

:update

#018

DECENTRALIZED...
...wouldn't it be nice?

Boosting the density of the SMARTPANEL

The New ESP-2324 Expansion Smartpanel



The new ESP-2324 Expansion Smartpanel for the company's award-winning RSP-2318 Smartpanel is a powerful multifunctional user interface with features and capabilities that are changing the way broadcasters and A/V professionals communicate. When connected to an RSP-2318 Smartpanel, the compact new expansion keypanel provides an additional 24 keys and four high-resolution multitouch color displays that are easy to read even at wide angles and in bright sunlight.

"Our Smartpanel user interface is designed to enable a new degree of flexibility in building the communications solutions that professional production and broadcast operations require, and the new ESP-2324 Expansion Smartpanel adds further versatility and scalability to this system," said Jake Dodson, director of product management at RIEDEL Communications.

The combination of the RSP-2318 Smartpanel and just one ESP-2324 expansion keypanel gives users a total of 42 keys and seven displays in just 2RU, which is the highest density available on the intercom market today. Since up to four ESP-2324 Expansion Smartpanels are supported by RIEDEL's RSP-2318 intercom app, users have the ability to extend their Smartpanel configurations to include up to 19 displays and 114 keys.

RIEDEL will feature the new ESP-2324 Expansion Keypanel and RSP-2318 Smartpanel at the 2016 NAB Show in booth C7233. Further information about RIEDEL and the company's products is available at www.riedel.net.

The new MediorNet SDI 2 HDMI



With more and more media devices offering HDMI connectivity, the new MediorNet SDI2HDMI converter provides a simple solution for displaying your MediorNet content on HDMI monitors. An SDI BNC input on the MediorNet SDI2HDMI converts to an HDMI v1.3 signal (audio embedded) on a standard HDMI type A connector.

The compact dimensions allow for easy installation in tight places while the mini-B USB power receptacle (adapter cable to Std-A USB plug included) supports flexible powering options.



AMP VISUAL TV's CTO François Valadou talks about the new Millenium Signature 12, the future of broadcast, and plug & play

Whether it's the biggest global events, television studios, or sporting events, AMP VISUAL TV cultivates a demanding on-air culture, a sense of adaptability, and a constant desire to innovate. As a specialist in TV coverage, and armed with its indisputable 30 years of experience in television production, AMP VISUAL TV provides services for live programs and events. It has one of the most extensive European fleets of OB vans for remote productions as well as nearly twenty studios in the Paris region.

When was the last time you did something groundbreaking?

A few months ago with our team at AMP VISUAL TV we took a huge step forward by adapting a new concept of DEcentralized routing for our groundbreaking Millenium Signature 12 OB van. Having used RIEDEL's MediorNet real-time media network for demanding major events in the past, we were already familiar with the power and flexibility of the system, e. g. in our recent IXI/LIVE DSNG vehicles. In other words: we enjoy the possibility of fully replacing the monolithic router by a DEcentralized MediorNet approach.

"We enjoy the possibility of fully replacing the monolithic router by a DEcentralized MediorNet approach."

Why?

We had to make decisions about how best to invest in future technology, even while standing at the intersection of "classic" OB van building and the introduction of IP-based broadcasting. Simply put, we had to answer the question: What will a

mobile TV facility be five years from now? And the answer for us was very clear: a DEcentralized routing solution based on MediorNet that fits to our current AND future needs. With MediorNet, we are well prepared to face upcoming tasks and challenges in the broadcast world.

Could you explain?

MediorNet MicroN provides us with greater flexibility in building our media infrastructures, from signal transport to full video router functionality and signal processing. In addition, MicroN is fully scalable, allowing us to integrate multiple units in different areas as a fully decentralized hybrid router including significant processing capabilities. A huge benefit is the inherent flexibility and modularity in system design. This allows us to tailor systems for each individual requirement by extending both signal capacity and distributed system locations simply by adding

MediorNet nodes to the network. We at AMP VISUAL TV have the complete freedom of using MicroN in a very flexible way: from stand-alone solution to a core video router.

How were you convinced that this was the way to go?

