

Improve Operations and Reduce Real Estate Needs

Inside Plant Design Services

FEATURES:

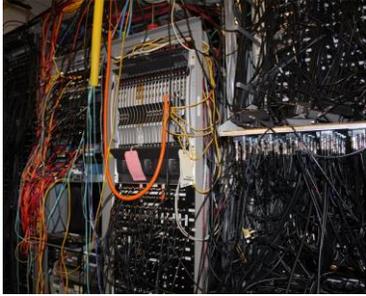
- New build or rebuild designs
- Streamlined operations
- Space, power and cooling efficiencies
- Expanded service capabilities
- Maximize use of existing assets
- Detailed documentation for construction and implementation
- Full deployment and integration services



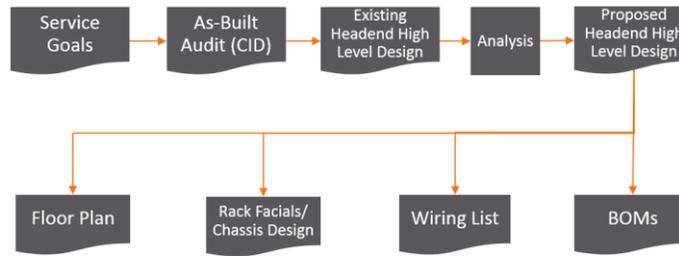
SERVICE OVERVIEW:

Most systems tend towards entropy. Headends, hubs, central offices and data centers are no exception. Over time new equipment is introduced by new personnel (with different standards) and often in a hurry. The result is facilities that tend towards disorganization – making them difficult (and costly) to service – and inefficiency in the use of space and other expensive resources like power and cooling. Long cable runs are inevitable which results in degraded signals and more active devices to be maintained.

With over 5,000 inside plant designs executed, ARRIS has the expertise, personnel, tools and processes to help you design or redesign inside plant facilities to maximize efficiency and return on investment in capital equipment.



Before



After

Typical Use Cases

Equipment added over time without careful planning. Results in improper combining and RF budget issues.

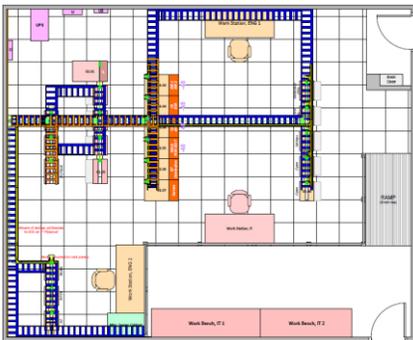
An ISP Audit discovers all device types and signal flows. From that ARRIS delivers a comprehensive as-built high-level design (HLD) describing where and why the problems are occurring and a new HLD to alleviate the MER/BER/RF budget issues.

Competition and new service deployment drives the need for redesign when space and power are limited.

ARRIS creates a project plan to methodically upgrade/replace/reuse equipment in a logical, sequential fashion so that space is freed up in stages until the entire facility is upgraded.

Designing for the future.

ARRIS develops a plan that allows future capacity upgrades with minimal disruption to existing operations and infrastructure.



Floor Plan Design

Design Process

- Consulting and agreement on service goals

- As-built creates a detailed inventory and schematic of signal flow from source to optics including every cable, port and device from end to end.

- Analysis of existing conditions leads to a new High Level Design which optimizes the RF link budget, identifies the signal level at every port and allows future signal check and confirmation at any point in the headend.

- Design of floor plan layout, rack facials/chassis and wiring list

- Bill of Materials for new equipment required to execute the new design.

BROADCAST RACK	RACK 1	RACK 2	RACK 3	RACK 4	RACK 5	RACK 6	RACK 7
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
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6	6	6	6	6	6	6	6
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Inside Plant Rack Facials

CUSTOMER CARE Contact your ARRIS Account Manager for product information and/or email ARRISDesignServices@arris.com

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