RIEDEL

:update

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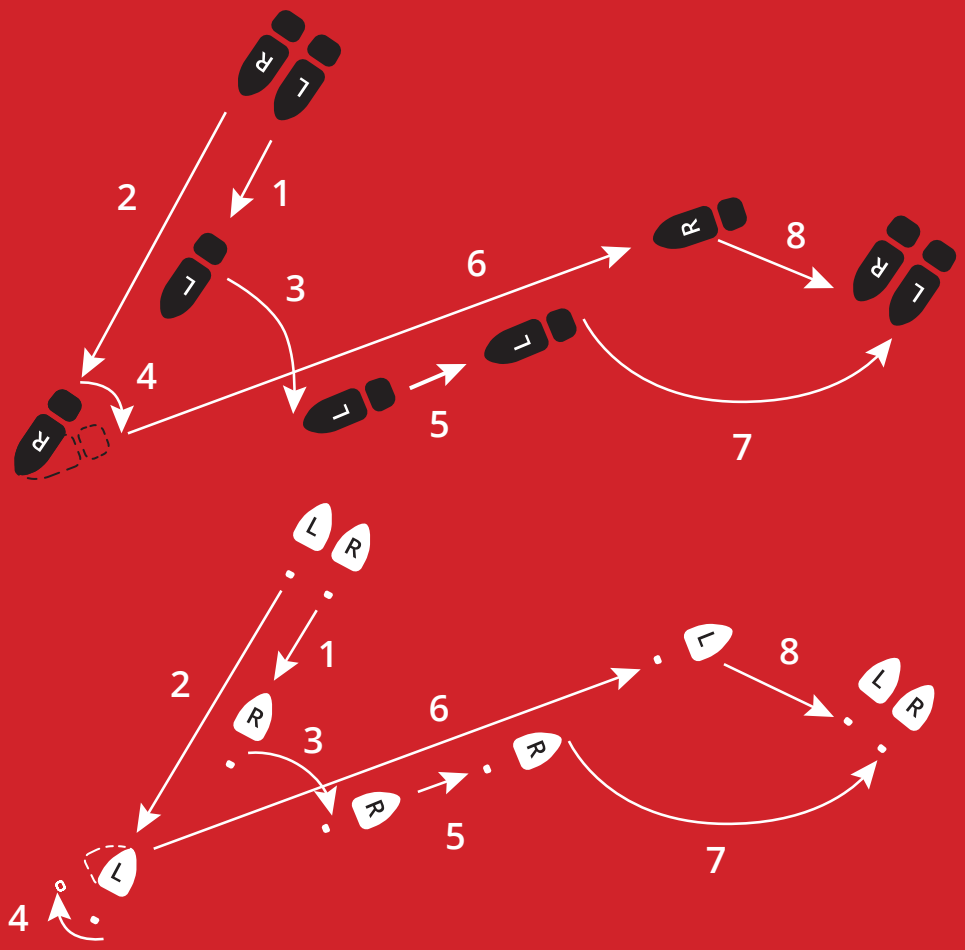

RIEDEL'S NEXT STEP

TNG-200 TANGO

"We have been on the forefront of AVB adoption for several years now, and we are proud to introduce the world's first network-based AES67 and AVB standard capable intercom system at IBC2014. An exceptionally flexible platform, Tango not only adapts to users' specific requirements, but also accommodates current and future standards in broadcast, theater, and live-event environments." Thomas Riedel CEO

A perfect example of German engineering, Riedel's Tango TNG-200 is an efficient stand-alone platform equipped with a sunlight-readable high-resolution, full-color TFT display that ensures perfect readability at all times, thus maximizing ease of use and extending the range of possible applications. The unit's intuitive front panel controls simplify the recall of presets and adjustment of audio levels. Along with powerful processing capabilities, the Tango TNG-200 platform features two integrated Riedel digital partylines, two AES67- and AVB-compatible ports, two Ethernet ports, one option slot, and redundant power supplies. The system is 1.5-RU high and features a shallow mounting depth and a low-noise design. It is fully compatible with all of Riedel's current and legacy intercom panels, including the company's new RSP-2300 Series smartpanel. A powerful intercom application for the Tango TNG-200 platform transforms it into an efficient intercom system and enables users to tailor platform characteristics — including matrix size, starting with a 40 x 80 system — to their needs. The software offers full backwards compatibility with the complete range of Riedel control panels and accessories.