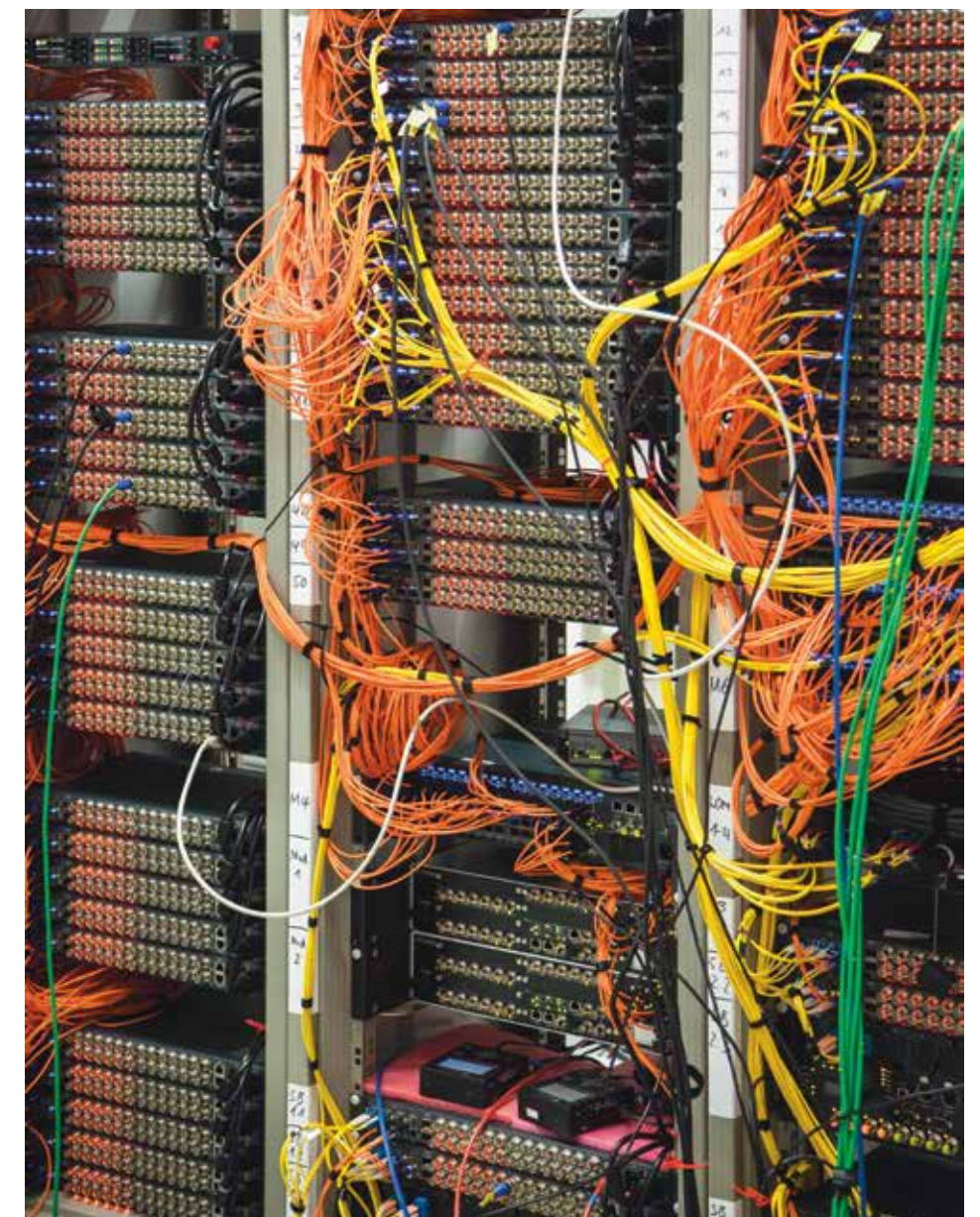
Of course, IP was seriously considered for this project, but we realized that the time has not yet come. The standards are still evolving and we are sure that RIEDEL will accommodate the standards as soon as they are fixed. Furthermore, MediorNet offers the benefit of plug & play functionality which, with IP, is a huge challenge, from where we stand today. With mayor events approaching, we need a 100% reliable and flexible solution today that is future proof as the market migrates towards a fully IP-based environment. RIEDEL's R&D staff were able to understand our specifics requests and work with us to find solutions.

Where will your new flagship OB Van make its premiere?

We're going to the 24 hours Le Mans, the most famous endurance car race in the world. All this with 4K-ready RIEDEL systems on board for the next coverages.

Out of curiosity - what was in your shopping bag, when you left Wuppertal?

Given the ambitious goal for our groundbreaking Millenium Signature 12 OB van, and especially the capabilities to address 4K productions, I have to admit that the system is impressive and we are very proud of the result. Figures? 68 MediorNet MicroN, 8 MediorNet MetroN, 3 MediorNet Compact Pro and 2 MediorNet Modular.



MicroN's together for the last time. FACTORY ACCEPTANCE TEST (FAT) @ RIEDEL headquarters in Wuppertal.

Audi FIS Ski World Cup in Adelboden Depends on RIEDEL

As the world's best male ski racers competed in the Audi FIS Ski World Cup giant slalom event held Jan. 9-10 at Chuenisbärgli in Adelboden, Switzerland, RIEDEL Communications equipment provided the robust and flexible radio communications network essential to a live sports competition.

Designed, deployed, and maintained by engineers from RIEDEL Switzerland, the system ensured clear, reliable communications for groups including race management, security, traffic control, and production. While RIEDEL was responsible for the overall radio infrastructure, system integrator and RIEDEL partner Tingo GmbH handled course planning, the world cup village, the VIP area, and system integration in the finish area.

"FIS World Cup events are complex productions that demand extensive and versatile communications," said Kathrin Hager, general manager and head of marketing and sponsoring at Ski World Cup Adelboden. "RIEDEL Switzerland helped us to design a network that tied together thousands of essential communications threads and to ensure that all key user groups were connected in a way that supported their roles in making the race a success."

RIEDEL Switzerland engineers worked closely with race directors in designing the radio network infrastructure that served as the event's communications lifeline. A RIEDEL Artist digital matrix intercom and control key panels were installed in the mobile operations center along with a RiFace universal radio interface and a DMR repeater supporting 300 radios used by event staff and volunteers. RIEDEL configured the system to enable recording of radio communications so that they could be used to help evaluate any security or safety incidents.

Artist, MediorNet Compact Pro, RockNet, and RiFace radio interfaces were deployed by Tingo to support live commentary and stadium TV during the races as well as the LED screens transmitting the broadcast and production feeds. In the marketplace village, additional Artist, RockNet, and RiFace systems were used, along with a RIEDEL Performer digital partyline system, to support the starting draw and award ceremonies. For many years Tingo has provided their proven expertise and innovative approach to Rivella AG, the event partner of the World Cup Adelboden AG.

"As the technical planner, we work closely with RIEDEL to deliver pioneering system solutions for communications and signal distribution at the Audi FIS World Cup in Adelboden," said Dani Niedermann, partner and planner at Tingo GmbH. "This cooperation has proven its worth time and again and allows us to provide innovative contributions for skiing coverage."

"The Audi FIS Ski World Cup in Adelboden is a premier international sports event that combines thrilling giant slalom racing with great live entertainment, and our intercom and radio communications solutions are an ideal fit for both these applications," said Martin Céréda, project manager at RIEDEL Communications. "We're proud that our systems supported yet another memorable race weekend at Chuenisbärgli – also, thanks to Tingo GmbH."

Japan's YTV upgrades intercom with RIEDEL Artist system

Yomiuri Telecasting Corporation (YTV) has deployed a new RIEDEL Communications Artist digital matrix intercom system at its Osaka broadcast facilities to improve communications supporting production of programming including the popular Japanese variety show Miyane-ya. Installed as part of an ongoing upgrade of YTV's control rooms, the new Artist system in the Studio 3 control room

provides the robust communications functionality needed to manage internal signals and audio contribution from a wide variety of external sources.



