



## REFERENCES

### AEQ INTERCOM SYSTEMS





2016 to 2019  
Updated December 2019





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## AFRICA





<b>ANGOLA</b>	<b>TELEVISÃO PÚBLICA DE ANGOLA (TPA)</b>	
	<p>Televisão Pública de Angola (TPA) is an Angolan public media company created in 1973. It is based in Luanda.</p> <p>Commissioned to the Italian integrator ARET to develop a TV Van OB for satellite transmission (DSNG). Aret and TPA entrusted AEQ with the supply of the intercom system.</p>	
<b>EGYPT</b>	<b>WAHSH SERVICES FREE</b>	
	<p>The company has acquired for a TV stations in Egypt, two TB 3000 intercom matrix with 12 ports, the first unit in 2014 with CCU concentrator and TP3016 user panels, and the second one in 2016 with CCU concentrator and 4000 series panels</p>	
<b>EGYPT</b>	<b>SUEZ UNIVERSITY</b>	
	<p>Established in 2012, Suez University is a public higher education institution located in the city of Suez. Officially accredited and recognized by the Ministry of Higher Education, Egypt, Suez University is a coeducational higher education institution. Suez University offers courses and programs leading to officially recognized higher education degrees in Information and Communication Technology among others.</p> <div style="text-align: center;">  </div> <p>The University of Suez has acquired in 2019 through the integrator Wahsh Engineering a CrossNET 40 intercom matrix with TP8116 user panels for coordination between workstations in Television Production training</p>	

<b>MAURITIUS</b>	<b>MAURITIUS BROADCASTING CORPORATION (MBC)</b>	
	<p>The Mauritius Broadcasting Corporation (MBC) is the national public broadcaster of the Republic of Mauritius, that is the islands of Mauritius, Rodrigues and Agaléga. The headquarters of the MBC is found at Réduit, Moka and it also operates a station in Rodrigues. The MBC programs are broadcast in 12 languages, notably French, Creole, English, Hindi, Urdu, Bhojpuri, Tamil, Gujarati, Telugu, Marathi, Mandarin/Cantonese and Hakka, it provides 17 television channels in Mauritius, 4 in Rodrigues and 2 in Agaléga and 7 radio channels</p> <p>In 2019 it commissioned the Italian integrator ARET to build two OB Van for outdoor television production. Each OB Van has been equipped with an Intercom CrossNET 72 matrix that connects via IP to 4 TP8116 user panels. An Olympia 3 commentator unit has also been included, which communicates with the CrossNET matrix for coordination purposes and with a Netbox 32 AD terminal for live audio connectivity. It has also incorporated into each system a 6000 series concentrator to facilitate communication with camera operators through CCUs.</p>	

<b>SOUTH AFRICA</b>	<b>TELEMEDIA</b>	
	<p>Telemedia was founded in 1981 with a focus on the supply, installation and service support for radio and television broadcasting equipment in South Africa. Since then, Telemedia has evolved into a broad-based media broadcast facility providing a sophisticated and versatile product range. Its strategy to invest in infrastructure ensures that they have acquired state-of-the-art equipment in Satellite transmission, radio and television signal distribution, microwave and SNG services, studio production services to mention a few of our areas of expertise.</p> <p>The integrator company has acquired an intercom matrix TB 3000 with 12 ports in 2016, with belt packs BP5004, BP6000 and BP3004. Also rack user panels BS 3004 and concentrators for Camera CCU. The end client is a TV Station.</p>	



## AMERICAs

<b>ARGENTINA</b>	<b>CUYO TV – CANAL 9</b>	
	<p>The Channel 9 of Mendoza, more known as Channel 9 Televida, is an Argentine open television channel affiliated to Telefe that broadcast from the city of Mendoza. Use a TB3000 intercom with 4000 series panels</p>	
<b>ARGENTINA</b>	<b>NONSTOP</b>	
	<p>Founded in 1983, Non Stop produces several pay-per-view TV channels, in addition to programming open TV and digital media, all done in several different countries.</p> <p>The company acquired before 2015 a TH5000 intercom matrix with TP4000 series user panels.</p>	
<b>BRASIL</b>	<b>IGREJA UNIVERSAL DO REINO DE DEUS</b>	
	<p>The Universal Church of the Kingdom of God (IURD) is a religious organization that emerged from the church founded on July 9, 1977 by Edir Macedo in Rio de Janeiro, Brazil.</p> <p>The IURD is also known by the name of its television show, Stop Suffering</p> <p>The church has acquired 1 CrossNET 40 intercom matrix with 8000 series user panels for the coordination of its television programs.</p>	
<b>BRASIL</b>	<b>RPC FOZ DO IGUAÇU</b>	
	<p>RPC Foz do Iguaçu is a Brazilian television station based in Foz do Iguaçu. It belongs to the Paranaense Communication Group (GRPCOM, formerly RPC Group) and retransmits Rede Globo programming, in addition to broadcasting Paraná TV and other local RPC TV programs, generated directly from Curitiba.</p>	

	<p>Its signal reaches some cities of Paraguay, as well as some points of Argentina, which are part of the border with Brazil. Operates on channel 5 (35 digital UHF).</p> <p>The RPC Foz do Iguaçu television acquired a few TH5000 intercom matrixes before 2014 for several cities in Brazil. These units are provided with 4 analogue (4-wires) ports for external audio sources, digital ports and IP ports. The matrixes were integrated with 4000 series panels.</p>	
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<p><b>BRASIL</b></p>	<p><b>SISTEMA JORNAL DO COMMERCIO DE COMUNICAÇÃO</b></p>	
	<p>Sistema Jornal do Comercio de Comunicação is a Brazilian media conglomerate with headquarters in Recife, Pernambuco.</p> <p>In 2019 AEQ has installed an intercom system as the main communications centre of their facilities for the production of TV Jornal and TV Jornal Caruaru.</p>  <p>The system includes, among other elements, a CrossNET 72 matrix, 11 TP 8116 user panels, and 4 wireless terminals Xplorer.</p> <p>The integration was carried out by Line UP, the Brazilian AEQ distributor.</p>	

<p><b>BRASIL</b></p>	<p><b>SOMPUR SAO PAULO – BANDNEWS FM SAO PAULO</b></p>	
	<p>BandNews FM São Paulo is a radio station based in the city of São Paulo. Its studios are located at the headquarters of the Bandeirantes Communication Group.</p>	





In 2017, they developed an ambitious audio and communication project for their station with AEQ. Two BC 2000D audio matrix frames are interconnected by 1000-channel synchronous links that communicate with the IP network through 16 64-channel AoIP cards from each matrix. These inputs and outputs are distributed throughout the station through 32 AoIP Netbox 32 interfaces.

This system shares the network with a CrossNET 168 intercom system via IP with 12 TP8116 panels, 4 TP8416, 10 virtual panel licenses for PC or Ipad and inputs for telephone and ISDN interfaces

The Project was directed by the Technical Director of the station, Engineer Jean Pierre Zanetti



**BRASIL**

**SUPER NOTICIA**

Super Noticia FM is a Brazilian radio station based in Belo Horizonte, covering the state of Minas Gerais in the 91.7 FM band using a central 30KW transmitter. It is part of the important editorial group Sempre Editora, which is also the owner of two newspapers.





In 2017 AEQ has installed a CONEXIA intercom system as the main communications centre of the facilities.

AEQ's largest-capacity Intercom System CONEXIA has been selected to cover the intercom requirements of all working areas in the station, as on the same platform, Super Noticia obtains a professional audio router with broadcast quality (20 Hz to 20KHz and 24bits depth) and a complete Intercom system. As mentioned, all is integrated in the same platform and shares common hardware, what simplifies operation and maintenance, allowing for a complete flexibility in the system's final configuration, making it fully adaptable to the particular needs of the station, at every moment.



Super Noticia's Technical Manager, Carlos Penido,




The station has studios in three locations within the same city, three controls in the main location, a studio at Independencia and another one the Mineirao Stadium, linked by long-distance fiber optics. The technical challenge was to install intercom and exchange audio between all the studios.

The central router consists on a pair of Conexia TM 8000 controllers and an AEQ BC2000D matrix chassis including redundant power supply and controller modules, as well as two backup DSPs, three Dante Audio over IP cards and several other analog and digital input/output cards for local services within the control room. The complete system has 240 ports that may be used both for Intercom services (using Dante IP protocol) or central audio routing using AES 67 standard, with the most varied audio formats: analog, AES or SPDIF digital, and even AoIP using DANTE operating in AES-67 mode against Livewire+.


A TP 8116 16-key intercom panel is present at each studio, configured to operate both as IFB and coordination. The panels are routed to a bank of 10 audiocodecs for coordination with external services.




Everson Franco, technical Manager of the Super Noticia project

<p><b>BRASIL</b></p>	<p><b>TV ASA BRANCA</b></p>	
	<p>TV Asa Branca is a Brazilian television station based in Caruaru, a city in the state of Pernambuco. It operates on channels 8 VHF and 17 UHF digital, and is affiliated with Rede Globo.</p> <p>The private television has acquired the intercom matrix TH 5000 before 2015 with TP 4016 user panels</p>	
<p><b>BRASIL</b></p>	<p><b>TV COROADOS</b></p>	
	<p>It's a television station Brazilian installed in Londrina, in the interior of Paraná . Property of the "Rede Globo".</p> <p>The TV acquired an intercom matrix TH50000. The matrix was provided with 4 analogue (4-wires) ports for external audio. The audio source and destination are in digital ports and IP ports. The supply included TP 4016 user panels</p>	
<p><b>BRASIL</b></p>	<p><b>TV PARANENSE</b></p>	
	<p>The TV station opened in Paraná in 1960 with the name of Paranaense TV , channel 12. The TV is now property of the "Rede Globo".</p> <p>The TV station acquired a few intercom matrices TH50000 for different cities in the country with TP 4016 user panels</p>	



<p><b>BRASIL</b></p>	<p><b>TV SOROCABA</b></p>	
	<p>TV Sorocaba is a Brazilian television station based in Sorocaba, a city in the state of Sao Paulo. It operates on digital channel 35 UHF, and is affiliated with SBT, broadcasting its programming to Sorocaba and nearby cities. The station belongs to the Vanguard Communication System, which also includes the Vanguarda AM and Vanguarda FM radios, founded by businessman Solomon Pavlovsky.</p>  <p>TV Sorocaba acquired in 2019 a CrossNET Intercom System. The system includes, among other elements, a CrossNET 72 matrix, 10 TP 8116 user panels, one TP 8416 user panel, and a wireless System Xplorer.</p> <p>The integration was carried out by Line UP, the Brazilian AEQ distributor.</p>	


<p><b>COLOMBIA</b></p>	<p><b>TELECARIBE</b></p>	
	<p>Telecaribe is a Colombian open television channel that broadcasts in the Caribbean region of that country from its broadcast centre located in the city of Barranquilla.</p> <p>The Television has acquired 1 intercom matrix CrossNET 72. With 5 wired user panels TP8116, two TP 8416 and a wireless system with 6 Xbp. The project was integrated by the AEQ's distributor AVCom Colombia.</p>	

<b>COSTA RICA</b>	<b>MULTIMEDIOS</b>	
	<p>Multimedios Televisión is a Mexican open television network from Monterrey, Nuevo León.</p> <p>It initiated transmissions in 2017 in Costa Rica broadcasting on channel 8.1 that transmits the Costa Rican signal and 8.2 that retransmits the Multimedia plus signal.</p> <p>Multimedios Costa Rica has acquired 1 intercom matrix CrossNET 40.</p> <p>The workstations are equipped with 3 BP3004 wireless belt pack, 8 TP4016 hybrid user panels and a concentrator for camera CCUs. The project was integrated by the Company Comunicaciones Digitales de Entretenimiento SA de CV.</p>	