Riedel's new Pulse software enables configuration of the Tango TNG-200 platform. The software allows users to access, set up, and control of any aspect and function of the platform and its installed applications, including Riedel's intercom application. Programming is easy, thanks to convenient dragand-drop functionality and 3D views.

RSP-2318 SMARTPANEL

As the world's first smartpanel designed to serve as a powerful multifunctional user interface, the RSP-2318 offers features and capabilities that will enrich the user experience and change the way broadcasters and AV professionals communicate.

The unique feature set of the RSP-2318 multifunctional user Interface includes high-resolution, sunlight-readable multi-touch color displays; premium-quality stereo audio; a multilingual character set; and 18 keys in just 1 RU. Together, these features make Riedel's new Smartpanel the best in its class, and a variety of apps enables expansion of this robust solution. Offering AES67 and AVB connectivity as standard, and optionally AES3 over CAT/coax (through the option slot), Riedel's RSP-2318 Smartpanel provides exchangeable headset connectors for mono or stereo applications, an integrated power supply, individual volume controls for each key, two USB ports, two Ethernet connectors, GPIO, audio I/O, an option slot, a removable gooseneck microphone, and an HDMI output. A low mounting depth simplifies installation of the unit.

Developed to address communications applications including intercom, the RSP-2318 Smartpanel provides an intuitive and flexible user interface that can handle multiple tasks. In the same way that Smartphones have far surpassed traditional mobile phones in enriching the user experience, the Riedel RSP-2318 Smartpanel will bring broadcast workflow to a whole new level. The RSP-2318 Smartpanel is backward-compatible and thus can be integrated into any existing Riedel installation. Support for new and legacy systems ensures smooth interoperability among all Riedel intercom systems, including the Artist, Tango, and Performer products.

Riedel's STX-200 Brings Skype Capabilities to Live Broadcast and Production Workflows

Licensed by Microsoft, the STX-200 is a stand-alone, studio-grade solution that leverages Skype to bring live content directly from reporters to the on-air production. The Riedel unit offers broadcast-quality HD-SDI and balanced XLR audio I/Os and is packaged with professional Microsoft Skype TX software, available exclusively with the STX-200. The solution's broad feature set includes remote management and monitoring of Skype calls.

"This collaboration with Microsoft has been over a year in the making, and we are very proud of the result," said Thomas Riedel, CEO of Riedel Communications. "By enabling use of a tremendous volume of new content, the STX-200 will change the way broadcasters interact and engage with their viewers. Broadcasters now have live access to quality video from the more than 300 million regular Skype users around the world, and the STX-200 equips them to take the best of this content to engage the imaginations, hearts, and minds of their audiences. The STX-200 offers professional video interfaces including an SDI (SD/HD) input and SDI (SD/HD) output with a sync input. The unit's studio-grade audio interfaces include a two-channel analog audio XLR input and output (each one with a balanced line level), as well as SDI embedded audio. Within a robust housing designed for the rigors of broadcast and production, the STX-200 features a Gigabit Ethernet connection, a user-interface connection via HDMI, USB ports for accessories, and GPI's.

European Parliament Elections

During this 'mother of all elections' in Brussels, the need for a dependable and very versatile network to support all the broadcast and communications requirements was huge. Flexibility was a foremost concern, as last-minute requests and modifications during the 2009 European Elections had showed that A/V and intercom circuits must be managed carefully from the beginning. Also security was a very important topic, particularly as the complex installation for this year's elections was to be spread over four buildings and used for a variety of applications. All this required a stable, flexible and redundant network for HD video, audio, and broadcast-quality intercom signal management, routing, and processing. Therefore DB Video, host broadcaster of the European Parliament Elections 2014 relied on Riedel MediorNet, Artist, and RockNet Systems.

Though the installed systems used regularly at the European Parliament are designed to support applications including captioning, recording, ingest, broadcasting, and archiving, a special event such as European Parliament Elections 2014 demanded additional equipment. Further gear was required to support use of numerous mobile production sets, stand-ups, satellite newsgathering teams, press conferences in the chamber redesigned for the event, and graphics explaining various election results. To cover these temporary facilities efficiently with security and flexibility, additional A/V circuits, management tools, and intercoms were crucial.