"The RIEDEL Artist system provides the reliability and audio quality critical to production of news and entertainment programming, and we've already deployed the system successfully in the YTV OB van and news studio control room," said Koji Fukuda, owner at integrator Crescent Co., which worked with distributor Otaritec Corp. to supply and install the new RIEDEL systems at YTV. "In addition to enabling clear, convenient communications, the new Artist installation in the Studio 3 control room gives YTV

the ability to monitor both the mix-minus feed used by presenters and the numerous external four-wire circuit inputs, which operators can stabilize as needed to ensure optimal quality."

YTV is known not only for highly rated anime programs such as "Inuyasha", "Detective Conan", "Black Jack", and "City Hunter", but also for its news, sports, documentaries, dramas, and variety shows. In the newly upgraded Studio 3 control room that supports many of these shows, YTV staff members use the Artist system to keep an eye on incoming signals, which originate from sources including Japan Telecom and satellite circuits from other countries, and adjust them as they are incorporated into production communications. In addition to new Artist 64 and Artist 128 units, YTV works with an array of remote key panels, belt packs, and headsets that ensure comprehensive connectivity across the production team and presenters.



The compatibility of this new equipment with existing Artist systems in the YTV news studio control room and OB van ensures fluid communications across all of these key production areas. Using RIEDEL's Director software, the YTV team can quickly and easily configure its Artist systems and communications capabilities to meet the demands of any program.

"YTV is a valued customer, and we're proud to be working with Crescent and Otaritec to support the company's continued growth," said Cameron O'Neill, director, Asia Pacific, at RIEDEL Communications. "With an expanding network of Artist units, YTV realizes ever greater agility in producing its dynamic live news and entertainment programs."



RIEDEL real-time media network enables flexible, efficient signal transport at Qatar's Lusail Sports Arena



Lusail Sports Arena in Lusail, Qatar, uses the RIEDEL MediorNet real-time media network and RockNet real-time audio network to simplify management of numerous signals throughout the venue. built to host matches of the 2015 World Men's Handball Championship, the 15,300-capacity indoor sports arena leverages the RIEDEL fiber networks to reduce the overall volume of required cabling and to make a variety of signals available as needed to support live events.

"Our goal in deploying a fiber network at the Lusail Sports Arena was to manage the transport and routing of many signals throughout the building in the most efficient manner," said Moufed Elefrangy, project engineer at Techno Q. "Once we took a look at the MediorNet and RockNet systems from RIEDEL, we knew that we had found the best answer to this challenge. Because we're able to put all signals on fiber and make them all available at every node, we have a great deal of flexibility in addressing the needs of any given production or sports event."

The MediorNet and RockNet systems were integrated into the unique and visually striking architecture of the Lusail Sports Arena by Qatar-based systems integrator Techno Q. MediorNet combines signal transport, routing, and signal processing into a single real-time network solution supporting multichannel SD/HD video, audio, intercom, and data. Offering more than simple point-to-point links, the network makes it easy to send signals to any one or multiple outputs. RIEDEL's RockNet is a real-time, low latency audio distribution network tailored to tour and installed

sound applications. The installation at the Lusail Sports Arena supports all signal transport and gives users the ability to add inputs and outputs when and where required.

"The Lusail Sports Arena is a powerful and iconic visual symbol of Lusail City, which itself represents Qatar's vision of a modern sustainable city," said Ahmed Magd, general manager Middle East & Turkey at RIEDEL Communications. "Though it was built according to the tight timeline dictated by its first event, the 2015 World Men's Handball Championship, the facility boasts an array of advanced technologies. Our fiber-based real-time media network solutions are an ideal fit for such an installation, simplifying extensive signal management while providing the reliability and versatility essential to high-profile sports events and productions."



MAY THE INTERCOM BE WITH YOU!



Inter(com) galactic! RIEDEL artist used in immersive Star Wars experience

RIEDEL Artist digital matrix intercom system was employed in Secret Group's "Secret Cinema presents 'Star Wars: The Empire Strikes Back'" to provide robust and flexible communications.

The fiber-based Artist system allowed for a complex communications system that helped Secret Group transport guests at a former London industrial space into a live recreation of well-known environments and scenes from the "Star Wars" film franchise.

Spread across various areas including show, lighting, automation, and video control rooms as well as the Death Star, Tatooine, and spaceship sets, the Artist intercom system provided communications essential to rehearsals and live shows. During the live productions, the RIEDEL system also supported communications ensuring audience safety.

"As ever, the Artist system gave an incredible amount of flexibility and horsepower to the comms solution," said James "Brew" Breward, systems technical manager, at Wonder Works Limited, technical producers for the project. "The Artist 64 and the 1000 series of panels are my preferred weapons of choice for these projects."

The fiber-based Artist 64 intercom system helped to reduce the time, cost, and complexity of building an extensive network with long cable routes, and it also provided the company with exceptional fidelity and flexibility. The high level of integration with Motorola radios allowed Wonder Works to seamlessly integrate 12 Artist panels with 16 radio

channels to give stage managers more versatility and to ensure clear, always-on communications either via radio or intercom panel.

