



NATO Leaders' Meeting 3 - 4 December 2019

Technical Advisory

SATELLITE CO-ORDINATES

SATELLITE COORDINATES FOR FREE LIVE VIDEO FROM 2019 NATO LEADER' MEETING UK

TRANSMISSION DETAILS FOR NORTH AMERICA, EUROPE and ASIA

NATO in partnership with HOST TV is offering free access to video of the key events from the NATO Leaders' Meeting 2019 of Live feeds and recorded material 3 – 4 December 2019

Events reflect local time GMT

The transmissions are provided by NATO as a public service to make the video and audio available for news and public affairs purposes via satellite, Eurovision world feeds <https://www.eurovision.net/events/news/politics/45831> and locally in the Media centre. The signal is also available at the BT tower in London.

There is NO DOWNLINK CHARGE. There is NO ENCRYPTION.

Transmissions will be extended or modified as events warrant.

Satellite distribution for all HOST TV events from the NATO Leaders' Meeting are planned for the same coordinates, as follows:

Host TV Pool Date & Times:

Current Host TV times to Satellite are as Follows.

Please note these times may change slightly if the programme changes.

There will be a 2nd Host TV Pool signal available for UK Main Press Conferences

Host TV Pool Signal 1 – SATELLITE DETAILS**Host TV Pool Signal 1 -**

- Tuesday 3rd December 2019; 1130 – 1200, 1600 – 1630, 2030 – 2130 TBC local time
- Wednesday 4th December 2019; 0700 local time – LIVE feed expected to end 1630 local time

Satellite Eutelsat 7B 7 deg East Transponder B1

Channel 1M6 - 6 MHz

Uplink frequency 14318.5 MHz POL.Y

Downlink frequency 11018.5 MHz POL.X

Parameters DVBS2 8PSK 4.9373 Ms/s FEC 3/4,Pilot:On Roll-off 0.2 (MPEG4/H.264 420 10.7514 Mbps)

Video standard HD 1080i 50Hz 16:9

Audio 1 INTERNATIONAL

Audio 2 ENGLISH

Audio 3 FRENCH

Audio 4 OTHER / RUSSIAN (for selected events)

Satellite EU5 WA 355 deg East Transponder C08

Channel G LOWER - 6 MHz

Uplink frequency 6293.0 MHz POL.LHCP

Downlink frequency 4068.0 MHz POL.RHCP

Parameters DVBS2 8PSK 4.9373 Ms/s FEC 3/4,Pilot:On Roll-off 0.2 (MPEG4/H.264 420 10.7514 Mbps)

Video standard HD 1080i 50Hz 16:9

Audio 1 INTERNATIONAL

Audio 2 ENGLISH

Audio 3 FRENCH

Audio 4 OTHER / RUSSIAN (for selected events)

Satellite Asiasat 5 100.5 deg East Transponder C11V

Channel 11A72 - 72 MHz

MCPC SERVICE 03

Uplink frequency 6305.0 MHz POL.X

Downlink frequency 4080.0 MHz POL.Y

Parameters NS4 16APSK 70.0 Ms/s FEC 19/30,Pilot:On Roll-off 0.02 (MPEG4/H.264 420 169.317 Mbps) NS4 NLC Mode:On

Video standard HD 1080i 50Hz 16:9

Audio 1 INTERNATIONAL

Audio 2 ENGLISH

Audio 3 FRENCH

Audio 4 OTHER / RUSSIAN (for selected events)

Satellite SES-14 312.5 E Transponder HEL 19 - HER 19

Channel 19A72 - 72 MHz

MCPC SERVICE 02

Uplink frequency 6381.5 MHz POL.LHCP

Downlink frequency 4156.5 MHz POL.RHCP

Parameters NS4 16APSK 70.0 Ms/s FEC 2/3,Pilot:On Roll-off 0.10 (MPEG4/H.264 420 178.421 Mbps) NS4 NLC Mode:Off

Video standard HD 1080i 60Hz 16:9

Audio 1 INTERNATIONAL

Audio 2 ENGLISH

Audio 3 FRENCH

Audio 4 OTHER / RUSSIAN (for selected events)