<b>ECUADOR</b>	<b>ECTV TELEVISION PUBLICA ECUADOR</b>	
	<p>Ecuador TV is the country's public TV channel. It started back in 26<sup>th</sup> October 2007 and it is the first public TV channel in Ecuador. ECTV broadcasts contents from domestic and foreign independent producers.</p> <p>The well-known international integrator Hitachi was granted with the largest technical renewal project in the history of the channel, which has relied again on AEQ technology.</p> <p>ECTV integrated a large CONEXIA system in their new facilities, as well as 3 intercom matrixes TH50000, 2 of them with 24 ports and the other one with 48 ports, in order to provide service to all the production centers, technical rooms and production areas of the TV.</p> <p>The intercom systems counts with 34 Intercom panels in rack format, 32 wired belt packs and 23 XBP wireless belt packs, enabling nearly 100 people in 9 different TV workplaces to communicate and coordinate. The whole wireless intercom system operates in the 5 GHz WiFi band.</p> <p>The complete project has been led by Hitachi Kokusai technical team in collaboration with Electrolab, AEQ's local partner in Ecuador. Mr. Roberto Tejero was AEQ's technical responsible for the startup, configuration and training of the whole installation.</p>	






<b>EL SALVADOR</b>	<b>TCS</b>	
	<p>Telecorporación Salvadoreña (TCS) is a conglomerate of Salvadoran media founded in 1985 from the union of channels 2, 4 and 6 under the same legal partnership by Boris Eferski.</p>  <p>TCS has expanded its Conexia system in 2019 by adding 3 TP 8416 desktop panels, an analogue input and output card and a wireless system with 4 Xplorer belt packs</p>	


<b>HONDURAS</b>	<b>LIM COMUNICACIONES - HUMBERTO LAITANO</b>	
	<p>Lim Comunicaciones is a leading distribution and integration company in Honduras for broadcast technology.</p> <p>The company has acquired in 2017 one intercom matrix CrossNET 40 with 8 TP4016 user panels, 3 belt packs BP3004 and two concentrators for camera CCUs</p>	

MÉXICO	CLARO SPORTS	
	<p>Claro Sports is a Latin American television channel of Mexican origin and is owned by América Móvil, which bases its programming on sports. Claro Sports had a very successful operation of the Olympic Games in Rio de Janeiro which was the one and only official broadcaster.</p> <p>Claro Sports used a full bandwidth AEQ ConeXia intercom system with DANTE™ AoIP multi-channel networking simultaneously and on the same BC2000D matrix platform and that assured a perfect coordination between Claro Sports’ talents at the commentary positions of the different venues and technical personnel both in Rio and Mexico. The IBC installations also counted on 10 Intercom user-panels Kroma TP8116 series from AEQ connected through a DANTE™ multi-channel AoIP Network. Further, the ConeXia Intercom system was equipped with analogue 4-wire interfaces to connect a total of 42 intercom devices such as CCU’s, Belt-packs and dedicated IFB’s.</p> <p>For control and mixing of the International Sound packages delivered by OBS in MADI format with the Spanish Language Commentary audio, Claro Sports used an AEQ ARENA digital console with 15 motorized faders and capability of up to 9 pages. A multi-channel DANTE™ AoIP network was installed to link the mixing console with the main Audio Matrix and the ConeXia Intercom System, including the TP8116 User Panels installed in the Continuity control and the two live TV sets of Claro Sports at the IBC and their studio in the Olympic Park.</p> <p>For the nex Summer Olympic Games in Tokio 2020, they will use again the same infrastructure, plus 6 offtube cabins with audio consoles Capitol and specific recording cabins with Netbox4MH,vía Dante.</p>	
		

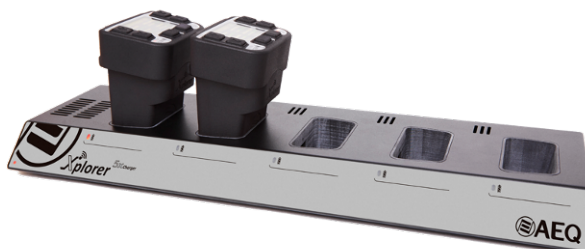


<b>MEXICO</b>	<b>GRUPO IMAGEN PUEBLA</b>	
	<p>Imagen Televisión is a Mexican open television commercial chain. It is owned by Grupo Imagen. Since August 2019, it is the seventh national television network in Mexico, with coverage of 51.6% of the Mexican territory.</p> <p>The company has acquired in 2019 an Xplorer Wireless Intercom System for its studios in Puebla as an expansion of its current system.</p> 	

<b>MEXICO</b>	<b>MULTIMEDIOS</b>	
	<p>Multimedios Televisión is a Mexican open television network from Monterrey, Nuevo León. The chain has local broadcasting stations in the states of Tamaulipas, San Luis Potosí, Coahuila, Sonora, Durango, Guanajuato, Mexico City, Monclova, Puebla de Zaragoza, Ciudad Juárez, Durango, Guadalajara and Chihuahua in Mexico, as well as in the states of Texas, Utah and California in the United States.</p> <p>The company has acquired 6 intercom matrixes CrossNET 72 installed in Mexico city and other local stations and a CONEXIA in the central station in Monterrey.</p> <p>In the nearly future, all Crossnet systems will be interconnected vía Dante (where the IT infrastructure allows) or vía codec AEQ.</p>	

<b>MEXICO</b>	<b>SECUOYA – RIOT MEXICO</b>	
	<p>Grupo Secuoya is a leading Spanish company in the creation, production and distribution of audiovisual and digital content.</p> <p>The company has production facilities in Colombia, Chile, Peru, Mexico and the United States, as well as having an executive presence throughout the Spanish national territory.</p>	





Secuoya has acquired for Riot Mexico, a leader company in Esports entertainment, a CrossNET 72 matrix for the main arena, 16 TP 8116 user panels, 9 Xplorer wireless belt packs with two multiple chargers and 4 WiFi access points. Two 6 to 1 concentrators were also supplied for communication with camera operators and intercommunication with audio consoles via Dante and 4wired interfaces.

**MEXICO**

**TELEMUNDO**

**Telemundo** (formerly **NetSpan**) is an American Spanish-language terrestrial television network owned by Comcast through NBCUniversal. It is the second-largest provider of Spanish-language content in US, with programming syndicated worldwide to more than 100 countries in over 35 languages. Telemundo has a large audience and an important operating base in Mexico

Telemundo has a TH5000 for locations intercommunication, migrating to Crossnet in 2018.

In 2019 Telemundo use AEQ Xplorer wireless intercom to broadcast “El Grito” from Mexico.

Xplorer successfully provided Telemundo communications during the broadcasting of “El Grito” ceremony at the Zócalo, gathering tens of thousands people

Every September 15th in the evening, the Government of the United Mexican States organizes a public ceremony to commemorate the Mexican Independence at the Zócalo Capitalino square, located in the historic centre of Mexico City.

This square, considered the world second largest central place, occupies a rectangle area of approx 46,800 square meters. El Grito event congregates an estimated 130,000 people.

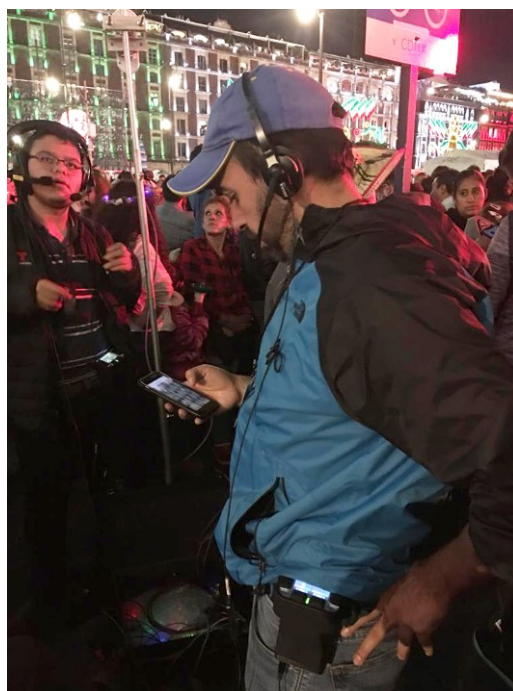
To cover this event, Telemundo México, with Gerald Malpartida as the Head of Broadcast engineering, used the new AEQ Xplorer for the communications to Miami, FL - USA.



To achieve that, its engineering staff deployed a technological infrastructure that, despite the large amount of people present, allowed securing bidirectional audio service for the communications between the reporters located in the Zócalo square with the Miami HQs, through high-quality links.

Telemundo's neuralgic communications centre at the Zócalo was implemented at the top floor of a building known as the "Jewellery Centre", located in the front area of the central square. From this point, was established a VPN link with the central headquarters in Miami and providing connectivity with the studios in Mexico.

Once the VPN connection was established, AEQ matrix, placed in Mexico, operated with TP8000-series user panels to communicate with the field correspondents and the Miami intercom system. The Xplorer backpacks were principally used to receive IFB from Miami and were connected to the matrix through two access points located in the Zócalo square.




It is worth mentioning that using only two access points could give service to 4 Xplorer units with 5G technology and providing high quality audio and low delay. The system was able to cover almost entirely the total square area:

	<p>Technical staff and reporters could easily move in field, thanks to the “roaming” function that the Xplorer pack offers.</p> <p>Also, a full duplex Audio link for backup purposes was established using a Phoenix Venus 3 and Phoenix Alio IP codecs: the portable codec was deployed at the Zócalo square to provide service to the personnel located there.</p>	
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<p><b>PERÚ</b></p>	<p><b>CONGRESO DE LA REPUBLICA – TELEFONICA</b></p>	
	<p>The Congress of the Republic of Peru has its own television to record official events and generate the institutional signal to deliver to television operators interested in the events that take place there.</p> <p>The Spanish integrator Telefonica Servicios Audiovisuales (TSA) has installed one intercom matrix in Peru in the CONGRESO DE LA REPUBLICA TV.</p>	



The CrossNET matrix was provided with TP 8116 user panels and six Xbp wireless user panels. The installation was supervised by Mr Armando Patroni, Technical Chief of the Congreso de la República.

<b>UNITED STATES</b>	<b>NPR / BBC</b>	
	<p>NPR and BBC Radio “simulcasted” on BBC World Service, Radio 4, 5Live, BBC Local Radio and partner stations for a continuous 12 hour “America Decides 2016” Election Special programme, with an estimated audience of 250 million listeners. Additional output</p>	

on Radio 4 and World Service was also broadcasted before and after the election special.

BBC Production Operations provided temporary broadcast facilities in Washington D.C for the broadcasts consisting of two fully featured broadcast studios on different floors and the ability to receive and route more than 30 contribution circuits from the entire country. All audio was distributed and routed throughout the facility using the Dante™ AoIP network protocol using multiple vendors' equipment, connected by simple CAT5e cable, Ethernet switches and fibre optic links between several floors.

If we compare analogue based systems used in previous years, with the new AoIP distribution, the result is: a dramatical reduction of hardware and manpower needed plus a huge reduction in required kit to be freighted. This solution brings a huge saving in hardware and transport costs.



Matthew Page of BBC Production Operations: "Engineering and Production staff needed to talk to presenters, contributors and each other quickly and easily. Using the AEQ CrossNET [intercom] matrix and AEQ TP8000 user panels we were able to create the 80+ IFBs and many 4-wire intercom circuits we required without having to plug in any extra copper audio cable, we just needed to connect the matrix and panels to the audio network with a few CAT5e cables."