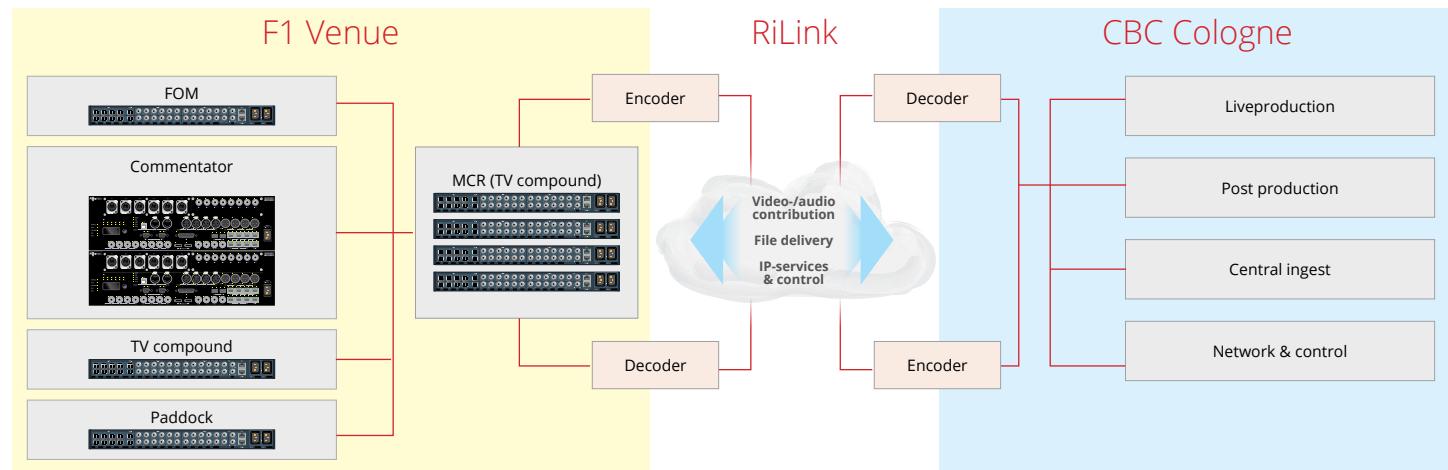
The Artist intercom system was linked very tightly to one large Dante-centered audio system with nearly 200 loudspeakers and 90 discreet audio channels to amplify. In this way, program feeds could be routed smoothly through the communications system. Each performance area was treated as its own event, and shows were triggered locally, with audio, video, lighting and other elements orchestrated by timecode.

"The 'Empire Strikes Back' environment was truly remarkable," said Marc Schneider, director of global events at RIEDEL Communications. "Putting on a production of this complexity and sophistication was ambitious to say the least, and it required the backing of a versatile and reliable communications infrastructure. The Artist system provided the performance that Wonder Works demanded, allowing the production team and performers to focus on making each show a memorable jump into the world of 'Star Wars.'"





REMOTE REVOLUTION



Beginning this season and as the first broadcaster ever, German F1 rights holder RTL Television, has opted for a TV remote production concept supported by RIEDEL's MediorNet real time media network. But how?

"In RIEDEL we trust – partnering with _wige MEDIA and CBC (Cologne Broadcasting Center), RTL Television has realized its very first full remote production with MediorNet."

MediorWorks software allows for integration and management of any third party codecs (H.264 in this case) within the MediorNet infrastructure. Thanks to trunking, the MediorNet backbone could be managed remotely from RTL's Cologne facilities, where also communications is supported via an Artist intercom system. The production team in Cologne is able to

The concept so far
Previously, RTL Television, had a full production team on site at the race track. The world feed, produced by F1 host broadcaster Formula One Management (FOM) and completed by RTL Television's own production team on site, resulted in a fully-produced program that was sent via RIEDEL's RiLink Global Fiber Service over bidirectional links between the race circuits and the broadcast station in Cologne.

What's different?
A good part of RTL Television's production team on-site now remains in Cologne - including vision and sound control, along with editing suites and replay servers. On location are presenters, reporters and editors, cameramen, and technicians. The on-site production now includes two wireless cameras and live commentary, transmitting three feeds (plus three return video feeds) besides the host program feed to Cologne. All signals for the rights holder broadcasters are handed over by FOM.

This groundbreaking remote production concept is supported by a MediorNet on-site backbone, providing complete and de-centralized router functionality and consisting of six MediorNet MicroN high-density signal distribution network devices and two MediorNet Compact frames. MediorNet nodes are located at the TV compound, paddock, and commentary position. The MediorNet infrastructure also provides a perfect connection for the wireless camera receiving infrastructure.

configure and operate Artist comms and to collaborate seamlessly with the on-site in crew in Melbourne (or anywhere) using remote resources. Thanks to this Artist deployment, the production team working in Cologne enjoyed access to all radio communications on-site.

The result
Despite the worst-case distance of Melbourne-Cologne-Melbourne, none of the production team members noticed that a big part of the production was realized in Cologne. Also, increased bandwidth from 30MBit/s to 170 MBit/s, made this production model very similar to the on-the-ground production model RTL Television had previously used. Finally, the system is already poised for 4K and IP workflows.

"Now we do have way more opportunities to produce and edit simultaneously than ever before, while having increased production reliability. Due to the ability to produce and edit in our Cologne headquarters, we do have instant access to our content library to enrich our reports", said Stefan Flügge, head of sports production at RTL Television. "Reduce the team? On the contrary, we expanded it in order to ensure the quality of our broadcast workflows and to increase the amount of content. For this revolutionary step, you need a great team, excellent teamwork, and reliable and innovative technology partners."

#RIEDEL faces Thurid Wagenknecht

Since starting with RIEDEL in 2006, Thurid has logged many thousands of kilometers every year, enabling seamless communications at global events near and far. And its not for only the big events like summer games or world championships, she gives her best for table tennis, too!



THE JOB



"You might think that this job is all about traveling the world and proudly working on the most prestigious sports and events. But, it is not as single-sided as that ;-)

This job also truly gets you in touch with a world unvarnished, with a multi-dimensional view of places, people, mentalities and all the ups and downs, light and shade, which come along with it. It makes you test your limits, and to re-adjust them. Regularly. We'll, you've got to like that. We do!"

Thurid Wagenknecht,
RIEDEL Communications
Programme Manager Global Events

Firehouse Shows Communications Artistry at **NBA ALL-STAR** Weekend

Network integrates TV-production, live-entertainment,
and in-house-production teams

By Ken Kerschbaumer, SVG



Firehouse Productions continues to play an expanding role in the NBA All-Star Weekend communications infrastructure, building out and maintaining a communications network based on the RIEDEL Artist digital-matrix intercom system.

All told, Firehouse managed almost 1,000 carriers, 90 channels of communications, and more than 400 communication devices, including hard-wired systems, master panels, and wireless belt packs.

This marked the third year that Firehouse was involved with the event, and the team included Gaff Michael, RIEDEL programmer; system architects Brian Hurst and Stephanie Celustka; and Luis Espinal, who handled wireless/communications integration.