BT Local End: HDEBU13

Host TV Pool Signal 2 – SATELLITE DETAILS

- **Wednesday 4th December 2019; 1330 – 1430 local time**

Satellite	Eutelsat 7B 7 deg East Transponder B1
Channel	1N6 - 6 MHz
Downlink frequency	11024.5 MHz POL.X
Parameters	DVBS2 8PSK 4.9373 Ms/s FEC 3/4,Pilot:On Roll-off 0.2 (MPEG4/H.264 420 10.7514 Mbps)
Video standard	HD 1080i 50Hz 16:9
Audio 1	INTERNATIONAL
Audio 2	AD HOC
Audio 3	FRENCH
Audio 4	AD HOC
Satellite	EU5 WA 355 deg East Transponder C08
Channel	CH F2 - 6 MHz
Downlink frequency	4062.0 MHz POL.RHCP
Parameters	DVBS2 8PSK 4.9373 Ms/s FEC 3/4,Pilot:On Roll-off 0.2 (MPEG4/H.264 420 10.7514 Mbps)
Video standard	HD 1080i 50Hz 16:9
Audio 1	INTERNATIONAL
Audio 2	AD HOC
Audio 3	FRENCH
Audio 4	AD HOC
Satellite	Asiasat 5 100.5 deg East Transponder C11V
Channel	11A72 - 72 MHz
MCPC	SERVICE 04
Downlink frequency	4080.0 MHz POL.Y

Parameters	NS4 16APSK 70.0 Ms/s FEC 19/30,Pilot:On Roll-off 0.02 (MPEG4/H.264 420 169.317 Mbps) NS4 NLC Mode:On
Video standard	HD 1080i 50Hz 16:9
Audio 1	INTERNATIONAL
Audio 2	AD HOC
Audio 3	FRENCH
Audio 4	AD HOC
Satellite	SES-14 312.5 E Transponder HEL 19 - HER 19
Channel	19A72 - 72 MHz
MCPC	SERVICE 03
Downlink frequency	4156.5 MHz POL.RHCP
Parameters	NS4 16APSK 70.0 Ms/s FEC 2/3,Pilot:On Roll-off 0.10 (MPEG4/H.264 420 178.421 Mbps) NS4 NLC Mode:Off
Video standard	HD 1080i 60Hz 16:9
Audio 1	INTERNATIONAL
Audio 2	AD HOC
Audio 3	FRENCH
Audio 4	AD HOC

BT Local End: Local End HDEBU11

Host TV will be captured at 1920x1080@50i with four channels of embedded audio when Simultaneous translation is available.

Events with Speech/Simultaneous Translations (Sim Tran)

Ch1 International Sound

Ch2 English Interpretation - Mono

Ch3 French Interpretation - Mono

Ch4 Ad Hoc Interpretation - Mono

BT Tower

The feed will be available free, open & unencrypted on circuit:

Host TV 1 – Local End HDEBU13

Host TV 2 – Local End HDEBU11 (4 Dec 13.30 – 1430 Only)

Contact Details

For BT Bookings:

- Call BT Occasional Use Booking Duty on 0800-672855 or email: ou@bt.com
- Quote above circuit number and your Local End

For Eurovision Worldfeed: +41.22.717.2822 or worldfeed@eurovision.net and <https://www.eurovision.net/events/news/politics/45831>

Host TV Material can be received in the following ways:

- Media Centre at The Grove from Standard Edit Booths (via rate card)
- Un-reserved Workspace with clean host broadcast drop (limited amount available)
- From on-site local media server
- From World Feed Satellite
- Available at BT Tower (free, open & unencrypted)

Media playback and file copy over Network or onto External drive/USB device

All media transmitted on Host TV and selected items of general interest will be saved on to a local file server using the XDCam50Mb and H264 codecs. This is not an edit server, you won't be able to playback or edit directly from this unit. User will be able to copy and paste files across the local network from the server to their laptops or edit systems.

