

# Broadcast Solutions overview

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# Key Infrastructure Challenges Facing Broadcast Industry

At HUBER+SUHNER we pride ourselves in delivering customizable solutions that exceed the needs of our customers. We are working with many of the world's largest broadcast companies, and together we develop solutions to support one of the most popular entertainment industry.

The broadcast and media sector continues to place increasingly larger demands on the network infrastructure manufacturers, particularly as high quality digital media content becomes very much the norm. Flexibility is critical to broadcasters. Total reliability is crucial for content on demand and specially for live events. Delays or downtime cannot be tolerated.

To handle the subscriber management, the thriving streaming and download business, satellite and terrestrial broadcast as well as other media organizations' needs, it is required a wide range of connectivity options, to cover from the high density equipment rooms to the outdoor and harsh environments. Safe connections wired and wireless ensure the ability to securely store, archive and then offer instant access to vast amounts of content from anywhere in the world, at any time of day for large numbers of viewers.

The trend of larger digital files will only continue as video quality moves from standard HD to 4K and 8K ultra HD and beyond. This creates unprecedented need of upgradeable high speed networks that can be quickly expanded as demand increases. These networks must be ready to transfer massive amounts of data around the planet now, as well as when new technologies arise and popularize.

HUBER+SUHNER supports the Broadcast industry with high quality solutions for indoor and outdoor applications, whether the need is for optical systems or for radio frequency technology. Always having the best connections in mind.

# Applications in the Broadcast market

In the past years, HUBER+SUHNER has been supplying fiber solutions to broadcast companies in the Americas and in Europe.

HUBER+SUHNER engages with the customer and the whole ecosystem of partners to achieve the best understanding of project requirements.

HUBER+SUHNER provides technical assistance and trainings to partners and customers, making all parts comfortable and familiar with the offered system.

HUBER+SUHNER is motivated by seeing customers overcoming challenges with the best suitable solutions from the Huber+Suhner toolbox..