"The first year, we originally came in to do the entertainment interfacing," says Vinny Siniscal, RF, audio, and communications engineer, Firehouse Productions. "Then, last year, it was in New York City, where we were based on two sites, the Barclays Center in Brooklyn and Madison Square Garden in Manhattan; we doubled what we did the year before. And, this year, the scope expanded again, as things naturally do. This is now one of the largest shows in terms of the amount of intercoms."

The major advance this year was tying in the Turner Sports intercoms, allowing anyone involved with a portion of the massive three-day event to easily communicate with anyone else. The Firehouse system basically pulled together communications from the TV-production team, the live-entertainment team, and even the in-house production team.

That is important for an event that is increasingly ambitious in terms of integrating in-venue entertainment programming with the TV broadcast, according to Chris Brown, senior director, technical operations, Turner Sports,

"For something as simple as light cues, our team can talk to the entertainment people so that they can know when the lights will come back up after going dark,"

he explains. "A short conversation can get our team the lighting cues, and then they can even listen to the cues."

Siniscal and a Firehouse Production team of nine staffers were based inside the Air Canada Center.

"We had one of our RIEDEL Artist frames inside an NEP truck to handle all truck-to-truck communications and then also connected that to the Artist frame [inside the arena]," adds Siniscal. "Everything in the building that needed to communicate could communicate."

Firehouse Productions handles such systems for a wide range of clients, from the live hit during the Grammys of a performance of "Hamilton" to massive corporate events.

The distributed intercom-over-fiber system had full redundancy and was under the control of a simple graphical user interface that makes it easy for the Firehouse Productions team to meet the needs of each production team.

"This weekend was really three separate events: Friday, Saturday, and Sunday all had separate events with separate producers," says Siniscal. "And all those different needs can be met with the push of a button to launch a file and change the whole system. It can morph from the slam-dunk contest to a concert and then to the All-Star game."

RIEDEL not only provides the technical backbone but is also a kindred spirit in terms of corporate philosophy with respect to redundancy, reliability, and scalability. The company's RockNet real-time, low-latency audio-distribution network is also put to use, allowing the Firehouse Productions team to build out a network for each unique situation.

"We can just keep scaling the standard package up," adds Siniscal, "as it's not a one-size-fits-all approach but scalable."

AAAAAAND ACTION!

Since its founding in 2001, the Marrakesh Film Festival has grown into one of the leading artistic and cultural events on the African continent and across the Arab world. For communications engineer Benjamin Garcia of Le Public Système Cinema, who has been responsible for the intercom, A/V networks and broadcast management at the Marrakech Film Festival since 2007, the success of the festival depends on meeting the needs of both the festival's ceremony team and the broadcasters covering the event.

For the 2015 festival, Garcia and his colleagues Gaëlle Fonta and Nora Mouhatta deployed an extensive RIEDEL Artist digital matrix intercom system to enable orchestration of the complex live event and facilitate broadcasters' work to bring the best of this content to their live productions. Supplied to Garcia via French company Tapages and Nocturnes, the Artist system facilitated smooth communications between live event production and broadcast TV production without disturbing either team with information they didn't need. A RIEDEL Artist 64 frame installed in the main hall served as the heart of the system, supporting 13 keypanels, a commentary unit, and a variety of belt packs used by crew including the follow spot and FX machinery operators.

RIEDEL's Acrobat digital wireless intercom system, including a CC-60 wireless control panel controller and WB2 wireless belt packs supported by CA6 antennas, connected stage manager to the communications network. Each WB2 belt pack was programmed independently to enable additional functionality such as an IFB ear monitor test key for Garcia's assistants, and the system's wide antenna distribution enabled reliable multi-sector use.

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So, what are you doing, Anja?



“We are proud that RIEDEL attracts exceptional people from around the world, and our HR team is dedicated to providing excellent support to these team members.”

Anja Teistler,
RIEDEL Communications
HR consultant

In this photo, you can see me conducting a job interview with a candidate for one of our current job vacancies. At RIEDEL, a job interview is not just about identifying a candidate's skills, but also about understanding his or her personality and character. In my role as HR consultant, I always try to identify people who are open-minded and who have both the mind-set and potential to help RIEDEL to continue its success story.

I work with Christian Rath, head of human resources, and other colleagues in our human resources team to manage RIEDEL's worldwide recruiting activities. RIEDEL is a fast-growing company and we have intensified our worldwide recruiting across five continents to attract top

people to our team. Our staff already includes people from 30 different countries, making RIEDEL as international as our customer base and the events we support with our technology and staff.

Thanks to the quality of our global team and to the excellence of our technology, our business continues its rapid growth. Thus, we're looking for highly skilled specialists in various areas. Our international projects offer many opportunities for highly qualified engineers with experience in the fields of broadcast, event, project management, and IT. In particular, we are looking for engineers who can contribute to our Research & Development department, as well as those who would be a fit for technical sales.

Many job applicants I meet haven't necessarily regarded RIEDEL as a potential employer. During the interview, however, they are often surprised about the opportunities offered by RIEDEL. While it's true that Wuppertal, where our headquarters is located, is not Berlin, Munich, or Cologne, it is an attractive city that I believe has a lot to offer. Plus, although RIEDEL already is a 30-year-old company, we still have a certain start-up spirit in us. Employees at RIEDEL can realize their full potential while playing an important role in shaping the company's future. We think outside the box and welcome creativity and new ideas, while our flat corporate hierarchy allows us to make decisions very quickly.



DEcentralize it with MediorNet MicroN!

DB Video, a key player in the Belgian broadcast and event market, recently invested in an OB van that would enable the company to take on larger production projects. However, rather than integrate a conventional complement of technology into the truck, DB Video instead worked with RIEDEL and coach-builder Moeyersons to design an entirely new mobile broadcasting experience.