To this end, European Parliament worked with DB Video to deploy a large-scale MediorNet real-time media network and Artist digital matrix intercom system from Riedel Communications. The large-scale system installed within the parliament buildings included 40 MediorNet frames connected over redundant fiber, two Artist 64 systems, the Riedel RockNet digital audio network, and a number of Riedel panels already in use on site. These systems were connected in a ring topology over a fiber network put in place by DB Video in cooperation with Amubel, which then connected to the in-house fiber network.

The Riedel network enabled DB Video to interconnect seven different broadcast sets with up to 10 cameras each, which were used for press conferences, interviews, and live commentary on the results. An additional 40 SNG and over 60 live stand-up positions were set up throughout, and adjacent to, the parliament buildings to complement these sets. Because DB Video had created a plan to address both routing and processing, including up/down-conversion, embedding/de-embedding of audio, and synchronization, Riedel was able to preprogram and test the whole system in advance. The installation was nearly plug and play, allowing DB Video to install the network much faster than expected and to focus on final adjustments to the network configuration.

Ensuring excellent performance throughout the elections, Riedel's high-quality systems proved to be a clear factor in the success of A/V and communications. Integrating Riedel technology and taking advantage of the company's decentralized approach to signal distribution, allowed for simplifying the installation, reducing the burden on engineering staff, and making operation much easier for non-technical staff such as operators, managers, and end users. By adding intercom and an audio network on top of this network, all conditions were met to support a complex event on both technical and operational levels.

The Riedel Benelux team worked closely with DB Video and the counterparts within the European Parliament to make sure that the installed fiber network could support a high volume of signals while maintaining high video and audio quality, as well as flexibility in managing a continually changing array of sources and outputs.

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Connecting Glasgow's Commonwealth Success

GLASGOW 2014
XX COMMONWEALTH GAMES

Official Radio Communications Services Provider

Once again Riedel has provided robust, reliable technology by supplying all radio communications equipment and services for the XX. Commonwealth Games.

Riedel was appointed as the exclusive supplier for this major sporting event, which ran from 23 July to 3 August in Glasgow, and has provided over 6,000 radios, plus a full support infrastructure, to cover the 14 venues, three clusters and one athletes' village in and around Glasgow. Riedel also supplied intercom systems for use at every one of the iconic venues around the Scottish city, for organization, security, spectator services, presentation, connecting medical and other staff and for broadcast production.

Riedel's solutions provided coverage and communication on the street, across the many official venues throughout the city, as well as along the cycling road race and marathon routes and all indoor coverage at the competition locations. The various venues used for the

Games included Celtic Park, Hamden Park, Ibrox, The Emirates Arena and Sir Chris Hoy Velodrome, Strathclyde Country Park, the SECC Precinct, the athletes' village and not forgetting the Royal Commonwealth Pool in Edinburgh, among others. In addition, Riedel has supplied the radio communications solution for the opening and closing ceremonies.

Anyone who knows Glasgow well will appreciate the vastness and enormity of a network connecting some of Britain's most iconic and modern venues over the eleven days of the Games' duration.

To fulfill the demands of the project, 7,500 radios in total were used. The radio solution provided by Riedel was also used during the Queen's Baton Relay, which saw 4,000 bearers run the route through the 32 Local Authorities across Scotland to deliver the baton to Glasgow in time for the Games.

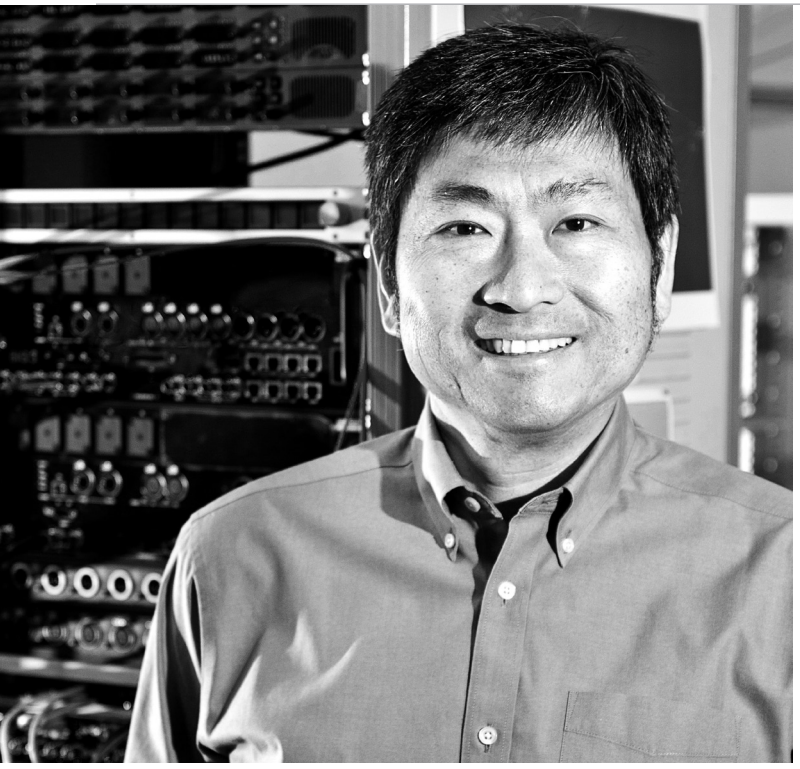
Before the close of the Tournament, Glasgow City Council had revealed that the Commonwealth Games was the city's most successful sports event to date. 1.2 million tickets were sold in total, with at least 300,000 visitors having viewed the city's live sites.

