



## CASE STUDY

**TELEGENIC**

Locations: London, Atlanta  
[www.telegenic.co.uk](http://www.telegenic.co.uk)

### Telegenics' T-Wiz Decentralizes with MediorNet from Riedel

Telegenic, a major remote production company with its main office in the U.K. and U.S. office in Atlanta, chose MediorNet to provide the redundant and decentralized signal routing and transport infrastructure required for its US golf coverage. Their use of the MediorNet real-time signal transport, processing, and routing network resulted in several key advantages:

- Unprecedented flexibility in workflow design
- Integrated glue functions streamline operations
- Drastically simplified setup with decreased time for set and strike
- Integrated redundancies to enable disaster recovery in live production environments and widely varying weather conditions

***“MediorNet, controlled by VSM hardware and virtual panels, provides the technical and production crews with unprecedented flexibility. The all-in-one approach, where we do not need to route signals in and out of various bits of equipment, drastically simplifies setup. Riedel’s network-based design makes connecting the trucks and sharing resources much easier.”***

Andrew Wisniewski  
US Operations Supervisor  
Telegenic

### THE CUSTOMER

Telegenic stands at the forefront of one of the broadcast industry’s most demanding fields of operation, that of outside (remote) broadcasting. For over 30 years Telegenic has delivered the highest standards of quality, expertise, and service to the world’s leading broadcasters. Highly skilled in project management, engineering, and execution they have helped deliver some of the most spectacular live events on the planet. Pioneers in High Definition and world leaders in 3D and 4K, they continually embrace and develop the latest technologies to exceed client expectations.

### THE CHALLENGE

In order to effectively keep T-Wiz on the road for over 34 weeks a year covering golf tour events, Telegenic needed an integrated and comprehensive signal transport, routing, and processing solution. Having previously used a non-integrated solution made up of parts and pieces from multiple vendors, they realized that the only way to stay on schedule would be to invest in an infrastructure that could keep up with their demands.

Telegenic had looked at various IP and ‘software defined hardware’ solutions from other vendors. The team at Riedel was able to demonstrate not only forward thinking, network based design, but also a proven track record for their hardware.

### THE SOLUTION

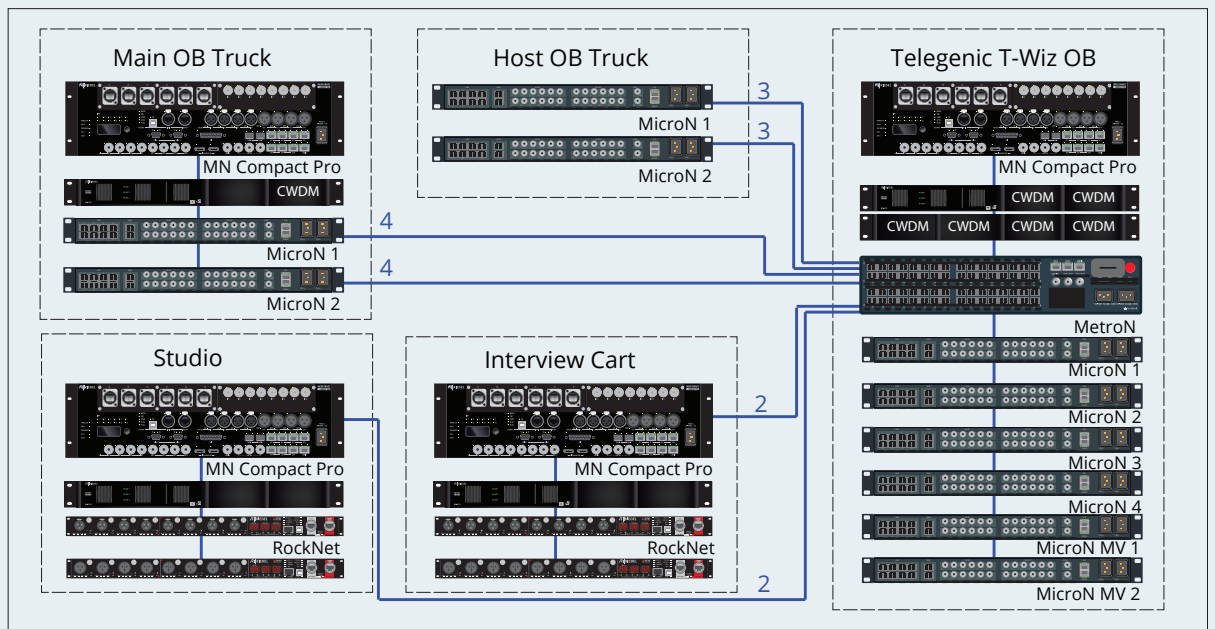
Telegenic’s MediorNet network consists of a MediorNet MetroN core router, 10 MicroN high-density media distribution network devices, and four MediorNet Compact Pro stagebox/mainframes to facilitate transport of HD video and a variety of audio and data signals.



At each golf course venue, the MediorNet components are all connected over a 10 Gbps optical fiber network to form a decentralized routing matrix. WDM multiplexers within the system cut the number of fiber connections required for the Riedel Compact Pros from six singlemode cores down to just two. With MediorNet’s automatic signal re-routing capabilities, Telegenic teams are then able to create full optical redundancy over just four cores.

## CASE STUDY:TELEGENIC

The decentralized backbone allows for unprecedented signal routing flexibility and the ability to easily create redundancies via CWDM optical muxing, resulting in simplified cabling and faster set and strike times.



That built-in redundancy would prove critical during one event. One of the MediorNet Compact frames had only 7 out of 9 links to start and, over the course of a live half-hour show, went down to only 2 links. The system did its job, switching from link to link, keeping the show on the air.

Integrated signal processing functions such as audio and video routing, audio embedding, de-embedding, and the distribution of sync are also of great value and eliminate the need for additional hardware.

In addition, running on two of the MicroNs, the MediorNet Multi-Viewer App provides multiviewing capabilities for up to 18 video signals that can be used to create up to four Multiviewer screens. These can then be used locally or redistributed to any of the MediorNet nodes. Also included is Riedel's RockNet real-time audio network that rides atop the MediorNet backbone to provide backup audio transport from several remote locations.

### THE RESULTS

Riedel's MediorNet network is used in all aspects of the production from fiber-based acquisition of video and audio signals from the Host Broadcaster trucks in the TV compound, thru integration of various on-site locations, to the replacement of traditional broadcast routing and multiviewing hardware. And, thanks to the implementation of optical multiplexing within the system, they are able to reduce the number of fibers required for remote locations while taking full advantage of MediorNet's unique ability to automatically reroute signals in case of cable issues.

***“Multiple formats, low-latency SRC, and plenty of MADI support provide for a fully interoperable audio domain. Integrating MediorNet and RockNet together into the Telegenic project has been a simple and effective process.”***

Simon “Foz” Foster  
Deputy Head of Sound  
Telegenic UK

