



IP IN ACTION



REPRESENTATIVE INSTALLATIONS

ARD
NATONMODE, GERMANY

IP TECHNOLOGY
AES67

IP BENEFITS
Real-time exchange of audio programs over WAN
Seamless redundancy switching
Future-proof technology

ON AIR DATE
February 2018

ARENA

IP TECHNOLOGY
SMPTe ST 2022-6
SMPTe ST 2110

IP BENEFITS
Formal Flexibility (SD/HD)

ON AIR DATE
September, 2016

AP
ASSOCIATED PRESS
New York, USA

IP TECHNOLOGY
SMPTe ST 2022-6
SMPTe ST 2110

IP BENEFITS
Ease of expansion
Test case opportunity
Long cable runs

ON AIR DATE
March 2017

BBC | cymru wales

IP TECHNOLOGY
SMPTe ST 2110
AMANA MDS

IP BENEFITS
Future Proofing
Scale

ON AIR DATE
04/2019

bce
broadcasting center europe
LUXEMBOURG

IP TECHNOLOGY
SMPTe ST 2022-7
AES67
PTPv1 and PTPv1
Upgradable to SMPTe ST 2110

IP BENEFITS
Formal Agnostic (10GbE, 40G)
Flexibility, Redundancy, Reliability
Innovation

ON AIR DATE
April 2017 (Studio Production)
June 2017 (Postprod Facility)

CANAL+

IP TECHNOLOGY
SMPTe ST 2022-6
SMPTe ST 2110

IP BENEFITS
Reduced cabling "out of rack" and "room to room" connectivity
IP enables Software and COTS server hardware

ON AIR DATE
November 2016

CBC Radio-Canada

IP TECHNOLOGY
SMPTe ST 2110

IP BENEFITS
Reduced cabling "out of rack" and "room to room" connectivity
IP enables Software and COTS server hardware

ON AIR DATE
Released Fall 2019
Transfer of operation starting early 2020

CCTV
BEIJING, CHINA

IP TECHNOLOGY
SMPTe ST 2110 for HD-LHD
SMPTe ST 2022-7

IP BENEFITS
Flexibility and agility
Open, interoperable
Scalable, future-proof
Space-saving

ON AIR DATE
February 2018

CCTV
BEIJING, CHINA

IP TECHNOLOGY
SMPTe ST 2022-6/7
SMPTe ST 2029

IP BENEFITS
Simple system structure for UHD
Full redundancy network
Excellent program quality

ON AIR DATE
October 2018

CTC
MOSCOW, RUSSIA

IP TECHNOLOGY
SMPTe ST 2022-6
AES67

IP BENEFITS
Open, COTS-based
Highly flexible
Significant reduction in hardware footprint
Future-proof environment for quick and easy expansion

ON AIR DATE
July 2018

FOX SPORTS
THE WOODLANDS
HOUSTON, TX, USA

IP TECHNOLOGY
SMPTe ST 2022-6
AES67

IP BENEFITS
Flexible routing ecosystem
Open, interoperable
Highly scalable
Seamlessly incorporates new technologies

FOX NETWORKS
LOS ANGELES, CA, USA

IP TECHNOLOGY
SMPTe ST 2110
SMPTe ST 2029

IP BENEFITS
Enhanced routing density
Reduced core cabling with fewer fibers
Expanded & flexible audio & ANC data flows
Rack multi-format video

ON AIR DATE
April 2018

Global production
TURIN, ITALY

IP TECHNOLOGY
SMPTe ST 2110
AES67

IP BENEFITS
Open, interoperable
Highly scalable
Significant rack space savings
Future-proofed infrastructure

ON AIR DATE
September 2018

GLOBOSAT
Rio de Janeiro, BRASL

IP TECHNOLOGY
SMPTe ST 2022-6/7
AES67
SMPTe ST 2029

IP BENEFITS
Massive AV signals transport
Signals utilization flexibility

ON AIR DATE
July, 2016

GLOBOSAT
Rio de Janeiro, BRASL

IP TECHNOLOGY
SMPTe ST 2022-6/7
AES67
SMPTe ST 2029

IP BENEFITS
Simple operation for live events with low external source
Signals utilization flexibility