TV Skyline Equips Flagship HD OB Van With Riedel Artist Digital Matrix Intercom System

TV Skyline has integrated the Riedel Artist digital matrix intercom system into OB 7, the company's flagship HD mobile production unit. The Artist system makes it easy for TV Skyline to configure and manage all the communications necessary for production of international events of any size.

The new OB 7 HD van is outfitted to support twice as many operator positions as the company's other HD units, and it is equipped to support Ultra HD. Boasting three separate control rooms, it is designed for use in a variety of productions ranging from high-end entertainment shows and concerts to sports. Intended to feel like a fixed studio environment, the truck features large multipurpose rooms with movable glass walls.

OB 7 is equipped with two fiber-connected Artist frames, one 128 x 128 and one 64 x 64 frame, and 25 intercom panels, two commentary control panels, and three RiFace universal radio interfaces, which enable TV Skyline to link its wired communication systems with radio systems including two-way Motorola DP-4600 radios. For larger or distributed productions, multiple Artist systems can not only be linked in a fiber ring, but also trunked via conventional telephone, ISDN, or VoIP trunk lines. As a result, OB 7 can connect to virtually any operator at any television compound, anywhere.



IT-based Media Infrastructures in Broadcast?

...a question for Jiou-Pahn Lee

Riedel's Director Research and Development

1. It seems that IT will play an increasingly important role in the broadcast world. What impact does this development have on Riedel's upcoming solutions?

Jiou-Pahn: Few industries develop so dynamically as broadcast. And yes, IT-based broadcast infrastructures are becoming more accepted. Riedel will take this key development into account, supporting this paradigm shift in terms of developing future integrated solutions for video and audio infrastructures.

By driving forward this approach, we will achieve a greater independence of software from hardware. We will be able to provide our customers with even more flexible solutions that can be tailored specifically to their needs. They can decide which functionalities they want and can easily upgrade their systems due to this modularity. This will not happen overnight, as it requires the incorporation of IT-knowledge, both for manufacturers and users. Moreover, some requirements of the workflows in the broadcast industry are not yet covered by these new technologies and certain aspects of the next generation equipment will require changes in how we operate.

"We are ready"

However, the benefit is evident: IT-based media infrastructures plus more standardized hardware, will enhance workflow efficiency and create more networking opportunities for customers. This will, in turn, enable more powerful and flexible production and delivery environments with higher performance, capabilities, and speed.

2. What is crucial today when it comes to connectivity?

Jiou-Pahn: Rather than participating in the discussion about the various connectivity standards, we focus on the design of flexible systems in order to offer our customers an integrated system approach with maximum connectivity options using their standard of choice. Our products are based on programmable hardware, which can support proprietary interfaces today but can just as well be adapted to standard layer 2 and layer 3 (IP) based interfaces for tomorrow.

Riedel's direction is clear: we are moving towards the integration of the existing standards used in the broadcast market. By supporting layer 1, 2 (such as AVB), and 3 (such as AES67 for audio or SMPTE 2022 for video) interfaces in the future, we will integrate all three transport layers into one solution to maintain maximum flexibility and achieve compatibility, at the same time.

3. What makes your products future-proof for the customer?

Jiou-Pahn: We at Riedel have the clear vision to create sustainable value for our customers. When supporting increasingly IT-based media infrastructures, it is fundamental to ensure a smooth transition for our customers. We are very well prepared since all our current solutions are already based on IT-related architectures. As a result, we are already introducing customers into this new world of IT-based media infrastructures.

