

Remote PHY Deployment Services

ARRIS Global Services

SERVICE BENEFITS:

- Leverage ARRIS expertise for seamless upgrades
- Assurance of highest quality
- Timely management of resources and materials
- Focus staff on business as usual
- Manage execution across multiple sites to mitigate risks and ensure success



SERVICE OVERVIEW:

As the newest step in the continuing evolution towards an all-digital headend, Distributed Access Architecture (DAA) extends the digital portion of the headend/hub domain out to the fiber optic node and places the digital/RF interface at the optical/coax boundary. This strategic move offers many benefits, including increased bandwidth capacity, improved fiber efficiencies (wavelengths and distance), simplified plant operations with digital optics, decreased loads on facility space and power systems, and directional alignment with FTTx systems of the future.

Implementing DAA involves installing Remote PHY Devices (RPD's) in ARRIS form fitting nodes, supported by a Gen 2 E6000 chassis acting as an electronic Core (eCore.) Managing this deployment across many headends and dozens or hundreds of nodes is a time-consuming, potentially service-affecting activity that must be approached with careful planning and execution.

With over 20 years of experience, ARRIS Global Services can help cable operators plan, design, implement and operate the changes required in their network to achieve a flexible, sustainable network. ARRIS's skilled Project Managers, Deployment Engineers and Technicians can manage and execute the transition to DAA, allowing cable operator personnel to stay focused on business as usual.

Three Components of ARRIS Remote PHY Deployment Services

CCAP CORE Services

CCAP Core Services include installation of a new eCore chassis or upgrade of an existing chassis to support a Remote PHY architecture in addition to software upgrades and creation of new configuration elements. ARRIS can also perform systems level testing to verify readiness and can de-commission the RF combining network.

Headend Network Services

ARRIS can assist operators with the re-design of headend network elements through Site Surveys, Engineering and Design Packages. ARRIS can design, install, configure and turn-up/test the Distributed Access Aggregation Switch Network including Spine and Leaf switches as well as required 1588 Timing Server and integrated video distribution systems.

Outside Plant Services

Outside plant services include installation and turn-up of Remote PHY nodes or installation of Remote PHY Devices (RPD) into an existing form fitting node. First Modem Provisioning (FMP) at node as well as migration support are also available.

Inside Plant Services	Description
Site Audit and Documentation	Review and updating of existing site-specific physical data required for the design and integration of the ARRIS E6000™ eCore integration.
DAAS Fanout + Mux /DeMux Wiring Plan	Create a DAAS Fanout and Mux/DeMux Wiring Plan based on desired number of deployed RPDs and bandwidth requirements. Will show the network interconnections between the Spine and Leaf switches and between the Leaf switches and Optical Mux/DeMux devices.
Market Templates / Golden Configuration / Customer Guideline	Create golden configuration to be applied to the eCore based on existing CMTS and other customer supplied data. Contains information such as SNMP, TOD, NTP and provisioning servers, user accounts, access control lists, and service classifiers.
Site Specific eCore Configuration	Create site specific configurations on a per eCore basis utilizing information from the node combining plan, other customer supplied data and/or existing CMTS configuration data.
eCore Installation/ Upgrade Service	The eCore Installation/Upgrade Services cover the physical actions of rack/stack a new chassis or HW/SW upgrade to existing chassis.
DAAS Network Install and Mux Cabling	Installation and cabling of Spine and Leaf switches and optical Mux/DeMux to support eCore functionality.
eCore Commissioning + Advanced SG testing	Brings the powered up eCore to a minimal state of operational readiness, and ready for a site specific configuration to be applied.
RPHY Device/Node Installation Services	Installation of a Remote PHY Device (RPD) into an existing deployed node or the installation of a form fitting node with the RPD already installed.
Maintenance Window Migration Services	Assist with the integration of the new eCore and DAAS network with optional onsite/remote eCore Engineer.
Post Migration – Decommissioning	Logical and physical decommissioning including de-racking, removal, packaging, inventory, testing, reporting, salvage and/or redeployment of equipment + cabling.