The main studio had 16 switch able outside sources - each with a mix-minus IFB feedback, plus 7 talent and guest positions – each one provided with "talkback" sent from production studio. The second studio had 10 switch able outside sources and 4 talent / guest positions.

**BBC**  
**RADIO**



**BBC**  
**WORLD**  
**SERVICE**

**BBC**  
**RADIO** **4**extra

**BBC**  
**RADIO** **5**live  
sports  
extra


**BBC**  
**LOCAL RADIO**






<b>UNITED STATES</b>	<b>WGENTV</b>	
	<p>WGEN-TV (GENTV), the independent channel of Miami, part of the Caracol Televisión Group, the international television network, with locally produced news, entertainment programs, soap operas and other programs that they have been developed for the different Latin American audience of South Florida.</p> <p>In 2014, they were installed two intercom systems in two different television studios in Florida, each system based on a 48-port Kroma-AEQ TH 5048 matrix. The first user panels ever used in the system, were the TP4016. The systems have been growing and recently upgrated with TP8116 and TP8416 panels, improving the performance of the system until the full capacity of the matrix.</p>	
<b>URUGUAY</b>	<b>RIDEL</b>	
	<p>The company acquired 1 intercom matrix TH5000 in 2014 and it was installed in an OBVan with TP 4016 user panels</p>	


## ASIA


<b>BANGLADESH</b>	<b>RTV BANGLADESH</b>	 আজ এবং আগামী
	<p>RTV is a satellite television channel broadcast from Bangladesh. It was launched on 26 December 2005. The broadcaster has installed a TH5024 Intercom System with 8 TP3016 stationary rackmounted panels, 6 BP3004 belt packs and a concentrator for CCU in 2016 after 10 year satisfactory experience with previous Kroma analogue intercom systems.</p>  <p>The system was delivered and installed by the integrator Benchmark Broadcast Systems. Based in Singapore – and several offices in Bangkok, Chennai, Delhi, Dhaka, Kuala Lumpur and Manila – Benchmark Broadcast is speccialized in design, installation and commissioning TV Stations and channels all across Asia.</p>	




<b>INDIA</b>	<b>ABP NEWS</b>	
	<p>ABP News is an Indian Hindi news channel owned by ABP Group. Legacy KROMA TELECOM Analogue and Digital Intercom Systems are working in ABP News channel in the cities of Kolkata and Ahmedabad.</p>	




INDIA	ESPN	
	<p>Sony ESPN is an Indian sports pay channel which is a joint venture between ESPN Inc. and Sony Pictures Networks India, it was the second sports television channel launched by the company after Sony Six, providing and producing content such as cricket, football, tennis, NBA basketball, badminton, field hockey, golf, rugby union and Formula E .</p> <p>In 2018, a Kroma by AEQ Intercom system were installed in Mumbai studios. The system features a TB3012 matrix with TP8416 panels and a Systel IP 4 in order to manage the VoIP telephone lines.</p> 	


INDIA	UTTAR PRADESH TV NEWS - BHARAT SAMACHAR TV	
	<p>UP NEWS – BSTV is a leading 24-hour Hindi-language regional news channel and it's currently the flagship asset of Bharat Samachar TV founded by well-known TV personality Mr. Brajesh Misra.</p> <p>BSTV has acquired an Intercom Party-Line System Easynet with 5 stationary panels and 6 belt packs. The local integrator RNINE delivered and installed the system.</p>	

INDIA	MAA TV	
	<p>Star Maa is an Indian pay channel based in Hyderabad, Telangana. This privet broadcaster is owned by Star India, a subsidiary of The Walt Disney Company India.</p> <p>Legacy KROMA TELECOM Analogue and Digital Intercom Systems are working in MAA TV channel in Hyderabad.</p>	

INDIA	NTV	
	<p>NTV is an Indian regional Telugu news channel launched on 30 August 2007 along with South India's first devotional channel Bhakti TV by Rachana Television Private Limited (RTPL). It is known as South India's first devotional channel.</p> <p>Legacy KROMA TELECOM Analogue and Digital Intercom Systems are working in NTV channel in Hyderabad.</p>	
INDIA	SAI PRASAD MEDIA	
	<p><b>Prasad Studios and Prasad Film Labs</b> are motion picture host production studios based in Hyderabad, India, founded by Prasad Group in 1956. This group is the largest chain of post production facilities in India with a total of 12 OBVans located in all the major film production centres of India</p> <p>Legacy KROMA TELECOM Analogue and Digital Intercom Systems are working in Sai Prasad Media in the city of Noida</p>	
INDIA	TV5 NEWS	
	<p>TV5 NEWS is a 24-hours Telugu-language news channel in India</p> <p>The broadcaster has installed a TH5000 intercom matrix with 24 ports and 13 TP3016 stationary user panels among 4 BP 3004 belt packs. This system was installed in 2017 at Hyderabad after more than 10 years satisfactory experience with previous Kroma digital intercom systems.</p> <p>The integration was carried out by the local integrator Rana Broadcasting Private Limited</p>	




<b>INDIA</b>	<b>TV9</b>	
	<p>TV9 is an Indian satellite television news network that provides 24-hours news coverage in Telugu language. TV9 was started in 2004 and is owned by Associated Broadcasting Company Private Limited (ABCL) which has seven television stations in different languages in India.</p> <p>Legacy KROMA TELECOM Analogue and Digital Intercom Systems are working in TV9 channel in Hyderabad.</p>	

<b>INDIA</b>	<b>V6 NEWS</b>	
	<p>V6 News is an Indian Telugu-language cable news and current affairs television channel in the Indian State of Telangana. The 24-hours channel is journalist-driven, with a tagline News as it is. It targets over 120 million Telugu people in India and overseas.</p>	

	<p>V6 NEWS has installed 1 intercom matrix at Hyderabad. The unit was provided with 4 analogue (4-wires) ports for external audio sources, digital ports and IP ports.</p>	
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<p><b>THAILAND</b></p>	<p><b>RS TV</b></p>	
	<p>RS is a Thai Leading entertainment company. Current business of RS features: Music Business, Show Business and Media Business such as Radio and Television. Within TV the broadcaster offers 1 Digital Free TV "Channel 8", the first run drama and the popular variety show and 4 leading satellite TV channels.</p> <p>At the end of 2019, RS has acquired for its television production centre in Bangkok, an Intercom System based on a CrossNET 104 AoIP matrix, TP8116 rack user panels, 3 TP8416 desktop user panels, 6 Xplorer wireless terminals, and 3 Netbox 8 interfaces for analogue and digital audio.</p>  <p>The integration has been carried out by the local integrator North Star Equipment CO Ltd with the support of AEQ technical services.</p>	

<p><b>VIETNAM</b></p>	<p><b>HO CHI MINH CITY STADIUM (Thong Nhat)</b></p>	
	<p>Thống Nhất Stadium or Reunification Stadium is a multi-purpose stadium located in Ho Chi Minh City in Vietnam and is mainly used for soccer and athletics. The stadium opened in 1960 with a capacity for 25,000 people.</p>	

The Ho Chi Minh City FC and Xuan Thanh Saigon FC clubs of the V-League play their matches here.



EMTV PTE from Singapore delivered and installed 1 intercom matrix CrossNET **104** at the stadium of Ho Chi Minh city in Vietnam. The intercom system is integrated in an Audio over IP network with other AEQ Dante capable equipment like **AEQ Olympia 3** Commentary Unit and **AEQ Netbox 4 MH**. All these equipment provide Commentary Facilities and Voice injection systems interconnected with other Dante AoIP facilities at the stadium. This AoIP installation gives place to one of the more modern audio and video infrastructures for venues.

**VIETNAM**

**VINH PHÚC YEN PROVINCE RADIO AND TV STATION**

Vĩnh Yên is the city capital of Vĩnh Phúc Province, in the Red River Delta region of northern Vietnam. The population is over 76,000 people.

Vinh Phuc Radio and Television Station is a non-business unit of Vinh Phuc People's Committee, functioning as a press agency of the Party Committee and Provincial Government; Vinh Phuc Radio and Television Station is under the state management of the press, transmission and broadcasting of the Ministry of Information and Communications.










The Vietnamese integrator Broadcasting Development JS Company has developed a Project to set up the studios of Vinh Phuc Radio and Television Station that serves the province. The television set incorporates among other AoIP and AEQ communications equipment, such as a Capitol console and a Netbox 8 interface as well as communications equipment such as Mercury, an Intercom system for TV production.

The Easynet intercom system operates in part-line mode based on a BS 3004 user terminal in the realization control, 5 BP 3004 beltpacks and an 6000 intercom audio hub for cameras,

## EUROPE


<b>ALBANIA</b>	<b>RTV</b>	
	<p><b>Euro news</b> is a European pay news network, based in Lyon, France. The network aims to cover world news from a pan-European perspective.</p> <p>In 2018 The Greek integrator Ariston has installed a TH5012 matrix for Euro news Albania with three TP 8116 user panels and two Xbp wireless beltacks.</p>	



<b>ANDORRA</b>	<b>RTVA</b>	
	<p>Ràdio i Televisió d'Andorra, AKA RTVA, is the public broadcasting company of the Principality of Andorra. It was founded in 2000 and currently manages a television channel, two radio stations and a website. RTVA is a member of the European Broadcasting Union since 2003</p> <p>In 2018, RTVA acquired a CrossNET 72 matrix, 10 TP8116 panels, 4 Xbp beltacks and a 4-key base stations BS3004. They also installed two virtual panel licenses as PC applications. The installation, totally IP, was integrated by NRD Multimedia, official distributor of AEQ with headquarters in Barcelona.</p>	

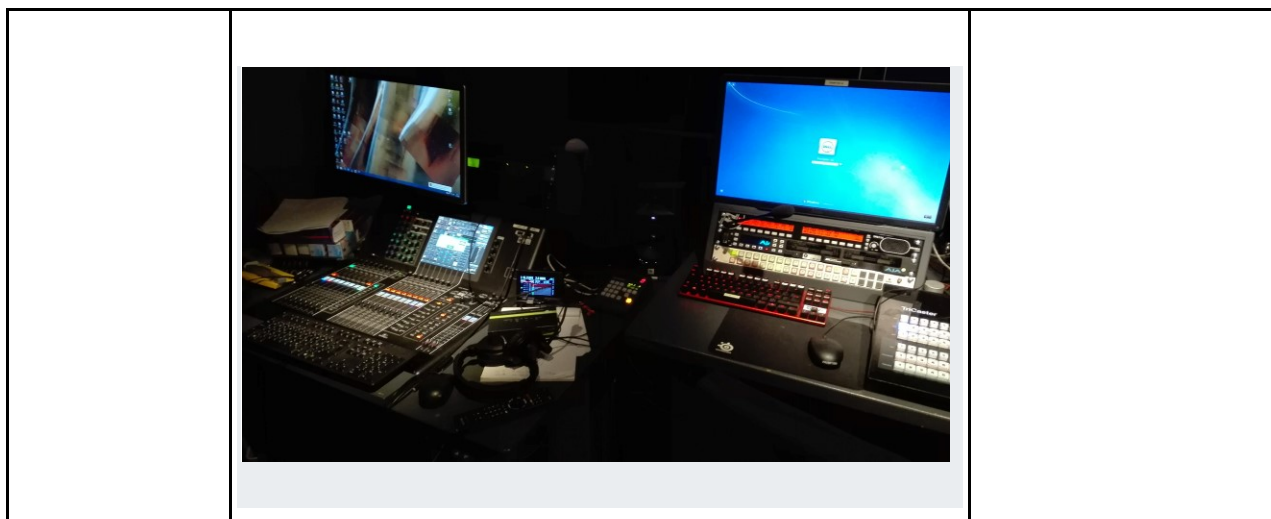






BELARUS	MINSK STADIUM	
	<p>The Sport Broadcaster ISB was appointed as the Host Broadcaster for the Minsk 2019 2nd European Games and operations in Belarus are currently underway.</p>  <p>Mr Esteban Galán, Head of Technical Operations at ISB, explains that the deployment of technical resources for the Broadcasting involve, among other things, AoIP Network interfaces, Intercom Systems, Audiocodex and Commentary Units for the Audio and communications, and Broadcast Monitors for the production control.</p> <p>The intercom system deployed by ISB is an AEQ CrossNET system with Multi-channel AoIP with broadcast quality audio for the communication channels. A total of around 45 User panels have been installed, most of them in the IBC and a few at the most important competition venues. The Dante Network allows for the to carry IFB's originating from basically any point in the network and can be anything from International Sound to Mixed zone feeds or Commentary Guides for the Off Tubes.</p>	 