At the same time, we continue to support all the legacy interfaces. With Riedel's "plug and play" feature set, our customers will be able to continue operating the new systems as they do with our current gear.

We will guarantee future-proof products and solutions on two levels: through software evolutions such as features/functions and system size, and through hardware evolutions like connectivity (interfaces) and processing power.

MEDIORNET: Flexibility for Egypt's CBC

Egyptian TV channel Capital Broadcast Center (CBC) has upgraded its Cairo facilities and operations with the installation of a MediorNet real-time media network. Riedel MediorNet frames enable flexible transport of 10 HD video signals between two CBC buildings within the Egyptian Media Production City.

"Riedel's MediorNet solution is an ideal fit for our operations not only because of its flexibility and intuitive operation, but also because of the rich feature set it provides," said Mohamed Hammad, playout manager for CBC. "In deploying MediorNet for HD signal distribution, we've realized much greater freedom in establishing point-to-point and point-to-multipoint signal transport with valuable cost-saving benefits including reliable synchronization."

Enabling CBC to move beyond simple point-to-point links, Riedel's MediorNet network allows the broadcaster to send any incoming signal to any output or even to multiple outputs. Because routing is managed through a straightforward user interface, CBC can change its signal-routing configuration without the need for re-wiring or physical patching. MediorNet also helps to eliminate the need for external devices through integrated broadcast-quality processing and conversion features such as frame store/frame synchronizers and embedders/de-embedders at any input/output.

Going forward, CBC can connect additional sites easily and increase the signal load by adding MediorNet frames to the network. The broadcaster has plans to augment the installation with a Riedel Artist digital matrix intercom system as well, which will allow for the connection of a talk-back panel linking production staff across CBC facilities.

"One of the reasons for CBC's leadership in Egypt's broadcast market is its willingness to use new technologies to overcome operational obstacles and limitations," said Ahmed Magd El Din, general manager, Middle East and Turkey, Riedel Communications. "We look forward to building on the success of this installation, which provides CBC with even broader signal transport and communications capabilities."

Riedel Serves as National Radio and Intercom Service Supplier for Zurich 2014

Riedel Communications Switzerland served as the official radio and intercom services supplier for the 22nd European Athletic Championships in Zurich. Throughout the event, which brought approximately 1,400 athletes from 50 countries together for a competition attended daily by 25,000 spectators, Riedel equipment supported communications and provided the main fiber backbone for in-house video distribution.

Riedel's MediorNet real-time media network carried video for event presentations and ceremonies, with feeds routed not only to the LED walls in Letzigrund Stadium, but also to the road race in the city and to the games' two warm-up stadiums. In addition to connecting the control room and front of house position, the MediorNet system supported a variety of intercom panels for communications and audio distribution.

Riedel deployed four Artist digital matrix intercom systems on a single fibre network to enable communications across the stadium and on the road race course in the Zurich city center. The team of 13 engineers working on site used Riedel's Juggler to enable the connection of TETRA radio systems to support the nearly 500 volunteers and other professionals using Motorola radios.

Riedel Switzerland also managed all frequency coordination for radios, microphones, in-ear systems, and wireless camera systems — a total of more than 300 devices — used in the stadium and on road races.

Riedel Switzerland, established in 2010, planned and managed the entire poject.