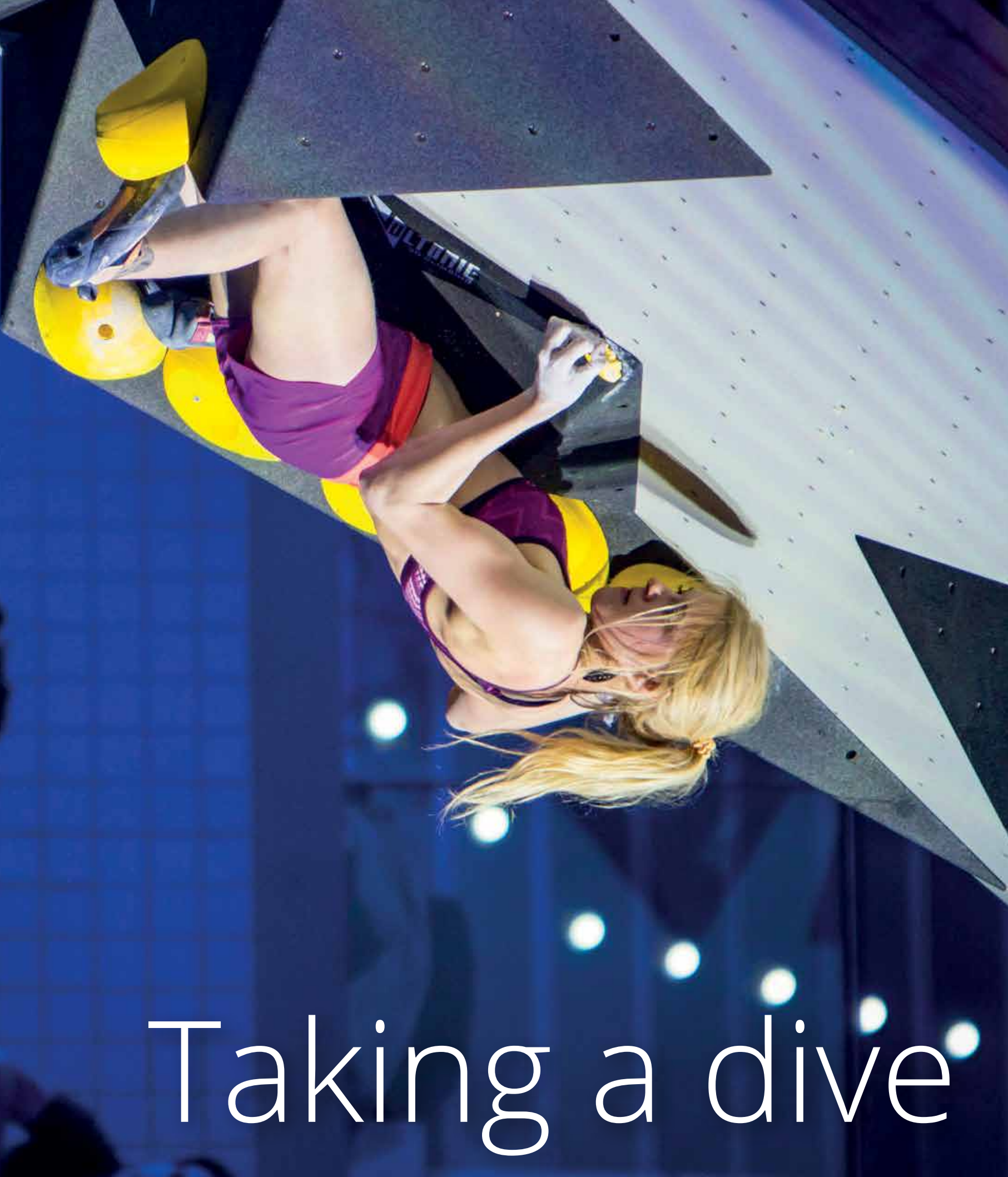
After some drawing work, the team determined it could use a smaller expandable truck — measuring just 11.65 meters long by 2.293 meters wide when closed — as the base for what ultimately would be dubbed DB Video's Unit 10, a future-proof truck with a solid design in a space-saving yet spacious-feeling environment. RIEDEL's MediorNet equipment proved an ideal fit.

Although the router traditionally has served as the central core of the OB van network, the MediorNet media network allowed DB Video to decentralize all nodes and create a cloud truck, with elements of the router situated in the ideal physical location for any given production or workflow. A complete system, including 18 MicroN units, two MetroN systems, and four MediorNet external stageboxes, was integrated into Unit 10, and the resulting decentralized matrix was expanded through the interconnection of a router and RIEDEL Artist digital matrix intercom system. All MicroN units installed in the van feature a MADI connection, and all I/O in the cloud boast embedding and de-embedding options, multi-viewing capabilities, SMPTE2022-6 support, video format conversion, and time code insertion.

The RIEDEL equipment was deployed in a fully redundant configuration built on a 10Gbit/s fiber network. To provide the foundation for flexible remote productions, DB Video implemented RIEDEL's MediorNet Compact Pro systems to create remote hubs that enable extra cameras to be connected to the OB van through simple fiber connections. With this complement of gear and its space-saving design, Unit 10 represents new broadcast future-proof technology and demonstrates that a new approach to building OB vans — inside and out — can be a key differentiator in a competitive marketplace.



Taking a dive



RIEDEL SUPPORTS HARDMOVES INTERNATIONAL BOULDERING SUPERFINAL COMPETITION IN HOME TOWN OF WUPPERTAL

As the six strongest teams of the HardMoves Fight Club met at Wuppertal's magnificent Historische Schwimmoper indoor swimming center to compete in the international bouldering series SuperFinal, RIEDEL Communications supplied the real-time media network and intercom system that supported live links to other venues, as well as live streaming. During the March 5 event in RIEDEL Communications' hometown, the company provided a MediorNet fiber network, Artist digital matrix intercom system, Performer digital partyline intercom system, and a STX-200 professional Skype® interface, as well as a variety of control panels, backpacks, and radios, to enable flexible, reliable signal transport and communications.

Hailing from Wuppertal himself, RIEDEL Communications Managing Director Thomas RIEDEL avidly supports HardMoves. "We first partnered for the SuperFinal in 2013 and were thrilled by the organizers' passion and enthusiasm. The quality of competition of the HardMoves is impressively high, and we were delighted to participate in this event again in 2016 as a local business."