## **4K and beyond connectivity**

Future-proof, format-independent connectivity for 4K and beyond

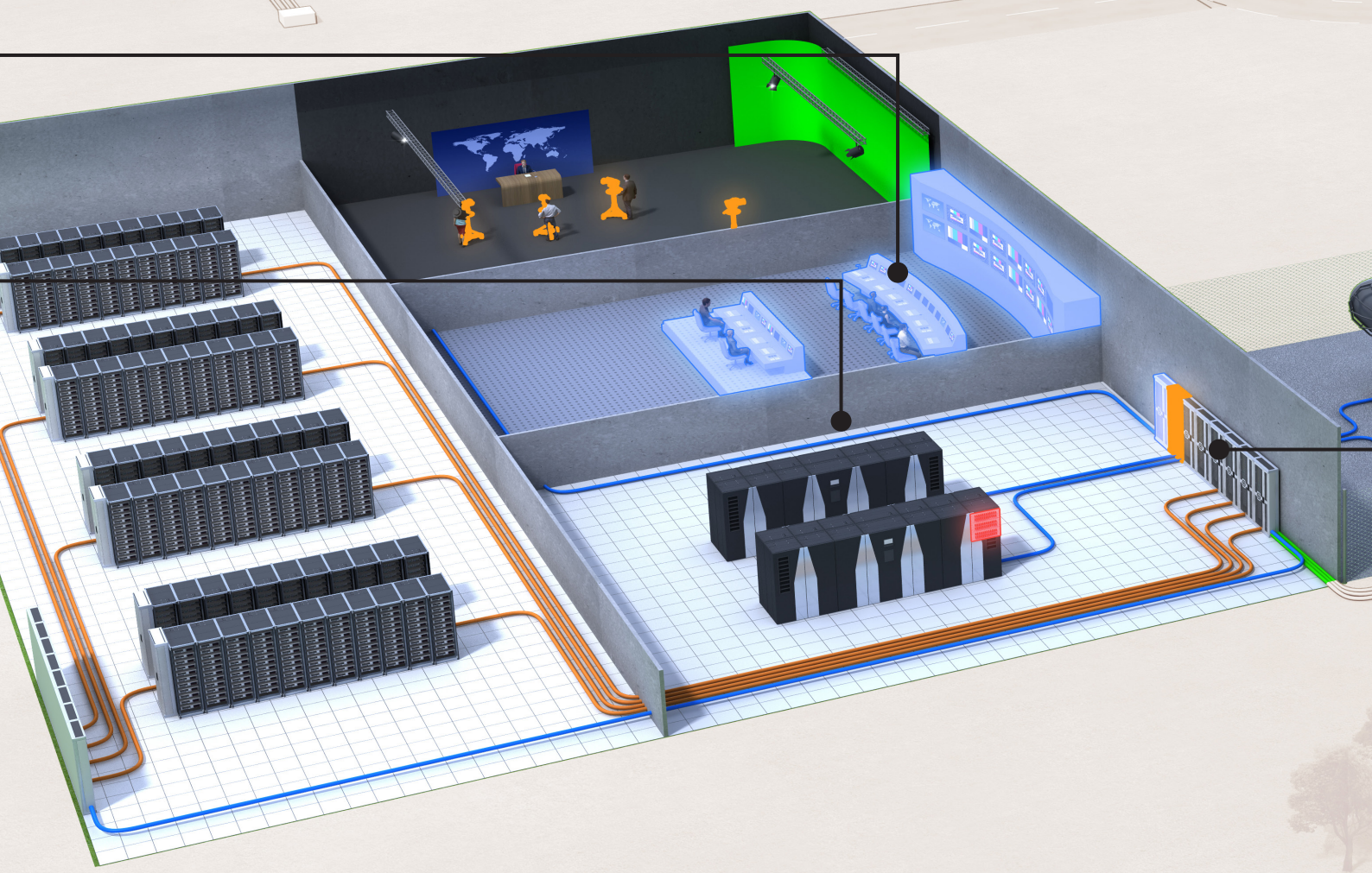
## **Video routing**

Quality HD video routing from multiple camera positions to downtown studio

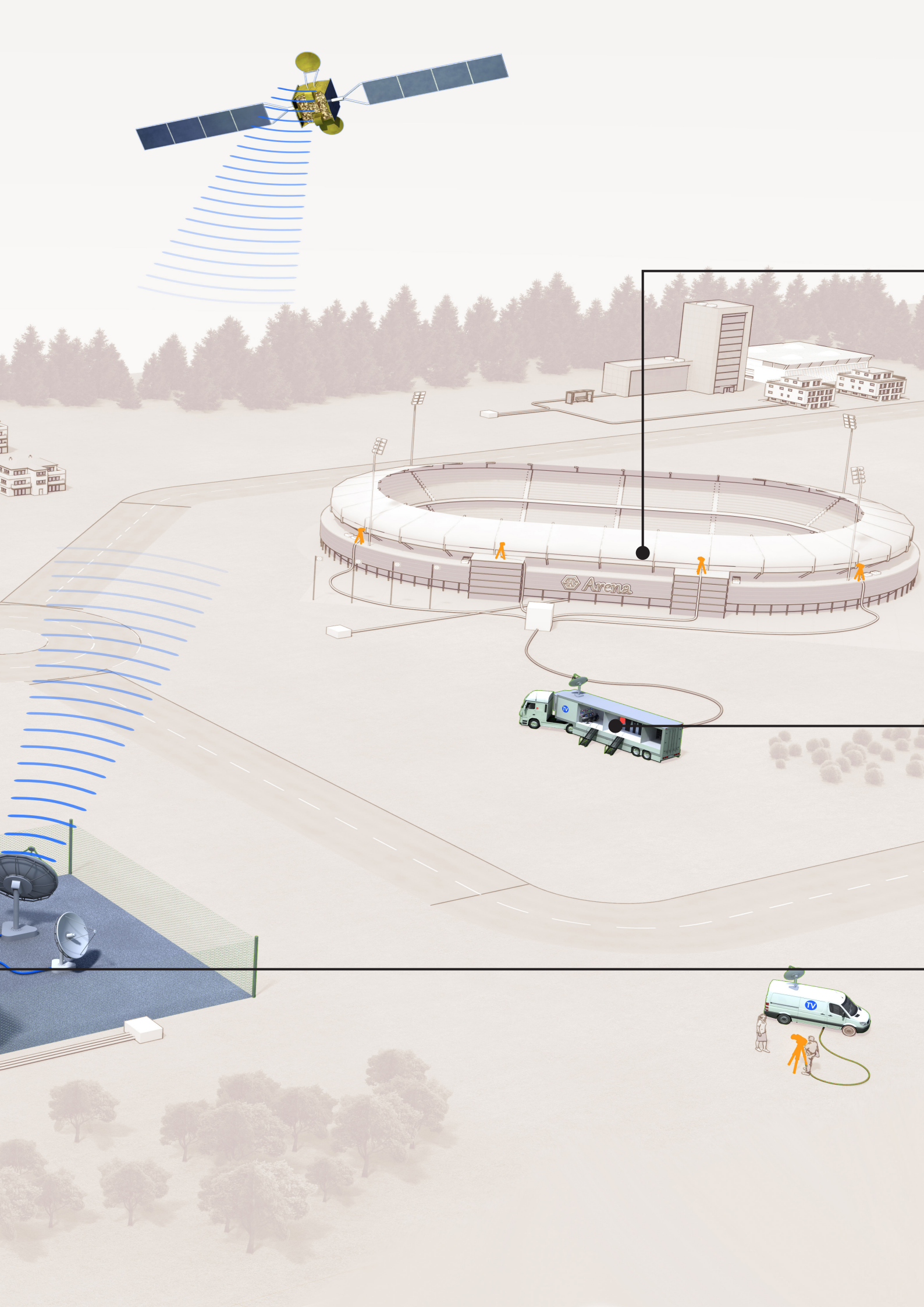
## **Up- and downstream**

WDM optics combines upstream control and downstream video on single fibre









# Supported by HUBER+SUHNER

## Outside broadcasting

Modern outside broadcasts now use specially designed OB vehicles, many of which are now built based around IP technology rather than relying on coaxial cables

Indoor or outdoor, HUBER+SUHNER optical solutions are always in place.

With a broad capability of technology delivery, based on fiber optics, radiofrequency or low frequency, HUBER+SUHNER is the one stop shop for broadcasters looking for optical fiber based future-proof solutions.

From components to the most advanced optical switches, HUBER+SUHNER is your partner to entertain the world.

## OB Studio

Trackside receivers relay in-car video & telemetry as RF-on-fibre to OB studio

## Optical cross-connects

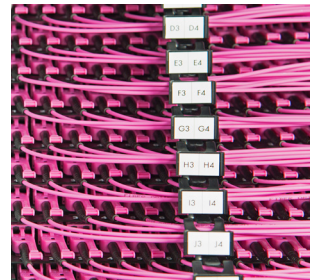
Optical cross-connects provide provisioning, protection and Rx power levelling

# HUBER+SUHNER system solutions

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## Fiber management systems

HUBER+SUHNER fiber management solutions bring flexibility and convenience to control rooms, processing rooms and data centers. Modular and capable of high fiber densities, the solutions provide one of the best connectivity experiences in the market, being approved by various customers around the globe.



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## Antennas and Radio Frequency solutions

