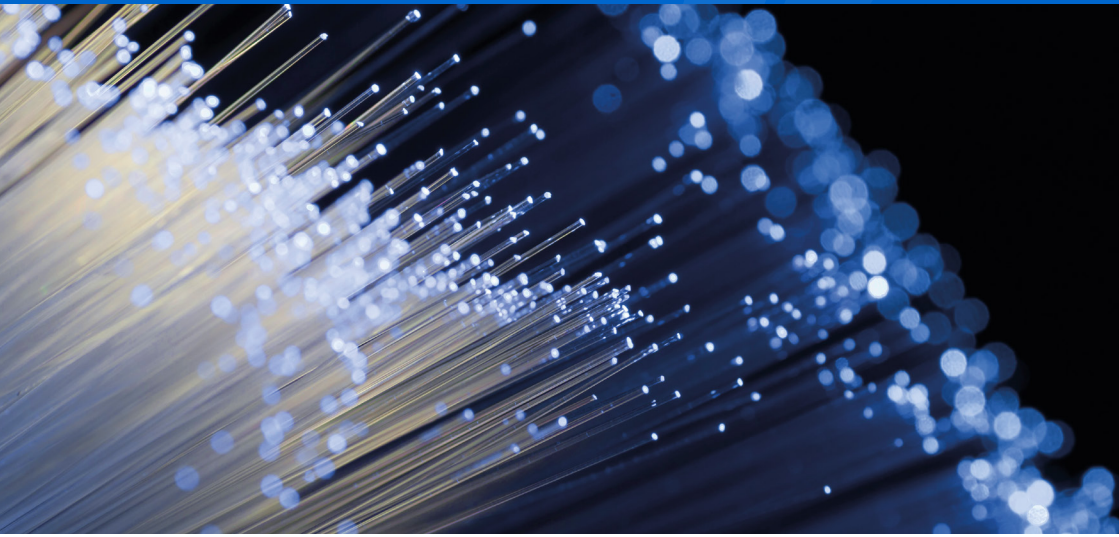


# Case Study: AllPoints Fibre Networks

How we're simplifying operations for UK ISPs  
with Auto Configuration-as-a-Service



## Executive summary

AllPoints Fibre Networks (APFN) is transforming how wholesale broadband services are delivered in the UK. Working with **AVSystem**, APFN has developed a first of its kind, **multi-tenant ACS-as-a-Service model** that allows Internet Service Providers (ISPs) and Managed Service Providers (MSPs) to manage Customer Premises Equipment (CPE) at scale without needing to run their own infrastructure.

Built on the **AVSystem Cloud ACS** and integrated with APFN's **aquila** platform, this collaboration gives service providers a smarter, more efficient way to activate, manage and monitor CPE devices. It's a key milestone in APFN's mission to reduce operational costs, simplify delivery, and enable national reach for every partner.

## Innovation opportunity

ISPs and MSPs face growing pressure to scale broadband services quickly while keeping operational costs low. Traditionally, that's meant hosting and maintaining their own Layer 3 systems such as ACS, RADIUS, and diagnostics platforms, which can be expensive and resource-heavy. APFN saw an opportunity to change this model entirely by delivering those capabilities as managed, shared services through the **aquila** wholesale platform.

## Solution

APFN's Innovation Team worked with AVSystem to adapt Cloud ACS for multi-tenancy, a first in the UK wholesale fibre market. This architecture allows multiple service providers to securely share one ACS platform while maintaining their own configuration, branding, and control. Delivered as a service within the **aquila** platform, **ACS-as-a-Service** enables ISPs to automate CPE provisioning, updates, and diagnostics through a single, unified interface.

Partnering with AVSystem made this vision possible, allowing APFN to develop a **multi-tenant ACS platform** that gives each service provider secure access and visibility without the overhead of running their own servers.

For established ISPs, this means they can expand nationally without scaling their own infrastructure. For new entrants, it offers an "ISP-in-a-box" model that removes technical barriers to market entry and accelerates time to revenue.



## How it works



### 1. Sell and order

Partners quote and order full-fibre services through aquila's unified API.



### 2. Activate and configure

Once an order is confirmed, APFN's ACS-as-a-Service automatically provisions the CPE using templates defined by the service provider.



### 3. Monitor and support

Real-time telemetry enables proactive monitoring, remote troubleshooting, and firmware management, all without manual intervention.



### 4. End-to-end experience

This creates a smooth, end-to-end experience from network access to customer activation, giving partners full visibility and control at every step.

## Impact for partners

- ✓ **Lower operational costs**  
No need to host or maintain local ACS or RADIUS servers.
- ✓ **Faster scaling**  
Zero-touch provisioning shortens lead-to-live times.
- ✓ **Simpler operations**  
A single shared system manages multiple ISPs securely.
- ✓ **Better customer experience**  
Proactive diagnostics improve reliability and reduce truck rolls.
- ✓ **Future-ready foundation**  
Supports both TR-069 and TR-369 (USP) standards for next-generation device management.

## Looking ahead

The collaboration with AVSystem is a cornerstone in APFN's wider strategy to deliver more network functions as managed services. The goal is to reduce complexity for partners and help them grow faster with greater visibility and control.

By combining AVSystem's proven ACS technology with APFN's scalable aquila platform, the partnership redefines what's possible in wholesale broadband delivery and sets a new benchmark for simplicity, performance and innovation.

# Expand your portfolio with a top-class ACS. Become our partner!

## Available partner tracks:

### CPE Vendor

- Showcase devices in a WYSIWYG manner
- Perform device integration and test the platform
- Facilitate device management for your customers
- Maximize device performance

### Software integrator

- Broaden your offer with our entire portfolio
- Get a trusted, industry-proven partner
- Get new leads, provided by AVSystem
- Offer your customers vendor-agnostic solutions for all access technologies

### CPE Reseller

- Broaden your portfolio
- Provide end-to-end solutions for your customers
- Get a presentation platform for your CPEs' capabilities
- Gain a monthly revenue stream & constant contact with your customers

### Fiber Network Wholesaler

- ISP enablement platform – a complete portfolio of products to attract ISPs to become your partner
- Flexible cooperation models
- Interoperability testing of CPEs, to provide ISPs with curated hardware offer



## AVSystem & Cloud ACS

AVSystem provides device and service management solutions for ISPs and CSPs of all sizes. Cloud ACS is a SaaS platform supporting TR-069 (CWMP) and TR-369 (USP) for zero-touch provisioning, configuration, diagnostics, and real-time telemetry, chosen by leading and fast-growing telecom operators worldwide for years.



## APFN & aquila

APFN is a UK-based wholesale fibre enabler simplifying access to the country's largest full-fibre networks. Aquila platform delivers automation, transparency, and scale - combining quoting, ordering, and delivery into a single frictionless experience.

[Explore our ACS](#)

[Learn more about APFN](#)

[avsystem.com](https://avsystem.com)