CYPRUS	SIGMA TV	
	<p><b>Sigma TV</b> is a commercial network in Cyprus. It is a private channel and is currently the first-rated channel in Cyprus.</p> <p>In 2018, the Greek integrator Ariston has installed in the Cypriot television station Sigma TV an intercom system with CrossNET 40 matrix, 3 TP8116 user panels and a Venus 3 audio codec to coordinate the external links</p>	

FINLAND	TV 7	
	<p>TV7 started broadcasting in December 2003. The TV7 Channels are Christian content and provides services in Finland, Estonia and Sweden as well as a daily production in Israel.</p> <p>The Television has acquired 1 intercom matrix CrossNET 72, including some TP8116 user panels and wireless terminals Xbp. They were installed by our dealer LIGHTHOUSE NETWORK LTD at the city of Helsinki.</p>  <p>The Company is constantly seeking to optimise operations. Otsi Salminen, Sound Engineer at the station and its Technical Manager, Juhani Ojares, were struggling with the Intercom and IFB system of the Station until they came across the AoIP Dante™ Intercom Matrix from AEQ. They immediately saw the potential and took the decision to acquire a 72 Port System with user panels and Wireless Belt-packs.</p> <p>The possibility to interconnect the User Panels and the remainder of the Audio equipment of the station makes the flexibility in terms of monitoring IFB sources and communications almost limitless and allows for the production to become really flexible and dynamic.</p> <p>The System is deployed throughout the stations three sets and one Chroma-key. The Station has been aiming to partly automate the sets so as to have the personnel to focus on the actual production rather than the technology. This is where the AoIP networking capabilities of the Intercom Matrix and associate panels become really useful. The true plug-and-play nature of the Dante™ AoIP system makes it really easy to add, remove or modify any of the signals available in the Intercom System.</p>	



<b>FRANCE</b>	<b>TELEMEDIA</b>	
	<p>Telemedia Group offers innovative solutions in France and around the world in several key telecommunication sectors and in particular VoIP.</p> <p>The company has acquired 1 intercom matrix CrossNET 72 installed in Paris.</p>	

<b>FRANCE</b>	<b>EUROCOM</b>	
	<p>As an importer, distributor and system integrator in the world of radio and TV in France and abroad, Eurocom Broadcast is one of the leaders in its market and has become the key contact for all radio and TV -related projects. The strong points are equipment solutions, engineering, project management and the realization of turnkey studios. Based in Ile de France, the availability of its collaborators makes it possible to intervene everywhere in France and in the world.</p>	



At the end of 2019, they acquired a matrix-free Xplorer wireless intercom system for a customer in France, with three wireless terminals working in a 4-channel Party-Line mode. It is operating in combination with three BS3004 rack user panels of the Easynet system.

**GERMANY- UK**

**2018 EUROPEAN CHAMPIONSHIPS**

The EUROPEAN CHAMPIONSHIPS 2018 took place during the first 10 days of August 2018.

The first edition of the European Championships was held on two different main locations: Glasgow and Berlin, including 16 different venues, amongst them the Berlin Olympic Stadium.



A Kroma by AEQ IP Intercom System was been installed to cover the event's technical and production coordination requirements, offering 104x104 input and output ports.

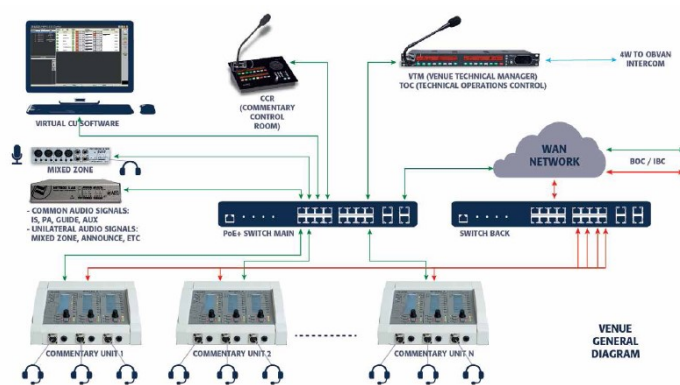




It was been deployed across the different venues in Scotland and Germany, as well as at the Broadcast Operation Centres in Glasgow and Berlin.

This Intercom system was expanded whenever required, using Netbox 4MH interfaces, that were already available at the venues, or even using Olympia 3 commentary units that demonstrated great flexibility to cover unexpected audio and communication routing needs.

The control rooms at BOC and IBC were provided with rack-mounted TP8116 panels, just the same as in the venues' TOCs, which were located either outside the building or in mobile units.




General venue schematic diagram

On the other hand, desktop TP8416 panels were installed in the CCR and other particular places. Even some Olympia 3 Commentary Units were configured so its first channel could be used as an intercom panel during the start-up phase. 40 intercom panels were installed in total: 21 TP8416 (table-top) and 19 TP8116 (rack-mount). Among them, the 29 panels in UK venues were connected to the matrix using Dante AoIP, while the 11 panels deployed at the IBC and venues in Berlin -located more than 1000km away from the matrix (installed in Glasgow)-, were connected to it using VoIP circuits, occupying little bandwidth and being less sensitive to network delays.




	<p>In order to integrate the event's coordination general Intercom System with the particular ones provided by third-parties, installed by the organization or the Right holders themselves at each TOC or mobile units in the different venues, 32 bridges were established, using 4-wire ports integrated in the Dante network, either from Netbox interfaces or using the second AoIP port provided by a user intercom panel, thus converting the 4-wire analogue circuits into bi-directional AoIP channels that were incorporated to the matrix just as additional intercom panels. This way, among the 16 existing venues, 12 of them, located within 100km, were connected by Dante AoIP, while the IBC at Berlin and its three venues, located more than 1000km away, and were linked by VoIP.</p> <p>Each IBC/BOC included 7 panels coordinating both the operation of the rest of venues and that of the incorporated one. 3 of them were used by the VTM (Venue Technical Manager), while the rest were used by the BVM (Broadcast Venue Manager) and the personnel in charge of the produced video quality control (Production Quality Control). The rest of venues were provided with 1 to 3 panels, plus a maximum of two more 4-wire communications, depending on the broadcast complexity of the sports competitions taking place there.</p> <p>Kroma by AEQ Intercom System panels can be configured in a totally flexible way, so pressing of each key unchains a customized wide range of actions in order to ease the coordination of any event.</p> <p>This way, all IBC/BOC panels at both locations could communicate with each other (any panel could talk to others within its local venue, but additionally any panel at the IBC/BOC at one location could talk to others at the other location). - In the rest of venues, each panel could talk to the rest of panels within the same venue and call to any panel at IBC/BOC. - On the other hand, any panel at IBC/BOC could establish communication with any panel in any venue and with the 4-wire ports installing in all mobile units. - 4-wire ports in the mobile units entered in IFB mode to all BVM (Broadcast Venue Manager) panels at IBC/BOC, so when the microphone of the connected device was open, all panels could hear it simultaneously. - Additionally, specific and/or temporary programmings were made according to the needs of each covered event. - All communications were programmed in Push To Talk mode</p>	
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<b>GREECE</b>	<b>ALTER EGO TV</b>	
	<p>The Greek multimedia group Alter Ego, one of the leading in their country, in 2019 launched the One Channel television.</p> <p>Through Ariston, AEQ's distributor in Greece, they acquired an intercom system to coordinate four workstations equipped with TP 8116 user panel through a TH5024 matrix</p>	

<b>ITALY</b>	<b>ARET</b>	
	<p>Aret Video And Audio Engineering Srl was founded in 1976. The company's line of business includes the manufacturing of radio and television broadcasting and communications equipment. It is the largest integrator of studios and mobile television units in Italy and serves customers on several continents.</p> <p>ARET regularly uses intercom systems for its projects and also video monitors and other AEQ equipment</p> <p>For example : Intercom System for 6 HD Cameras DSNG OB Van with uplink system, with TH 5000 hybrid intercom matrix and TP 4116 user panels from Kroma by AEQ</p> 	

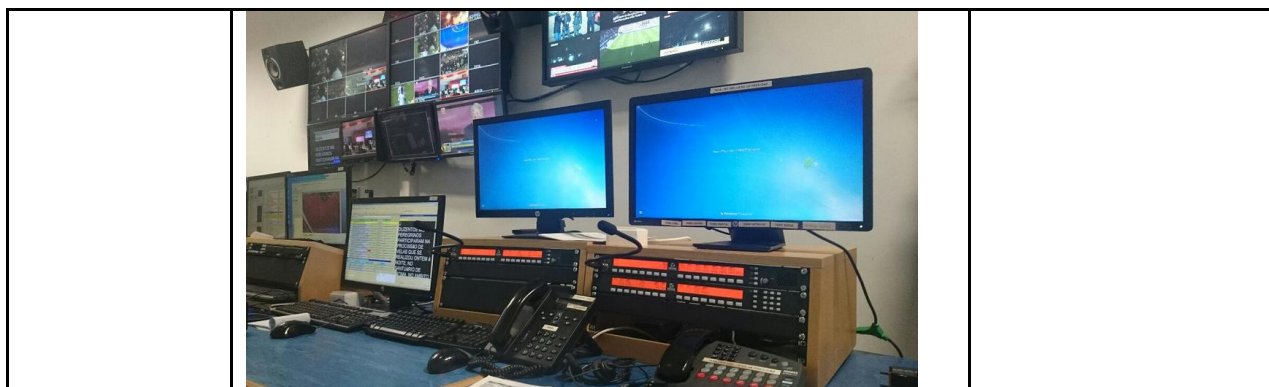
<p><b>ITALY</b></p>	<p><b>ITALIAN PRESIDENTIAL HOUSE TV STUDIOS</b></p>	
	 <p>There is a TV Station in the Presidential House in Italy. This TV Station was installed by ARET and includes an AEQ Intercom System, with CrossNET matrix and TP 8000 user panels.</p>	

<p><b>ITALY</b></p>	<p><b>RAI</b></p>	
	<p>Rai is the public broadcasting company in Italy. RAI currently manages 11 radio stations, 13 television channels, audiovisual production centres, multimedia services, broadcasting and advertising sales among other fields.</p> <p>RAI has its main production centre in Rome and the second, with large capacity, in Milan.</p> <p>In 2016 ARET, audio and video engineering specialise in turnkey projects and OB vans, acquired 1 intercom matrix CONEXIA for the Italian broadcaster RAI, for their Milano regional offices.</p> <p>The system is based on a modular Conexia matrix with dual controller and source, 5 multi-purpose digital cards, a linker, 40 analogue inputs and outputs, and two MADI links. 12 TP8116 user panels with 16 keys and another 3 with expansion up to 32 keys are incorporated.</p>	