Over the past season, nearly 7,000 climbers from six nations participated in the HardMoves series. Competitors included World Cup winners, World Champions and the best boulderers on the planet. Hosted by Wuppertal, the concluding event of the HardMoves Fight Club Edition 2015/2016 featured athletes climbing floating 7-meter-high walls in front of an enthusiastic crowd of 1,600, with another 2,300 fans watching on a giant screen at the nearby Historische Stadhalle. In all, more than 10,000 viewers watched the event live or afterwards at www.sportdeutschland.tv and the event's two YouTube channels drew 32,000 views during the competition.

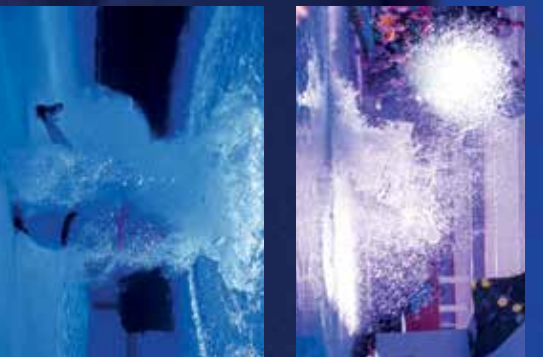
"Unlike any other sports event, HardMoves allows world-class athletes to rub shoulders with complete no-names — the climbing pro meets the amateur, and anything is possible until the final move," said Ute Zimmermann of the HardMoves team. "With the support of RIEDEL's technology, we've been able to bring the exciting SuperFinal action live to fans watching just down the road and around the world."

To support audio signal distribution, RIEDEL tunneled AVB over a MediorNet fiber network to connect two Avid consoles from satiskfy. To create links between the three Schwimmoper locations and the Wuppertal city hall more than one kilometer of fiber was used. Together, an Artist 64 system and Performer system enabled communications at the two sites. RIEDEL also supplied a wireless HD camera, a commentary control panel and headset, and 35 analog radios.

RIEDEL's STX-200 interface facilitated real-time interaction between fans watching at a climbing club and the fans in the Historische Schwimmoper during the competition. Licensed by Microsoft, the STX-200 is a stand-alone, broadcast-grade solution that leverages Skype to bring live content from remote participants directly into the live production. Together, the STX-200, MediorNet, and Artist systems enabled transport of program video with embedded audio to production, as well as flexible routing of signals to individual Skype users using Surface™ tablets and other smart devices. The MediorNet network also was used to feed several live streams to the Wuppertal city hall. With fans around the world watching at public venues and on several online platforms, organizers estimate that up to 100,000 spectators watched the SuperFinal.

"The strengths of RIEDEL systems really shine in live event production for extreme sports, and the popular HardMoves event in Wuppertal was no exception," said Rebekka Jacobi, senior project manager at RIEDEL Communications. "Our STX-200, MediorNet, Artist, and Performer systems made it easy to produce a highly dynamic and interactive live video stream worthy of the HardMoves SuperFinal."

The HardMoves event was organized by the team at Wuppertal-based Climb-Inn Klettersport GmbH & Co. KG, headed by managing directors Arndt Wilmanns and Christian Poppen.



Saving the PLANET

MediorNet supports communications
at historic UN climate change conference.

At the 2015 United Nations Climate Change Conference (COP 21) held last December in Le Bourget, just outside Paris, the success of the event demanded even more than reaching a global agreement to curb the acceleration of climate change. As the conference negotiated the Paris Agreement, the text of which represented a consensus of the 196 international delegations attending COP 21, organizers had to overcome the challenge of enabling critical real-time distribution of video, audio, and intercom signals between sites spread across several thousand square kilometers. The provision of services and the backbone supporting communications and signal distribution was handled by AV France, which established an extensive audiovisual infrastructure spanning multiple locations.

AVFrance's technical director, Dominique Cerveau, opted to build this decentralized audiovisual infrastructure on a RIEDEL Communications MediorNet ecosystem. The significant distances between connected sites clearly called for an optical fiber solution, and AV France used the fiber-based MediorNet real-time media network as the backbone for signal distribution because it could leverage a combination of ring and star topologies from the event nerve center located in the heart of Le Bourget, in the northeastern suburbs of Paris.

Connected with the two plenary rooms, the main press conference rooms, and their respective OB-Vans, the MediorNet network provided points of presence on multiple remote sites including DSNG vehicles, multiple meeting rooms, TV studios, Webcast facilities, CCTV distribution, and others. A CWDM optical multiplexing scheme was implemented to limit the number of optical fibers in the field.

Because all MediorNet networks can be programmed and managed via the versatile MediorWorks software, AV France could assign all ports dynamically, without the need to touch the hardware. Routing a signal to a different destination required only a mouse click, so they were able to adapt signal distribution quickly and easily as needed to keep up with the many demands of the landmark U.N. conference.

MediorNet not only supports a variety of signal types, such as HD-SDI video, analog and digital audio, data, and control signals, but also facilitates the integration of RIEDEL's RockNet real-time, low-latency digital audio network and Artist digital matrix intercom systems into the overall audiovisual infrastructure. To add to the audio and video I/Os provided at each point of presence, AV France deployed and fed RockNet audio interfaces into the MediorNet network at key sites requiring extra audio channels. They also incorporated an Artist intercom system into the mix, connected directly to the MediorNet interfaces and, in turn, the optical network. The RIEDEL intercom system provided clear and reliable communications via intercom keypanels at each point of remote presence, with intuitive programming keeping setup and configuration simple.

"The MediorNet solution's native signal processing capabilities, which include embedders/de-embedders audio, frame store, frame synch, time code inserts, and signal generators, greatly simplified our operations during COP 21," said Cerveau. "The combination of transport, routing, and signal processing enabled by the RIEDEL gear, as well as the ability to have video, audio, and intercom in a single real-time network, were extremely valuable in carrying out this major project."