File copy

Alternatively, requests can be made via the media library manager to copy XDCAM50 or H.264 video files onto a USB stick or USB external drives. Note. USB sticks and external drives should be clean and free from viruses.

Switchable Feeds

All HB video feeds are originated and available in 1080i50 via a router output.

The Host TV switched feed in the Edit Booths will be available in

HDSDI 1920x1080 50i

HDSDI 1920x1080 59.94i

SDDSI 50i

SD SDI 59.94i

All Host broadcast material will be stored on a server and Edit booths can request playback of any media to their booth on their switched feed, this feed is switchable upon request via the Media Library manager who will be located outside the Host TV MCR in the Media Filing Centre.

Feeds in Edit Booths

There are two feeds in the Edit booths . One is permanently HB 1, and the other is switchable on request. Any MCR source can be selected to this feed either by purchasing a Matrix panel or requesting it to be switched via the Library Manager

Matrix Panel

Are available to purchase via the rate card (limited availability) Each panel will have access to all media transmitted on Host TV including the full broadcast mix and isolated feeds of all live cameras. These panels will also have access to a mixed output of selected simultaneous press conferences.

Host Feed Work Space

There are a limited number of work spaces throughout the media centre supplied with the host TV feed. There is a limited amount of analogue audio feeds available at these desks These are located near the edit booths.

Internet Access

There is shared access to a high speed internet connection. Private IP addresses will be provided automatically by DHCP and the connection will be firewalled and network address translated. Private addresses are dynamically allocated. Public IP addresses will not be provided. Every workspace has an internet drop to this shared connection. Video uploads need to be done by wired connection and not by wifi. Browsing wifi is available

NATO Television Studio

NATO is providing a 3-camera TV studios for Live programme inserts and local recordings, in cooperation with EUROVISION. The studio is equipped and staffed. It is available free of charge for interviews and local recordings.

Bookings can be made on a first come, first served basis at carpentier.maarten@hq.nato.int. Priority will be given to interviews by the Secretary General.

The TV studio is NOT situated in the Media Centre and access by media will need to be under escort. Reservations for the studio will be taken from delegations only.

Host Photography

A host photographer will be present at the media moments. Images will be available at https://www.nato.int/cps/en/natohq/events_171229.htm, <https://www.flickr.com/photos/number10gov/> and <https://www.flickr.com/photos/nato/>.

FOR OPERATIONAL USE ONLY – timings may be subject to change

All events reflect local time GMT

Tuesday 3rd December 2019

- 1130 - 1200 Secretary General's address at the "NATO Engages: Innovating the Alliance" Conference
LIVE (original language only)
- 1600 - 1630 Deputy Secretary General's speech at the "NATO Engages: Innovating the Alliance" Conference **LIVE (original language only)**
- Approx. 20.30 Reception for NATO Heads of State and Government hosted by the Queen of the United Kingdom of Great Britain and Northern Ireland **PLAYOUT CONFIRMATION OF TIME** to be issued via Slate, and on screens in Media centre

Wednesday 4th December 2019

- 0730 – 07.45 Secretary General's Doorstep **LIVE (Sim Tran, International, English, French, Russian)**
- 0745 - 0900 Leaders Arrivals at The Grove **LIVE (ambient sound, no remarks)**
- 0905 - 0920 Official handshake ceremony by the NATO Secretary General and the Prime Minister of the United Kingdom **LIVE (ambient sound, no remarks)**
- 0935 – 0945 Family photo of Heads of State and Government **LIVE (ambient sound, no remarks)**
- 0945 – 0955 Short ceremonial element to celebrate "NATO at 70" **LIVE (ambient sound, no remarks)**
- 0955 - 1015 Meeting of the North Atlantic Council at the level of Heads of State **LIVE (Sim Tran, International, English, French, Russian)**
- 1330 - 1400 Secretary General Press Conference **LIVE (PATH1) (Sim Tran, International, English, French, Russian)**
- 1345 UK Prime Minister Press Conference **LIVE (PATH2) (Sim Tran, International, French)**

Note: 4th December – PATH 2 only LIVE 1330-1430

Further Playouts will be communicated via Slates on Satellite & on Screens in media centre