<p><b>LITHUANIA</b></p>	<p><b>THE NATIONAL OPERA OF LITHUANIA</b></p>	
	<p>The National Opera and Ballet Theatre of Lithuania is located in Vilnius, the country's capital. It was built in 1974.</p> <p>It is quite a polyvalent building, due to its design and size (with up to 7 usable floors). It contains a main stage with capacity for up to 1700 spectators -including the stalls and galleries-, as well as many auxiliary stages for smaller events or rehearsals, and a very large technical space for assembly, illumination, sets, tailoring, dressing rooms, etc, as corresponds to the main Opera Theatre in the country.</p> <p>Back in 2016, the theatre's technical management decided to carry out a complex and ambitious technical renovation of the installations. AEQ CONEXIA intercom system was selected to implement the main internal intercom system of the building.</p> <p>The system provided includes 53 desktop and rack-mount intercom panels with 24, 16 or 4 keys (depending on their location), as well as 20 AEQ XPLOERER wireless belt packs and all the required network infrastructure such as IP switches, routers, WiFi access points and enough antennas to guarantee coverage in such a large building. The deployment of a large network with up to 50 access points was required to provide 100% WiFi coverage and centralized management of all the belt packs.</p>  <p>The complete project was coordinated with AVSystems-Lituania technical manager, Paul Egidijus, in coordination with AEQ-KROMA central services in Madrid, leaded by chief engineers Mario Rodríguez and Roberto Tejero</p>	


<p><b>POLAND</b></p>	<p><b>TELEWIZJA REPUBLIKA</b></p>	
	<p>The private television TELEWIZJA REPUBLIKA was created in 2012. A few years later, in 2016 technical management decided to acquire the TB3004 and TH5012 intercom matrices to give flexibility to their intercommunications system. The matrices were installed by our distributor DTS ST. LUBINSKI SP.</p>	

<p><b>PORTUGAL</b></p>	<p><b>CORREIO DA MANHÃ TV- CMTV</b></p>	
	<p>The newspaper “Correio da Manhã” belongs to the Cofina group that launched a general content TV channel in March 2013 called CMTV. This channel is available on the “Meo” platform. The channel is also present in Angola and Mozambique through Pay-per-View platforms and is very successful.</p> <p>When CMTV was expanding its technical facilities they acquired an AEQ-KROMA CONEXIA. The CONEXIA is replacing the TH5000 matrix since CMTV want to use the new system not only as a regular intercom system but also as a global audio solution for their operations.</p> <p>Further, the fact that CONEXIA is compatible with all KROMA branded intercom terminals and links made it possible to re-use 100% of the old panels from the TH5000 matrix including the GSM and telephone interfaces.</p> <p>One thing that should be emphasized with this expansion of CMTV’s technical installation, is the replacement of the traditional belt-packs with virtual panels compatible with Android or iOS platforms. The virtual panels are operating on a WiFi network configured with managed access points allowing for the terminals to move freely, or “roam” around the building with seamless transfers between the access points, ensuring the uninterrupted audio communication.</p> <p>In 2019 they updated their system by converting it to IP, sharing the Conexia router for intercom and broadcast audio. They have expanded the number of user panels with 4 new TP8116 and two TP8416. They have also incorporated a SystelSet IP VoIP System with two SystelSet + terminals and a Systel IP16 core for the coordination of outdoor events.</p> <p>The entire project has been piloted by the technicians in charge of Correio da Manhã, Mr. Ricardo Lima, and Mr. Ricardo Matias in collaboration with the AEQ’s technical team leaded by the engineer Mr. Mario Rodriguez. The integration has been carried out by the Portuguese Company DEC Imagem</p>	



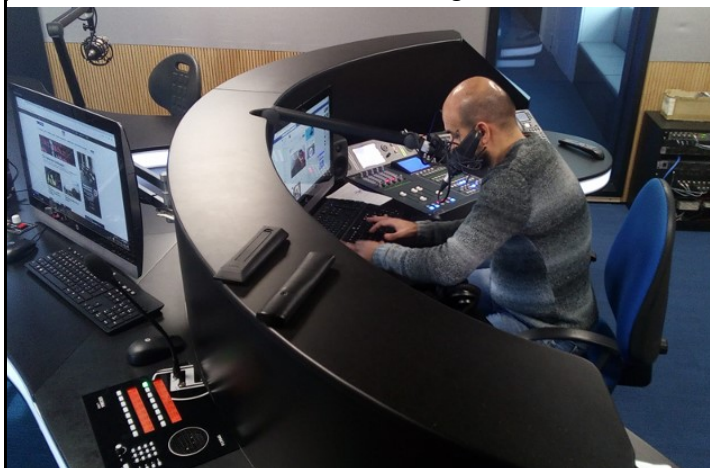
<b>PORTUGAL</b>	<b>MEDIA BURST SERVIÇOS EMPRESAS IURY TV</b>	
	<p>The Portuguese integrator Media Burst Serviços Empresas, of the audiovisual group Mediapro has developed a mobile television unit for HURI TV, in Seville, Spain.</p> <p>For technical intercommunication, a CrossNET 72 matrix has been installed, with 5 TP 8116 rack panels and 2 TP 8416 desktop panels</p>	

<b>PORTUGAL</b>	<b>ETIC</b>	
	<p>ETIC is a company dedicated to training in new technologies in Portugal. They have film and television courses of different formats and content.</p> <p>In 2018 they acquired an Intercom matrix CrossNET 40, to which 3 TP8116 panels, 2 Xbp belt packs and a concentrator for camera CCUs have been connected. Apart from the regular production, the system is also used for the technical coordination of the people involved in the internal training sessions of the TV Channel. The integration was carried out by the Company DEC Imagem.</p>	

<b>PORTUGAL</b>	<b>TSF RADIO NOTÍCIAS</b>	
	<p>TSF is a Portuguese radio station that produces a newscast every half an hour. It counts on a great network of international correspondents. TSF FM covers all of Portugal.</p> <p>This station has very specific technical requirements, due to the mainly informative nature of its contents.</p>	



So when TSF's new Program Production Centre engineering planning was started, a system combining both technologies was proposed not having to surrender the advantages of any of these: an intercom system serving Editorial Office and News Production has been built on Dante-based AoIP network, and this is linked to a redundant TDM bus-based matrix combining and organizing the production studios and radio broadcasting circuits.



The main elements in the new Technical Centre are two AoIP-connected matrixes: 104 intercom matrix, and AEQ BC-2000C TDM-bus based matrix for audio switching and distribution with AoIP interfaces, as well as AEQ NETBOX 32 audio interface devices.



The intercom system is installed on virtually all the technical rooms: controls, studios, technical center, booths and also on the editorial rooms. That's why it required a dedicated installation.



This system includes 64 AoIP channels. It also has inputs and outputs in analogue and other formats. The signaling protocol used and the ability to easily create flexible summing and/or distributing audio routes, allows the system to be used as a complementary infrastructure for audio transport. This acquires special relevance when recording news chronicles, interviews and outside broadcasts.



<p><b>RUSSIA</b></p>	<p><b>VGTRK (RUSSIAN NATIONAL TELEVISION AND RADIO)</b></p>	
	<p>The All-Russia State Television and Radio Broadcasting Company, in short VGTRK (Russian: ВГТРК) which operates many television and radio channels in 53 of Russia's languages.</p>  <p>The broadcasting of the All-Russia TV and radio channels is located in Moscow, and also via the regional transmitting centres of the Russian Television and Radio Broadcasting Network forming the terrestrial transmitting network. TV and radio channels from Moscow are delivered to the regions via satellite and terrestrial communication channels.</p> <p>AEQ has equipped most of the consoles and communications equipment of the radio studios in Moscow and the other regional and provincial stations of VGTRK</p>	




In 2014, the client acquired a redundant Intercom Conexia system for coordination between the studios and technical areas of the radio in Moscow. The installation has 51 user panels for TP4016 rack, one TP5024, 20 TP4216 desktop, and two linkers.

<p><b>RUSSIA</b></p>	<p><b>YAMAL-REGION TV STATION - DNK CORPORATION</b></p>	 
	<p>DNK Corporation was founded in 1993. Currently the scope of the company activity includes projects for specialized system integration such as equipping the television and film studios, the creation of audiovisual systems for sports, education, culture and art, and other structures, OB Vans production, satellite stations, special lighting systems, broadcast automation systems, TV production and broadcasting, cable and other switching products.</p> <p>A complete Mobile Unit has been built for the Yamal-Region broadcasting company. All the equipment has been assembled in flight cases to be able to cover an event outside its facilities quickly and efficiently. The system is intended to record sporting events, press conferences, concerts and theatrical performances. The device allows live streaming streaming through its internet channel.</p> <p>The basic requisite of this customer was the delivery time. In September 2019, the client established the task of designing and supplying the complete system. DNK was able to supply the equipment so that on October 27, the channel was already covering the Russian Men's Volleyball Championship.</p>	

	<p>Therefore, the system was designed and put into operation in less than two months, although generally the implementation of such projects takes 3 to 4 months.</p> <p>The core of the mobile and television production system is the 4K video mixer and all communications are centralized in an AEQ CrossNET matrix and TP8116 panels.</p>	
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<p><b>SLOVENIAL</b></p>	<p><b>DVBPRO</b></p>	
	<p>The company DVB d.o.o., which was founded in 2007, has succeeded to thoroughly revolutionize the mobile production on the Slovenian market. With professional and dedicated attitude to each client, with own experienced team and modern technological equipment, DVB guarantee for high quality services.</p> <p>In 2019, DVB commissioned the Italian integrator ARET to build its mobile unit No. 2. It is equipped with 6 Sony cameras and a Yamaha QL1 audio console.</p> <p>It incorporates an intercom matrix CrossNET 72 that communicates via IP Dante with the Yamaha console, with 8 TP8116 panels and with an Olympia 3 commentator unit, among other components.</p> 	

<p><b>SPAIN</b></p>	<p><b>13 TV</b></p>	
	<p>TRECE is a Spanish open television channel. Its main contents go through the classic cinema, TV soaps, the programs of own production and those of religious foreign production of KW TV, Popular TV and CTV.</p>	

It belongs to the Radio Popular group, along with the radio stations COPE, Rock FM, Cadena 100 and MegaStar FM.



Spanish TV station TRECE has recently renewed its image, moved to new facilities located in Madrid, and expanding their installations, now composed by two studios and a central TV control. That's why they acquired new AEQ CONEXIA matrix to perform the studios' audio and intercom management.

CONEXIA covers Intercom and broadcast audio within the same hardware. It is a redundant and modular audio matrix simultaneously managing audio for broadcast and 4-wire intercom circuits. The included switching and processing capability sums more than 300 inputs and outputs.

14 series-4000 intercom user panels are reused and connected by digital link, while the new 16 series-8000 panels are connected to AoIP circuits, with better voice clarity provided by their new acoustical design and audio processing, which includes dynamics, equalization and feedback control.

Also 24 matrix input and output circuits have been routed to two Systel IP 16 VoIP systems and two STRATOS audiocodecs for external intercoms.