ON AIR DATE
March 2018

GRT
GUANGZHOU, CHINA

IP TECHNOLOGY
SMPTe ST 2022-6/7
SMPTe ST 2110-10
SMPTe ST 2110-20
SMPTe ST 2110-30

IP BENEFITS
Flexible system structure
Full IP systems include AES67
Direct IP for UHD/4K Live Sports Events

ON AIR DATE
Phase1: 03/2017
Phase2: 02/2018

ITB
MOSCOW, RUSSIA

IP TECHNOLOGY
SMPTe ST 2110
SMPTe ST 2022-7

IP BENEFITS
Scalable 1080/256 IP core enabling 1080p production, and full scale 4K in future
Switcher, Replay and Camera, interconnect via native IP, eliminating expensive cross-gateways

ON AIR DATE
November 2018

HUIZHOU RADIO
Huzhou, China

IP TECHNOLOGY
AES67

IP BENEFITS
Ease of signal monitor and control
Interoperability
Low latency

ON AIR DATE
July 2016

HUIZHOU RADIO
Huzhou, China

IP TECHNOLOGY
SMPTe ST 2022-6/7
AES67

IP BENEFITS
High efficiency in signal monitor and control
Improved security with network redundancy
Ease of installation and maintenance

ON AIR DATE
July 2016

IQIYI
BEIJING, CHINA

IP TECHNOLOGY
SMPTe ST 2022-6/7
SMPTe ST 2110-10
SMPTe ST 2110-30

IP BENEFITS
Flexible system structure
Full IP systems include AES67
Flexible switching of UHD/4K program format
In system installations

KBS Media
SEOUL, KOREA

IP TECHNOLOGY
SMPTe ST 2110 & AES67

IP BENEFITS
Scale
Interconnectivity between Studios

ON AIR DATE
February 2018

LinkedIn
MULTI-CAMPUS PRODUCTION
San Francisco/Munich/New
Bangalore/Dublin/Chicago/New York

IP TECHNOLOGY
SMPTe ST 2022-6 (current)
SMPTe ST 2110 (AES67 2018)
SMPTe ST 2029 (2018)

IP BENEFITS
Low-latency infrastructure
Format flexibility

ON AIR DATE
June 2018 - 2018 (partial)

LIANYANG RADIO
Lianyungang, China

IP TECHNOLOGY
AES67

IP BENEFITS
High efficiency of signal monitor and control
Improved security with network redundancy
Low latency

ON AIR DATE
September, 2017

LIUYANG RADIO
Luyang, China

IP TECHNOLOGY
AES67

IP BENEFITS
Ease of signal monitor and control
Improved security with network redundancy
Direct IP for UHD/4K Live Sports Events

ON AIR DATE
February 2016

Mobile TV Group
DENVER CO, USA

IP TECHNOLOGY
SMPTe ST 2110
AES67

IP BENEFITS
Scalable 1080/256 IP core enabling 1080p production, and full scale 4K in future
Switcher, Replay and Camera, interconnect via native IP, eliminating expensive cross-gateways

ON AIR DATE
April 2019

NBCUniversal Owned Television Stations
WCAU & WWSI
Camden Technology Center Philadelphia, PA USA

IP TECHNOLOGY
SMPTe ST 2022-6/7
AES67

IP BENEFITS
Formal Flexibility
Resource sharing
Easy local and remote reproduction/caching