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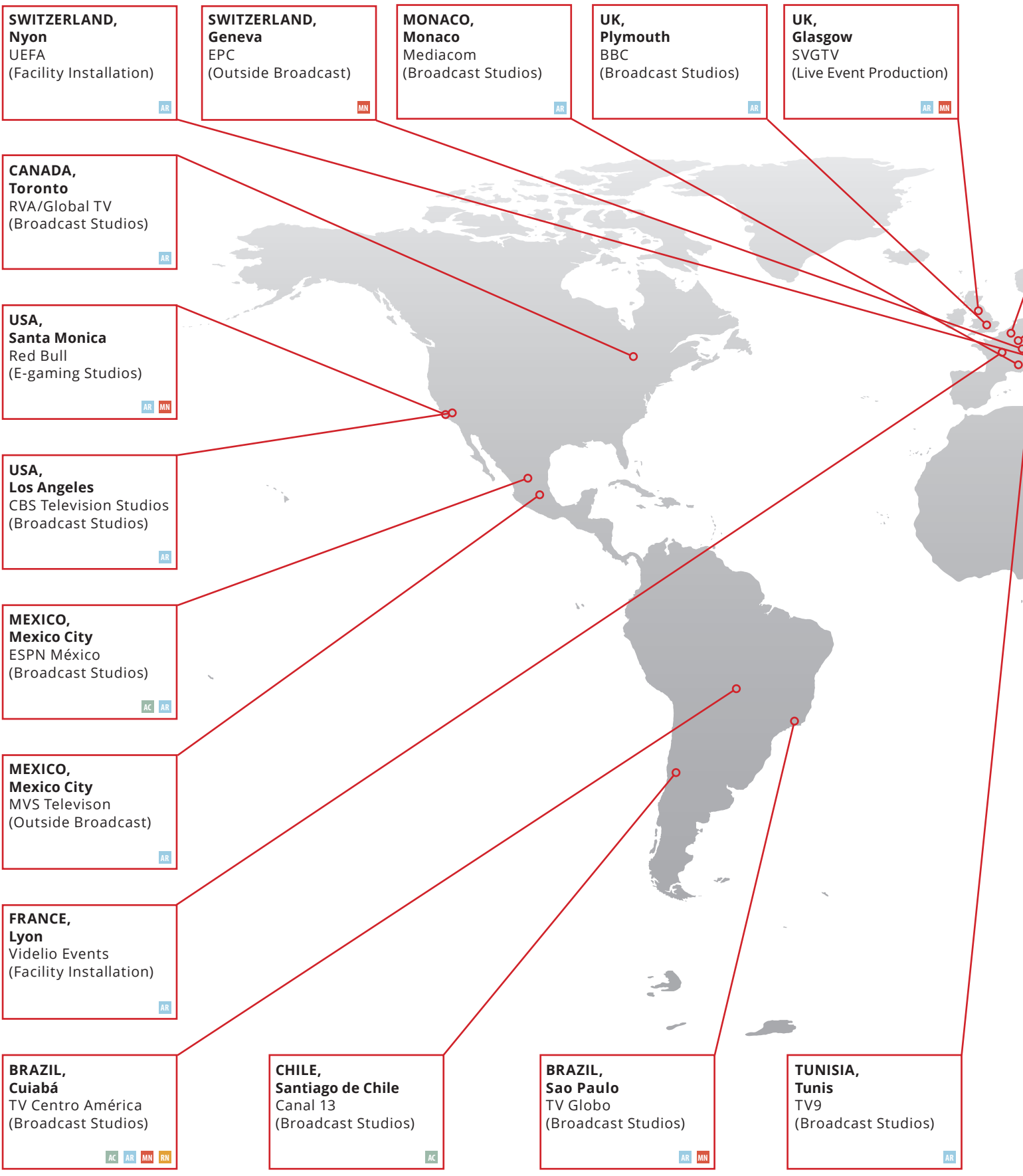
Recent Installations (selected)