<p><b>SPAIN</b></p>	<p><b>A.T.M. BROADCAST, S.L.</b></p>	
	<p>TM Broadcast is a Spanish company that develops activities in the audiovisual sector, such as rental of OB units and HD equipment, satellite transmission, studios in Madrid, Barcelona and Miami, editing rooms, content transfer, program distribution and integration of audiovisual systems.</p> <div style="text-align: center;">  </div> <p>In 2018, the production house ATM Broadcast acquired one unit of CrossNET 72 intercom matrix and user panels TP8116 and TP8416 for one of their OB vans.</p>	

<p><b>SPAIN</b></p>	<p><b>ATRESMEDIA</b></p>	
	<p>Antena 3 is a conglomerate of Spanish open television channels, owned by Atresmedia Corporación, Its main products are A3, La Sexta, Neox, Nova, Mega, Atreseries, Antena 3 HD and La Sexta HD, as well as Antena 3 Internacional and Ver-T</p> <p>In 2015 the private Spanish group acquired a CONEXIA intercom router as a centre of communications, and desktop and rack user panels distributed in six TV studios.</p> <p>The internal BC 2000D matrix is sized for 486 ports, of which 60 service wired user panels of the TP8000 series, and 30 ports service Xplorer wireless user panels</p> <div style="text-align: center;">  </div>	





<b>SPAIN</b>	<b>BAINET GROUP</b>	
	<p>Bainet group develops different activities within the area of communication, highlighting among them, Cinema and TV programs production.</p> <p>The TH5024 intercom matrix was installed in their OBVan for outside broadcasting.</p> 	

<b>SPAIN</b>	<b>BARÇA TV</b>	
	<p>Barça TV is a sports television channel entirely devoted to Barcelona Football Club. This thematic channel started broadcasting on July 27<sup>th</sup>, 1999. At this moment, Barça TV is on-air 24/7 throughout the year.</p> <p>Barça TV has carried out a complete renewal of their installations and Telefónica Audio-Visual Services (TSA), has trusted AEQ-KROMA once again.</p>	



AEQ has provided the complete Video Monitoring solution, as well as the Communications area equipment (Intercom system, Audiocoders and Phone Hybrids). These cutting-edge devices will simplify and optimize the daily operations at Barça TV.


For intercom, the System provided is a Hybrid Intercom System, a 48-ports TH5048, natively integrates different Audio formats for its sources (analog, digital and “Voice over IP”), offering great flexibility in regards to management of different signals, as well as audio from CCU’s, a wide variety of user panels, wireless IP belt packs, etc. All this is integrated in a single 1U rack unit.

It is very important to highlight that the transmission of a voice signal via IP allows several locations/venues to communicate to each other via IP. For example, the production center will be able to communicate with the Mobile Unit. The matrix provided features 28 IP, 16 digital and 4 analog ports.



The TP4016 panels, with 1U 19” rack format, 16 configurable cross point keys and 4 page levels, provides the user with up to 64 configurable keys. The keyboard is a two-color backlit silicon type and can be upgraded to 32 keys if the customer so requires.

Also, a wireless belt pack system based on 5GHz WiFi technology has been provided

<p><b>SPAIN</b></p>	<p><b>BETEVE</b></p>	
	<p>Betevé (formerly known as Barcelona Televisió) is a public local TV channel, oriented to the metropolitan area of Barcelona (Catalonia, Spain).</p> <p>During Betevé’s latest technological upgrade, the Technical Management of the channel decided to go for the KROMA by AEQ CONEXIA intercom system, including the new TP8000-series panels, allowing for professional audio quality over IP networks.</p>	

CONEXIA intercom system has capacity for up to 1024x1024 audio cross points, with modular cards architecture. But what really makes CONEXIA special is the possibility to integrate Intercom and Broadcast audio sources into the same matrix, with 48 kHz / 24 bits sampling and a 100% redundant system.



Series-8000 user panels have been designed to achieve a high, broadcast-compliant, audio quality level allowed by CONEXIA and digital technology. Audio is digitized and processed with 24 bits at 48 kHz, providing full 20Hz to 20 kHz audio bandwidth and much reduced noise and distortion levels. Ease of installation has also been kept in mind, that's why a redundant IP port, managing audio in the international DANTE-AES67 high-quality format, is included.



The full project has been leaded by Betevé's Technical Manager, Mr. Jordi Colom, in collaboration with the technical services at AEQ Leganés headquarters and the sales support of Nacho Olivella, as Sales Manager of AEQ's Catalonia office.

SPAIN	CANAL EXTREMADURA	
	<p>Canal Extremadura Television is the regional television of Extremadura, in Spain. It was created on 2005. Its facilities are located in Mérida, the region capital. In addition, it has delegations in Cáceres and Badajoz.</p>  <p>The TV channel has renewed their old Kroma intercom system for a new Conexia intercom system at the beginning of 2019. The system is fully redundant, with duplicate controllers and power supplies.</p> <p>The system is basically IP with capacity for 192 AoIP ports compatible with audio for broadcast. However, for compatibility with panels already in use, from the previous Kroma system dated in 2005, it incorporates two 10-channel cards each for digital panels with point-to-point wiring.</p> <p>It also has cards for 24 channels of analogue audio, and for connecting virtual panels, installed on an application.</p> <p>19 units of 16-key TP 8116 rack format user panels have been supplied, with 7 expansion panels to add keys in the most versatile and executive coordination positions. There is also a TP 8416 desktop panel, 12 licenses for virtual panels to be installed on PCs, in or outside the building, and a Stratos dual audio codec for external communications.</p> <p>The installation was carried out by Canal Extremadura engineers under the direction of Mr. Francisco Reyes after an AoIP training course taught by AEQ engineer Raul Moreta</p>	



The configuration and operational adaptation has been developed by the Director of Operations of Canal Extremadura Mr. Javier Ramayo with the advice of the AEQ Product Manager Roberto Tejero.

AEQ operation has been coordinated by Sales Area Manager Eduardo Guerrero

**SPAIN**

**CEU-MADRID**


CEU San Pablo University is a private, Catholic Spanish university, based in Madrid and with campuses in Madrid and Alcorcón.




The private university has acquired one unit of CrossNET intercom matrix, with 72 ports, including TP8116 IP user panels and Xbp wireless terminals, for Television Production training at the Faculty of Humanities and Communication Sciences of the CEU San Pablo University, installed by the company BROAD SERVICE.

Cesar Aguado, CEO of Broad Service has told us "The client plans to deploy a Dante network that allows him to simplify the wiring in the new building and with some audio features that until now have never been able to deploy due to the limitations of wiring distribution in the current building. The connection between Television and Radio production studios is a fact that is increasingly present in the needs of the clients The CrossNET intercom matrix and the deployment of the Dante audio network intends to respond to this need that in the teaching centers are booming".

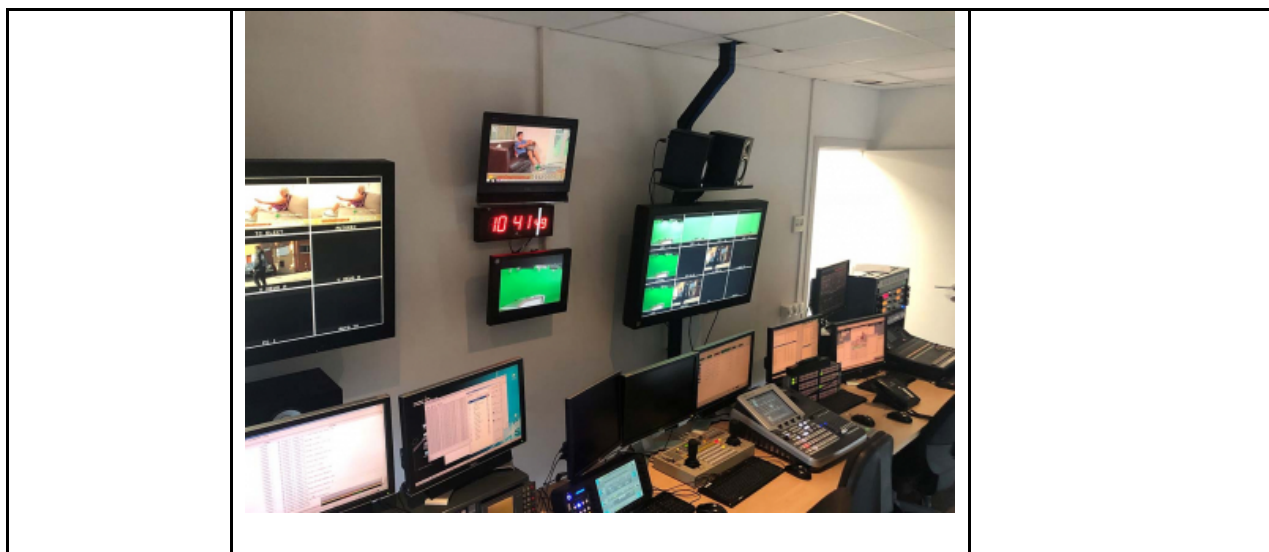






SPAIN	CEU-VALENCIA	
	<p>CEU Cardenal Herrera University (CEU-UCH) is a private, Catholic Spanish university, based in Valencia and campus in Moncada and Alfara del Patriarca (Valencia), Castellón de la Plana and Elche (Alicante). It was inaugurated in the 2000-2001 academic year. It belongs to the San Pablo CEU University Foundation.</p> <p>BROAD SERVICE has recently installed a 72 ports CrossNET intercom matrix, 4 TP8116 and 2 TP8416 user panels, two Xbp wireless terminals, for Television Production training at the Faculty of Humanities and Communication Sciences at CEU University in Valencia.</p> <p>The system also includes a Venus 3 IP audio codec for connection with system users outside the production centre and two Netbox 32 audio over IP terminals to facilitate remote analogue and digital audio inputs and outputs in the system.</p>  <p>The intercom system is natively integrated into a Dante network that constitutes the audio backbone for both TV production and future audio and radio studios. This Dante network is integrated through a DANTE-MADI bridge with a hybrid broadcast video matrix with audio processing, so the intercom matrix also performs broadcast audio routing and distribution functions throughout the entire installation.</p> <p>Everything is interconnected and virtually any audio signal can be sent to any location in the building easily and with hardly any wiring structure. This has allowed us to find new collaborative flows between the Radio and Television studios.</p>	



<p><b>SPAIN</b></p>	<p><b>PARLIAMENT OF SPAIN. CANAL PARLAMENTO</b></p>	
	<p>Produced for the “Congreso de los Diputados” of Spain, Canal Parlamento is a television channel that broadcasts by satellite, cable and Internet, with a program based on the broadcast, live and deferred, of plenary sessions and Commission as well as informative production programs own.</p>  <p>In 2018 Canal Parlamento has acquired one unit of CrossNET 72 intercom router with 3 TP 8116 rack user panels and a Camera hub terminal for its TV Production Facilities. It was installed by the company BROAD SERVICE.</p> <p>The intercom based on CrossNET is the principle of an installation that will grow through the deployment of a Dante IP audio network</p>	
<p><b>SPAIN</b></p>	<p><b>CONSORCI TELEDIGITAL MOLLET</b></p>	 <p>consorci teledigital mollet</p>
	<p>Vallès Visió, the public digital television of the Vallès Oriental, is a channel managed by the Consorci Teledigital Mollet, initially integrated by 9 villages in the south of Vallès Oriental in Catalonia, Spain</p> <p>In 2019 Vallès Visió has acquired one unit of CrossNET 72 intercom router with TP 8116 rack user panels and two Venus 3 AoIP audio codec for its TV Production Facilities. It was installed by the company BROAD SERVICE.</p>	








<b>SPAIN</b>	<b>CTV</b>	
	<p>The audiovisual production company CTV based in Santiago de Compostela, Spain with almost 35 years of work in services and production of audiovisual content. CTV was incorporated only six months before the launching of the Galicia Television Radio Company (CRTVG) for which it carries out a lot of work.</p> <p>The company currently has 10,000 square meters of film and television studios distributed in five sets of 1,100, 1,000, 800, 600 and 200 square meters that accommodate several TVG productions, as well as the work of other producers.</p> <p>In 2014, an AEQ-KROMA intercom matrix has been installed in CTV, one of the biggest production companies in Galicia.</p> <p>It was installed a Conexia matrix system with cards to serve up to 30 intercom user panels and 24 analogue inputs and outputs. At the same time, there were installed 11 TP4416 user panels and 6 TP4216 user panels, a Linker interface and 4 virtual panels working on Ipod devices. An AEQ IP audio codec for external communications was also installed to provide remote connections to the system.</p>	