★ THE MOST ★ WANTED



Over the past year, RIEDEL's North American team has expanded significantly in tandem with growing demand for RIEDEL solutions in the U.S. and Canada. Under the leadership of **Joyce Bente**², president of RIEDEL North America, promotions and new hires across this region have positioned RIEDEL to ramp up its sales, service, and support capacity and capabilities.

Patti Gunnell⁵ has been promoted the position of vice president of sales, Western U.S., with an emphasis on entertainment markets. Patti most recently served as a RIEDEL sales manager specializing in entertainment, and she now is responsible for managing sales and business development for the western half of the United States across all markets. At RIEDEL and in earlier roles, she has distinguished herself as an exceptional salesperson.

Ryhaan Williams⁸ is RIEDEL's new vice president of sales, Eastern U.S., tasked with strengthening existing relationships, creating strategic alliances for

the Eastern region, and expanding sports markets nationally. She was director of strategic accounts at Joseph Electronics, principal and general manager at Tandem Solutions, and business development manager for Bexel's New York office. While at Gepeco and Venue Services Group, she oversaw installations at major Northeast sports arenas and stadiums.

Rhett Frazier⁴ has been hired to oversee business development for the Western U.S. He joined the company with nearly a decade of experience in broadcast- and media-focused sales, account management, solution design, and business strategy and development, and he has held various business development and strategic account management roles at Key Code Media, Cineverse, Bexel Broadcast Services, and HomeRun Media.

As manager of systems consultants, **Rick Seegull**³ himself will serve as a systems consultant while managing RIEDEL's growing team of systems consultants. He will be responsible for coordinating his team's efforts with the RIEDEL sales team;

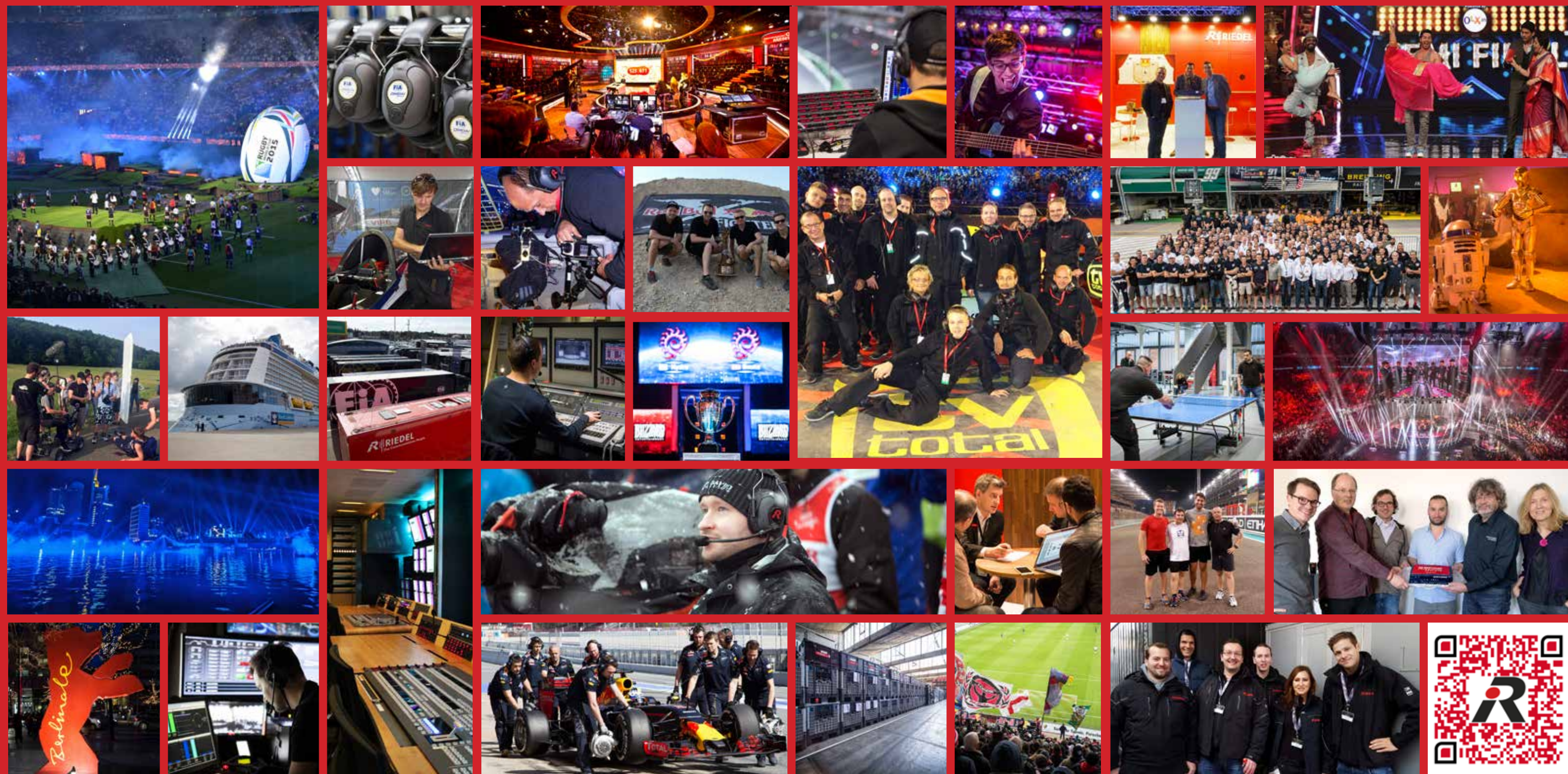
scheduling consultant time for demos, client visits, and system designs; working with RIEDEL's marketing department to address different vertical markets; and serving on industry panels as a representative of RIEDEL North America.

Broadcast-industry veteran **Joe Commare**⁶ has been hired as marketing and sales manager. Joe is designing and implementing new marketing strategies geared toward North American markets, and he's also providing sales and technical support when needed. **Jeremy Lommori**⁷ has been promoted to serve as head of technical sales and support, a role in which he oversees the expanding system and support engineering team.

Zack Funk¹ rounds out the team as a system and support engineer where he assists the service and support engineer with the repair process, answers customer calls, and performs commissioning and training services.







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