and Document/Sign Off.

### AVAILABLE HFC SERVICES

ARRIS Global Services offers a range of services that can be provided a la carte or as part of a complete program.

### HFC PROJECT MANAGEMENT

Managing complex coordination of the whole program: scope, schedule, and resources, ensuring planning, integration, tracking, reporting, and coordination.

### HFC ASSESSMENT SERVICE

Remote and on-site evaluation of the existing HFC system with recommendations:

- HFC Data Collection including inside plant and outside plant; review design, performance statistics, monitoring tools and KPIs
- Site Surveys of selected headends and hubs, and onsite measurement data with customer engineer
- Site Survey & data measurements of a sampling of nodes, amplifiers, line extenders (RF, digital, laser, forward/return path)
- Assessment Report Generation

### HFC PLAYBOOKS

Playbook can be designed and tailored per system and provide detailed set-up guides for active devices, ensuring consistency across all markets.

### HFC INSIDE PLANT DESIGN AND DOCUMENTATION

ARRIS can architect solutions to maximize density and reduce power and cooling needs, culminating in:

- Headend/Hub building as-built documentation
- CAD via Visio, spatialINFO or BentleyCOMM
- Schematics

### HFC NETWORK FIELD SURVEY/AUDIT

Let ARRIS perform your HFC Network Field Survey and Audit, which includes:

- Field Walkout, existing RF plant and fiber as-built verification
- Surveys and as-builts for Residential, Commercial Coax, MDU, and Metro Ethernet Plant and Fiber Routes

### HFC NETWORK PLANT DESIGN AND DOCUMENTATION

HFC Plant Design, Engineering and Documentation:

- ARRIS can perform HFC design or redesign to support new services, supporting residential, commercial coax, Wi-Fi, and metro Ethernet designs.
- Facility documentation covers floor plans, rack elevations, schematics etc.
- GIS Documentation is also completed.

Fiber Design and GIS Documentation:

- Fiber route design includes posting, node segmentation and splits, and splicing
- Fiber routes are documented with a GIS application or CAD environment (AutoCAD, spatialINFO & BentleyCOMM)
- Loss budget calculations and optical laser/splitter design are also supported

### HFC DEPLOYMENT

ARRIS can provide installation, setup and migration services for ARRIS Converged Headend Platform (CHP) optical equipment. Services include:

- Project Management if desired
- CHP Chassis installation, fiber jumper installation to/from optical coupler bay, installation of bay and optical modules, commissioning, RF cabling from optical modules to customer-installed broadcast splitting and combining network, and testing
- CHP Migration Window support: pre- and post-snapshot information, monitor RF and optical levels, balance system
- Installation Related Materials can be quoted and provided if desired

### Ordering Information

Contact your ARRIS Sales Representative or channel representative. A detailed scope of work will be developed after consultation.