<b>SPAIN</b>	<b>DOBLE DIEZ</b>	
	<p>Doble Diez, based in Telde, Canary Islands, is one of the most active content providers of the Canary Regional Television.</p> <p>Boomerang TV, is the current owner of Doble Diez.</p>	

	<p>Boomerang TV is a conglomerate of Spanish television producers, responsible for the most popular Spanish series and owned by the French company Lagardère Studios.</p> <p>Doble Diez, in 2018, installed an intercom system based on CrossNET 72 matrix, with 7 user panels for TP8116 rack and 4 Xbp wireless terminals.</p> <p>Engineering and integration was developed by Broad Service SL</p> 	
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<p><b>SPAIN</b></p>	<p><b>IB3, PALMA DE MALLORCA</b></p>	
	<p>IB3 is the regional radio and TV station of the Comunidad Autonoma de Baleares. It now covers all the Balear Islands from its main studios in Palma de Majorca.</p> <p>In 2015, IB3 acquires the CONEXIA intercom matrix as the heart of the OBvans communications.</p> <p>The system consists of cards for 8 analogue audio inputs and outputs and 30 user panels. They were supplied with Conexia six ruggedized Ipad with the XVirtual application, a TR7000 communications frame and 7 TP 3016 panels</p>	

	<p>In 2018, it was expanded with 4 TP8116 processed panels with EP8116 expansion panel</p>	
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<p><b>SPAIN</b></p>	<p><b>ISB</b></p>	
	<p>Founded in 1996 by Mr Manolo Romero, <b>ISB</b> has served as the host <b>broadcaster</b> for many of the world's leading <b>sporting</b> events, including seven Olympic Games, six Paralympic Games, numerous World Championships and World Cups, and continental events such as the Pan American Games.</p>  <p>The international host broadcaster ISB has purchased an intercom system based in: a CrossNET intercom matrix with 104 ports, 20 rack user panels TP 8116 and 15 desktop user panels TP 4016. The intercom system gives service to the company in the production of sporting events.</p>	


<p><b>SPAIN</b></p>	<p><b>MEDIASET - TELECINCO</b></p>	
	<p>Mediaset España Comunicación is a Spanish communication group created in March 1989, by the Italian company Mediaset,</p> <p>Its activity focuses on the production and exhibition of television content. He currently operates the television channels Telecinco, Cuatro, Factoría de Ficción, Boing, Divinity, Energy and Be Mad,</p> <p>In 2013 the private broadcaster started a Project in which until 2017 they deployed a CONEXIA intercom system to cover all their TV studios in the north of Madrid.</p> <p>In Mediaset Spain, 6 different Conexia routers have been installed joined by tielines that the Crossmapper configuration application manages transparently. The objective is to give</p>	


greater security to a possible failure of the equipment or operation.

- The central control has a matrix with two frames with 486 ports, of which 60 are equipped with user panels
- Studios 4 and 5 have a matrix with a frame with 140 ports, of which 51 are equipped with user panels
- Studio 6 has a matrix with a frame with 210 ports, of which 30 are equipped with user panels
- Studio 7 has a matrix with a frame with 218 ports, of which 26 are equipped with user panels
- The news studio has a matrix with a frame with 193 ports, 48 of them equipped with user panels
- Mobile unit number 5 has a matrix with a frame





<b>SPAIN</b>	<b>OVERON</b>	<b>overon</b>
	<p>Overon has become for years the leader of innovation technology for the deployment of Broadcast services all around the world. Overon is part of Mediapro Group, providing technical and creative solutions to produce and broadcast any audiovisual project.</p> <p>Overon entrusts the installation and integration of intercom systems for its OB Van for outdoor TV productions to the</p>	


	<p>Company Broad Service</p> <p>In 2017, it installed two mobile units, each with a CrossNET 72 matrix and 3 TP8116 panels</p>  <p>The company acquired in 2018 one unit of CrossNET 72 intercom matrix with 3 TP8116 rack user panels, and a Stratos Stationary audio codec.</p>	
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<p><b>SPAIN</b></p>	<p><b>PHASE SERVICIOS AUDIOVISUALES</b></p>	
	<p>PHASE SERVICIOS AUDIOVISUALES, S. L. is a company specialized in professional sound. They have post-production studios, portable pickup and sound equipment, public address systems and others.</p> <p>PHASE SERVICIOS AUDIOVISUALES, SL offer a wide range of services: engineering design in audio installations, operation in TV programs, direct sound capture, OB Vans, sound postproduction, musical creation, corporate or sporting events, documentaries, advertising, TV series, live concerts, etc.</p> <p>In 2018, PHASE SERVICES AUDIOVISUALES has acquired 1 unit of intercom matrix CrossNET 72 with TP 8416 and TP 8116 user panels.</p>	




SPAIN	PRODUCTORA FARO	
	<p>Faro is an important audio-video producer based on Vigo, in Galicia, Faro has just presented a new HD mobile unit with 6 cameras.</p> <p>In order to equip this new HD mobile production unit, the company's Technical Management area has trusted on AEQ, installing its TH5048 Hybrid Intercom system.</p> <p>Faro has opted for the TH5048 intercom system, with 9 TP4016 panels together with external remote communications interfaces using standard phone lines and GSM.</p> <p>The installed matrix counts with 28 IP, 16 analogue and 4 analogue ports, enabling a total of 48 ports natively integrating different nature sources (analogue, digital and Voice over IP), what offers great flexibility when managing different signals, such as audio from CCU's, a great variety of user panels or wireless IP belt-packs. All is integrated into a single 1U rack unit.</p> <p>The transmission of an audio signal via IP and the ability of this system to communicate between different locations and centres via IP have been considered as added-value features of the system by this Producer.</p>  <p>TP4018 user panels, with just 1U height, include 16 software-configurable cross-point keys and 4 page levels, what sums up to 64 configurable keys.</p> <p>"We are fully satisfied with the human and professional support provided by AEQ, and, once more, we have counted with their help during the elaboration of the project for this new HD mobile unit", highlights Ignacio Fernández (Technical Manager).</p>	



SPAIN	PRODUCTORA GALAXIA	
	<p>Galaxia Studios is one of the largest private audiovisual complexes in the Valencian Region.</p> <p>They have a constructed area of more than 6,000 m2, with four sets of 1000 m2, 600 m2, 400 m2 and 200 m2, 3,000 m2 of production offices, 30 multipurpose rooms, 15 post-production booths, 6 sound and dubbing studios, 3 realization controls and 2 transformation centres with a power of 2 MW.</p> <p>His sets are adaptable to CINEMA, FICTION SERIES, ENTERTAINMENT PROGRAMS, ADVERTISING, PHOTOGRAPHY and everything that the imagination of creative people is able to transfer to the world of images.</p> <p>The Systems Integration Company Virtual Lemon installed in 2018 a 40 intercom matrix, two TP 8116 user panels, wireless infrastructure, and an Xbp wireless terminal at the production company Galaxia, in Valencia.</p>	

SPAIN	RADIO TELEVISIÓN REGIÓN DE MURCIA	
	<p>The Public Radio and Television of the Region of Murcia, in eastern Spain, includes the Murcia Regional Television.</p> <p>7 Television Región de Murcia is an open television channel, the main public regional channel of the Region of Murcia.</p> <p>In 2019 the television has upgraded their TH5024 intercom matrix. The company Bienvenido Gil has done the entire project.</p>	

SPAIN	RADIO VITORIA	
	<p>Radio Vitoria is a radio station belonging to Euskal Irrati Telebista (EiTB), the public communication group under the Basque Government. It broadcasts from Vitoria, Álava, Basque Country (Spain), for the entire Alava territory. Its program is mainly commercial and diverse, consisting of political and economic information, sports, culture, humour and entertainment, closely linked to Vitoria and Álava.</p>	

In 2019 they have renewed their radio studios with AEQ Arena digital consoles. In studies 1 and 4 very complex tasks are developed and the operator is supported to take the program forward in the work of a producer who coordinates external communications.

That is why it has been considered to include a CrossNET 72 matrix to facilitate the work of the producers of these studies. Each producer accesses through a TP 8416 panel that allows him to talk with the mobile units, with the sister stations in Bilbao and San Sebastián, with the controllers, with the guests and even go out to the program if necessary.



**SPAIN**

**SETEMEDIA**

SETEMEDIA, the Spanish audiovisual production company with more than 20 years of experience in the sector dedicated to programs production, docs, live events, etc..., puts into service a new 8 Camera HD OB van.

Among the equipment that is part of this new OB van an AEQ-KROMA Intercom matrix TH5000 can be highlighted with 16 digital and 4 analogue audio ports. Three 16 keys user panels are connected to the matrix, one for each technical and production area of the OB unit.

The advantages of this intercom system are clear: the connections of the panels using RJ45 allows us to very quickly deploy and configure as per the requirement of each event and if





needed, to connect the OB Unit to an external Control. Versatility and simplicity Setemedia value as very important, especially when configuring the system and its panel to match each type of broadcast event. We have different “maps” of configuration prepared as “templates” that we can deploy at any instant. Setemedia can also prepare and load a new configuration onsite using the Ethernet or USB connectivity, thus adapting the panels to the needs of every event" says Andrés Díez, CTO at SETEMEDIA.

"Also, we have completed our OB van with an AEQ Stratos IP/ISDN Audiocoders with two stereo channels for our high quality audio links. We are very satisfied, it's really trustworthy equipment and a great value for money" explains Andrés Díez.



Setemedia has prepared to incorporate a second dual channel audio codec to its new OB Van to be able to meet the need for additional audio links when the type of broadcast so requires. “Both the space distribution of the vehicle and the equipment integration of this new OB Van has been designed and executed by SETEMEDIA'S technical team. When we were looking for equipment and suppliers we did not hesitate to rely on AEQ. Their customer care and the reliability of their equipment are just great" says SETEMEDIA's CTO.