Based on well-founded knowledge and many years of experience, HUBER+SUHNER develops and produces radio frequency and microwave products for the global market. The product portfolio is extremely comprehensive and meets the different requirements of data transmission components in the communication, industrial and transport sectors. HUBER+SUHNER develops and produces an extensive portfolio of directional and omni-directional antennas for a wide range of indoor and outdoor wireless connections.



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## Harsh environment connectivity

HUBER+SUHNER has a proven track-record in temporarily set-up fiber optical communication networks, e.g. for the broadcast industry, in disaster recovery and industrial applications. The need for mobility of temporarily set-up communication networks poses high challenges to the products in terms of high tensile loading, severe crush occurrences and repeated coiling capability.

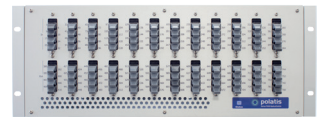


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## Future-ready solutions for the digital world

Many broadcast installations have multiple signal types originating from a camera position to the broadcast center. In addition, the broadcast center may transmit intercom and data signals to the camera position.

Polatis Optical switches allow automated provisioning of the optical signals adding features such as OPM's (Optical Power Monitors), APS (Automatic Protection Switching) and VOA (Variable Optical Attenuation). Protocol agnostic, Polatis switches operate with superior optical performance ensuring low latency and high quality.



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HUBER+SUHNER is certified according to EN(AS) 9100, ISO 9001, ISO 14001, ISO/TS 16949 and IRIS.

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