ON AIR DATE
2018

NDR
NDR ELBPHILHARMONIE
Hamburg, Germany

IP TECHNOLOGY
AES67

IP BENEFITS
Shared management
Shared infrastructure
Flexible rights management

ON AIR DATE
January 2017

NEP
SINGAPORE

IP TECHNOLOGY
SMPTe ST 2022-6
AES67

IP BENEFITS
Flexibility
Scalability

ON AIR DATE
March 2017

NEP
CLOUD PRODUCTION PLATFORM
The Netherlands

IP TECHNOLOGY
SMPTe ST 2022-6
AES67

IP BENEFITS
Resource sharing
Reduced Travel Budget
Flexibility

ON AIR DATE
November 2015

NEP
THE HUB
Sydney and Melbourne, Australia

IP TECHNOLOGY
SMPTe ST 2110

IP BENEFITS
Resource sharing
Anyone Anywhere on the network

ON AIR DATE
March 2018

NOTRE DAME UNIVERSITY
South Bend, Indiana, USA

IP TECHNOLOGY
AES67

IP BENEFITS
Flexible workflow, inter-operability, and a future-proofed infrastructure.

ON AIR DATE
Fall 2017

now
PCWV NEWS NEWS
Hong Kong, China

IP TECHNOLOGY
SMPTe ST 2022-6 & AES67

IP BENEFITS
Scale
Flexibility

ON AIR DATE
August 2018

OVC
CHINA CITY, JAPAN

IP TECHNOLOGY
SMPTe ST 2110

IP BENEFITS
Flexibility and agility
Open, interoperable
Highly scalable

ON AIR DATE
2018

RBC
北京人民广播电台
Beijing, China

IP TECHNOLOGY
AES67

IP BENEFITS
Ease of signal monitor and control
Improved security with network redundancy
Interoperability

ON AIR DATE
April 2017

RU TV
Moscow, Russia

IP TECHNOLOGY
AES67

IP BENEFITS
Future-proofed, enhanced production workflow, future-proofed infrastructure.

ON AIR DATE
Spring 2013

91.0
RUJIAN RADIO
Rujian, China

IP TECHNOLOGY
AES67

IP BENEFITS
High efficiency of signal monitor and control
Improved security with network redundancy
Low latency

ON AIR DATE
June 2017

sky
Milan, Italy

IP TECHNOLOGY
SMPTe ST 2022-6/7
AES67

IP BENEFITS
Flexible routing ecosystem
Open, interoperable
Highly scalable

ON AIR DATE
February 2017

SMG
SHANGHAI MEDIA GROUP
Shanghai, China

IP TECHNOLOGY
SMPTe ST 2110 & AES67

IP BENEFITS
Scale
Flexibility

ON AIR DATE
May 2018

腾讯视频
Tencent Video
Beijing, China

IP TECHNOLOGY
SMPTe ST 2022-6/7, TC0

IP BENEFITS
Scale
Scalability
Flexibility

ON AIR DATE
December 2016

Timeline
London, UK

IP TECHNOLOGY
SMPTe ST 2110
SMPTe ST 2022-6
SMPTe ST 2029

IP BENEFITS
Enables large scale complex OB's
Removes traditional SDI matrix limitations

ON AIR DATE
May 2017

tpc
Zurich, Switzerland

IP TECHNOLOGY
SMPTe ST 2110
SMPTe ST 2022-6/7
AES67

IP BENEFITS
Open architecture, Compact and flexible, Scalability
Seamlessly incorporates new technologies, Future proofed

ON AIR DATE
August 2018

TV GLOBO RECIFE
RECIFE, BRAZIL

IP TECHNOLOGY
SMPTe ST 2022-6/7
AES67
VSP TR-04

IP BENEFITS
Flexible routing ecosystem
Open, interoperable
Highly scalable

ON AIR DATE
January 2018

TV2
Bergen and Oslo, Norway

IP TECHNOLOGY
SMPTe ST 2022-6 + AES67 + PTP initially
SMPTe ST 2110 (planned HC 2018)
SDN

IP BENEFITS
Enables resources (racks, equipment and studios/control rooms) to be shared within and across sites
Can evolve and grow to meet changing needs

ON AIR DATE
September 2017 (Bergen)

VICE
Brooklyn, NY, USA

IP TECHNOLOGY
SMPTe ST 2022-6
AES67
SMPTe ST 2029

IP BENEFITS
Completely distributed facility
Flexible to future needs
Separate video/audio routing
Best-of-breed products connected via IP standards

ON AIR DATE
December 2016