<b>SPAIN</b>	<b>TELEFONICA AUDIOVISUAL DIGITAL (MOVISTAR +)</b>	
	<p>Telefónica Audiovisual Digital is the mother company of Movistar Plus, the OTT subscription platform for digital television.</p> <p>Movistar+ has acquired in 2018 one unit of our newest intercom matrix CrossNET with 72 ports and four TP8116 user panels to coordinate content creation work</p>	


<p><b>SPAIN</b></p>	<p><b>TELEFONICA SERVICIOS AUDIOVISUALES</b></p>	
	<p>Telefonica Servicios Audiovisuales, TSA, is the company of the Telefónica Group that has been creating broadcast audiovisual solutions since 1993. With its headquarters in Spain and a strong presence in Latin America, this S.I. company focuses on the client, promoting flexible and innovative technological solutions.</p> <p>The Company has acquired in 2018 one unit of our intercom matrix CrossNET with 72 ports, 9 TP8116 panels, and 4 WIRELESS BELTPACKS Xbp to integrate a solution for a new TV Station.</p> <p>Same year, for other Projects they acquire from AEQ 2 Intercom Matrix CrossNET 72, 5 user panels TP 8116, 2 Wireless Terminals Xbp and 3 audiocodecs Phoenix Stratos.</p>	


<p><b>SPAIN</b></p>	<p><b>TELEVISION MELILLA</b></p>	
	<p>Television Melilla is the public television of the autonomous city of Melilla, a Spanish city located in North Africa, next to Morocco. Television Melilla is the communication instrument of the Autonomous City of Melilla through the public company INMUSA</p> 	

	<p>Television Melilla has acquired in 2019 within the integration of its new TV studios, developed by the Broad Service Company, a CrossNET 72 matrix, accompanied by 2 Xplorer wireless belt pack, and 4 TP8116 user panels.</p>	
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<p><b>SPAIN</b></p>	<p><b>TOBOGGAN BROADCAST SERVICES</b></p>	
	<p>Toboggan Services is focused to offer high broadcast quality solutions and has equipped the new Master Control room of Non Stop production studios, based in Fuente el Saz - Madrid.</p> <p>An intercom system has been installed in the new Master Control Room as a complete solution for the current operation, always a future expansion is possible. This system is composed by a 72 matrix with only 1U height that offers 32 Dante, 8 digital AES, 12 broadcast-quality 4-wire analogue balanced and 20 IP compressed audio ports. AEQ Crossnet allows great operation and configuration flexibility in what relates to audio signal management.</p> <p>The current CrossNET 72 matrix functionality has been integrated with 13 TP8116 rack-mount panels and a TP8416 desktop one. Also, three CE6000 concentrator units have been installed to enable integration of the different 4-wire signals from the CCU's, offering audio summing. 4 wired BP3004 IP belt packs have been also added to the system.</p>  <p>“We are very happy with the support received from Guadalupe López, technical-sales responsible at AEQ, who supported us in all what we needed during the development of this project”, Lucas Gómez (Technical Manager at Toboggan Services) highlights.</p>	



<p><b>SPAIN</b></p>	<p><b>TV3</b></p>	
<p>TV3 is the main television channel in Catalonia (Spain), part of the CCMA public broadcaster. It is the first to broadcast all its programming exclusively in Catalan.</p> <p>The public broadcaster has acquired an AEQ BC2000D audio matrix, as a platform for the CONEXIA Intercom system, as centre of the communications, and intercom user panels distributed in four or more TV studios.</p> <p>It is sized with three frames of the BC 2000 router, for 508 ports, of which 141 service wired user panels and 20 Xplorer wireless user panels</p> 		

<p><b>SPAIN</b></p>	<p><b>VAV GROUP</b></p>	
<p>VAV GROUP is the result of more 20 years of proven experience inside the broadcast market. VAV is a reference Spanish contents producer. VAV GROUP shares its projects among its three business units: VAV Broadcast, VAV Studios y VAV Engineering.</p> <p>The company supplies television production services. In the past acquired one 104 and one CONEXIA intercom systems, both installed in Abu Dhabi OBVans.</p> <p>In 2018, the company acquired two units of the compact intercom matrix 104. More recently, in 2019, VAV has installed two units of intercom matrix, one of them with 72 ports and the other one with 104 ports.</p>		

Especially interesting is the installation of the OB VAN 21 in 4k in which the intercom system incorporates the Olympia 3 commentator unit as a special user panel



The intercom system comprises a 104 matrix with 64 Dante ports providing service to 16 TP 8016 user panels and 12 4-wire analogue circuits, offering great operating and work flexibility.

Using a Dante ecosystem has made possible the incorporation of OLYMPIA 3 AEQ latest commentary unit which can operate as a commentary unit and intercom panel simultaneously.

OLYMPIA 3 can send and receive audio to/from any Dante-enabled device. It could have been directly connected to the Calrec console, but it is more flexible for VAV to use the 104 intercom matrix as an intermediate routing system.


Audio is mixed inside the commentary unit, so it is delivered to the Dante network already mixed. Some signals such as return, commentator intercom with the studio and remote control, as well as some general audios such as PA and TV event/program sound, are sent from the production audio mixer through the matrix.



Another interesting feature of the OLYMPIA 3 is that commentator 1 channel can operate in the so-called "Intercom mode", which turns it into one more panel in the mobile unit's general intercom system, with identical performance and configuration as the rest of panels. This makes the start-up phases easier to VAV.

<p><b>SPAIN</b></p>	<p><b>VISUALES 2000</b></p>	 <p>visuales2000</p>
<p>Visuales 2000 is a communication and audiovisual services company. Its facilities in Alhaurín de la Torre (Málaga) have all the technical means necessary to undertake any audiovisual production, show or TV program.</p> <p>This company in 2019 has acquired 1 unit of CrossNET 72 installed by the company BROAD SERVICE to coordinate the productions.</p>  <p>The system included 6 TP8116 user panel, a TP8416 user panel and 12 analogue connection for a Vokkero radio communication system, as well as a Phoenix Stratos audio codec</p>		

<p><b>UKRAINE</b></p>	<p><b>TV PROJECT</b></p>	
<p>In 2018 the TV Project integrator, distributor of AEQ products, has installed a TV OBVan in Ukraine, for Kiev TV 1 Productions on and has selected for the intercom a CrossNET 40 matrix that communicates 4 TP 8116 user panels and several belt pack stations BP3004</p> 		



<p><b>UNITED KINGDON</b></p>	<p><b>BBC</b></p>	
	<p>The British Broadcasting Corporation - or simply BBC - is the public radio and television service of the United Kingdom. The BBC operates under the mandate of a royal charter that guarantees its independence from political or commercial controls. It broadcasts throughout the United Kingdom and has international services</p> <p>The Broadcasting House is the headquarters of the British Broadcasting Corporation (BBC), in Portland Place and Langham Place, London.</p> <p>The public corporation has acquired an intercom matrix CrossNET 40 including 6 TP8116 user panels, and an Xvirtual software User Panel. The System was installed by our dealer local partner BROADCAST SERVICE CENTER LTD at Broadcasting House.</p>	

<p><b>UNITED KINGDON</b></p>	<p><b>UNYVERSITY OF PLYMOUTH</b></p>	
	<p>The Digital Garage Group is one of the leading British integrators for audiovisual production facilities</p> <p>In 2019, it acquired a CrossNET 72 intercom system for the University of Plymouth ,</p> <p>It includes:</p> <ul style="list-style-type: none"> <li>○ 2 TP8416 user panels</li> <li>○ 3 TP8116 user panels</li> <li>○ 6 XVirtual virtual user panel licenses for Windows or iOS</li> <li>○ 8 Xplorer wireless belt packs with two multiple charging stations and two access points</li> </ul>	




The University of Plymouth, with 21,645 students is a public university based mainly in Plymouth, England where the main campus is located, but the university has campuses and affiliated colleges across South West England




In support of its television training plans, the university has a fully operational television station, which even develops outdoor broadcasting activities. This intercom system has been implemented for the coordination of these retransmissions,





## MIDDLE EAST


<b>BAHREIN</b>	<b>BAHREIN MEDIA –BAHREIN TV</b>	 <p>تلفزيون البحرين Bahrain TV</p>
	<p>The country's television is state-owned and controlled by the Information Affairs Authority, which operates over five terrestrial TV networks.</p> <p>In 2018 one unit of the compact intercom matrix CrossNET 72 was installed in one of the OBvans of the public Bahrain broadcaster. The project was done by the Italian company ARET VIDEO AN AUDIO ENGEENERING.</p>	
<b>IRAN</b>	<b>IRIB</b>	 <p>صدا و سیماي جمهوری اسلامی ایران</p>
	<p>The Islamic Republic of Iran Broadcasting (IRIB), formerly called National Iranian Radio and Television, is an Iranian media corporation which holds all domestic radio and television services in Iran, and is also among the largest media organizations in the Asian and Pacific regions, and a regular member of Asia-Pacific Broadcasting Union. IRIB is independent of the Iranian government.</p> <p>IRIB has acquired in 2018 two TB3000 intercom matrices with 12 ports to install in OB Vans destined to take live news. Each has three user panels and is linked to a Vokkero wireless system in UHF.</p> <p>In addition, they have acquired in 2019 another system based on the Crossnet 40 matrix, also with three user panels.</p>	
<b>ISRAEL</b>	<b>CONTACT GLOBAL SERVICES</b>	
	<p>They have recently acquired an intercom matrix CrossNET 72 installed at the OB van for outside broadcasting by A.B.S ALTMAN BROADCAST SERVICES.</p>	



ISRAEL	RESHET TV	
	<p>In 2017, the Israeli company Reshet obtained a license to operate a new, independent TV channel with national coverage and commercially designated as Channel 13. Since 1978 and up to then, Reshet had been broadcasting as part of a group of operators such as Channel 2.</p> <p>Channel 13 is a new TV station, offering generalist contents, betting heavily on local production, broadcasting live programming for more than 8 hours every day from its new central studios in Tel Aviv.</p> <p>The Television has acquired 1 intercom matrix CrossNET 104 installed by our dealer A.B.S ALTMAN BROADCAST SERVICES. Also in 2017 the television has installed the TB3000 12 ports intercom matrix.</p> <p>In 2018, AEQ provided Channel 13 with a completely new intercom system based on the AEQ CrossNET 104 compact matrix, featuring 32 multi-channel ports over IP with Dante technology, TP8116 and EP8116 user panels -offering 16 or 32 operator's keys as well as several pages and memories, AEQ TH03 phone hybrids for external calls, a few AEQ NETBOX interfaces to exchange signals between studios using their IP network.</p> <p>There are currently 5 studio sets operating together with 4 technical control rooms, 5 post-production rooms and an MCR sharing the same, full performance intercom system for their operations. The platform will be expanded shortly, as new programs are introduced in the broadcasting schedule.</p> 	

<b>JORDAN</b>	<b>JRTV – JORDAN RADIO TV</b>	
	<p>Jordan Radio and Television Corporation (JRTV) is the state broadcaster of Jordan. It was formed in 1985 from the merger of Jordan Radio and Jordan Television. In 2016 the public broadcaster acquired 1 unit of the compact intercom matrix TH5000 with 48 ports installed by HEAT FOR ENGINEERING, AEQ's local partner.</p>	

<b>TURKEY</b>	<b>AV KOM</b>	
	<p>The Turkish integrator AVKom acquired in 2015 for a television an intercom system including a TH5012 matrix, 5 TP4216 hybrid panels, 2 TP3016 panels and two concentrators for the cameras' CCU.</p>	

<b>TURKEY</b>	<b>FOX TV</b>	
	<p>Fox TV is one of the leading free to air TV networks broadcasting in Turkey, and is associated with Fox Broadcasting Company.</p> <p>The private television has acquired through the AVKom Teknoloji integrator an intercom system for its television production facilities. The main wireless part consists of 8 Xbp terminals centralized on a TW5008 matrix. With this system, works another system with two TP 3016 user panels, and two Xbp wireless terminals. Centralization is performed by a TH 5012 intercom matrix</p>	

<b>TURKEY</b>	<b>ISTANBUL HIPPODROME</b>	
	<p>The Hippodrome of Istanbul was a circus that was the sporting and social centre of Constantinople, capital of the Byzantine Empire. Today it is a square named <i>Sultanahmet Meydanı</i> in the Turkish city of Istanbul, with a few fragments of the original structure surviving.</p> <p>The local integrator Ideapro has installed in 2019 a coordination system based on a TH5012 matrix and 8 TP 8116 user panels</p>	

<b>TURKEY</b>	<b>TURKISH STATE METEOROLOGICAL SERVICE</b>	
	<p>The Turkish State Meteorological Service, TSMS, was founded in 1937. It is the only legal organization which provides all meteorological information in Turkey.</p> <p>The local integrator Ideapro has installed in 2018 a coordination system based on a TH5012 matrix and 8 TP 8116 user panels</p>	
<b>UAE</b>	<b>ARISTON BROADCAST AND TELECOM SOLUTIONS</b>	
	<p>In 2016 the Greek integrator acquired 1 unit of the intercom matrix TH 5000 installed for a client in UAE.</p>	