SWITZERLAND,
Nyon
UEFA
(Facility Installation)
AR

SWITZERLAND,
Geneva
EPC
(Outside Broadcast)
MN

MONACO,
Monaco
Mediacom
(Broadcast Studios)
AR

UK,
Plymouth
BBC
(Broadcast Studios)
AR

UK,
Glasgow
SVGTV
(Live Event Production)
AR MN

CANADA,
Toronto
RVA/Global TV
(Broadcast Studios)
AR

USA,
Santa Monica
Red Bull
(E-gaming Studios)
AR MN

USA,
Los Angeles
CBS Television Studios
(Broadcast Studios)
AR

MEXICO,
Mexico City
ESPN México
(Broadcast Studios)
AC AR

MEXICO,
Mexico City
MVS Televison
(Outside Broadcast)
AR

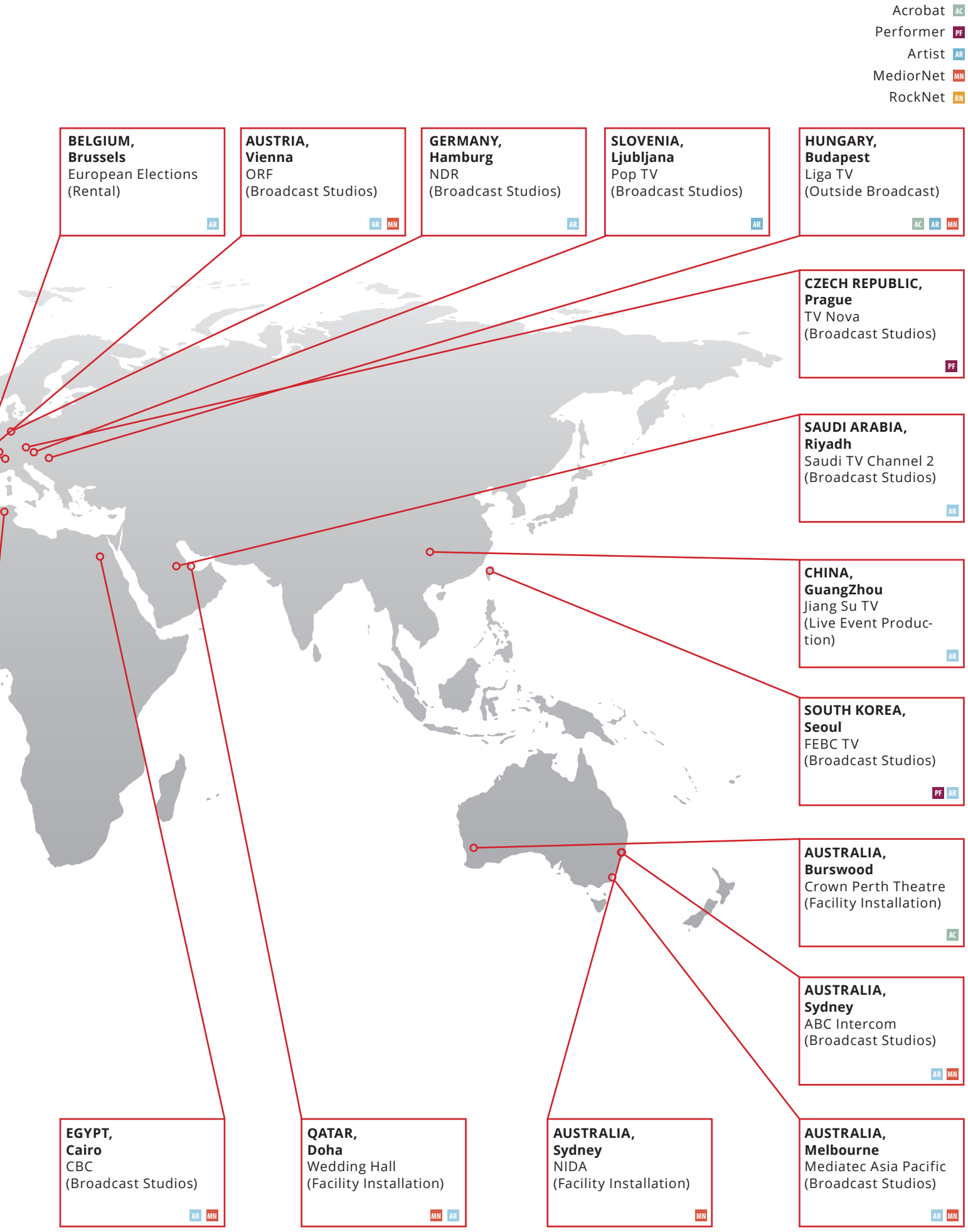
FRANCE,
Lyon
Videlio Events
(Facility Installation)
AR

BRAZIL,
Cuiabá
TV Centro América
(Broadcast Studios)
AC AR MN RN

CHILE,
Santiago de Chile
Canal 13
(Broadcast Studios)
AC

BRAZIL,
Sao Paulo
TV Globo
(Broadcast Studios)
AR MN

TUNISIA,
Tunis
TV9
(Broadcast Studios)
AR


Acrobat AC
Performer PF
Artist AR
MediorNet MN
RockNet RN
BELGIUM,
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Vienna
ORF
(Broadcast Studios)
AR MN
GERMANY,
Hamburg
NDR
(Broadcast Studios)
AR
SLOVENIA,
Ljubljana
Pop TV
(Broadcast Studios)
AR
HUNGARY,
Budapest
Liga TV
(Outside Broadcast)
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CZECH REPUBLIC,
Prague
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(Broadcast Studios)
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Riyadh
Saudi TV Channel 2
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GuangZhou
Jiang Su TV
(Live Event Production)
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SOUTH KOREA,
Seoul
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PF AR
AUSTRALIA,
Burswood
Crown Perth Theatre
(Facility Installation)
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