

TLN WRO Document

Adding TV Channel



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1. PURPOSE

- (1) Following the CRC Decision of 29 June 2018 an AO which has subscribed to the Telenet ROTV is entitled to request Telenet to add an own digital TV Channel, with a maximum of 2, to its product offering. The digital TV Channel will be encrypted on the Telenet network and will only be available to the End-Users of the AO. In Telenet will assess any request within the context of the available capacity constraints in its Network.
- (2) The purpose of this Annex is to define the procedure and conditions under which an AO is entitled to add such digital TV Channel to the Telenet network.

2. DEFINITIONS

- | | |
|----------------------------|--|
| (3) Own digital TV Channel | Digital TV Channel that is added to the Telenet TV signaling in an encrypted manner and not available to Telenet TV-Customers, irrespective of whether the Channel is available to end-users of multiple AO's. |
| (4) Supplier | The party delivering the digital TV signal on the request of the AO to Telenet. |

3. RESPONSIBILITIES OF THE PARTIES

3.1 OBLIGATIONS OF AO

- (5) The below describes the standard requirements for adding a digital TV Channel to the Telenet network for the benefit of the AO.
- (6) Following the initial project, any change by Supplier in signal delivery processes, or other technical elements should be communicated as soon as possible and assessed by Telenet. Depending on the change in set-up a project timeline and costs will be communicated to the AO.

4. DESCRIPTION OF THE PROCESS FOR ADDING DIGITAL TV CHANNEL

4.1 PROVIDING OF DETAILED INPUT TO TELENET BY AO

- (7) In order to start the procedure for adding a digital TV Channel, the AO should provide Telenet with a completed questionnaire in which all relevant details on the technical specifications and the delivery of the signal are described.

4.2 TEMPLATE QUESTIONNAIRE FOR TECHNICAL SPECIFICATIONS OF THE CHANNEL AND DELIVERY OF THE SIGNAL - TECHNICAL FEASIBILITY PHASE

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- (8) Below template needs to be completed as accurately as possible in order for Telenet to determine the feasibility (proposed architecture, timing, etc) of adding the requested digital TV Channel to the Telenet network.
- (9) As soon as Telenet receives a completed questionnaire, Telenet will react within 10 Working Days on the completeness and quality of the answers provided in the questionnaire. In case the questionnaire does not allow Telenet to proceed to a feasibility analysis, Telenet will revert back to the AO with detailed questions. It is the responsibility of the AO to contact the Supplier to complete the questionnaire with all needed information.

TECHNICAL SPECIFICATIONS OF THE DIGITAL SIGNAL			
Service Provider		Channel name	
Duration	Permanent Channel <input type="checkbox"/>	Temporary Channel: from.....to.....	
Norm	SD (2,5Mbps): <input type="checkbox"/>	HD (5Mbps): <input type="checkbox"/>	HD (7,5Mbps): <input type="checkbox"/>
Delivery system (see below for detailed information)	Satellite: <input type="checkbox"/>		Fiber: <input type="checkbox"/>
Channel Details	Transponder		Frequency
	Symbol rate		FEC
	Polarization		Service ID
	Conditional Access		
Video	Resolution	VBR: <input type="checkbox"/>	CBR: <input type="checkbox"/>
Audio		PCM: <input type="checkbox"/>	AC3: <input type="checkbox"/>
Dutch Subtitling	In screen : <input type="checkbox"/>	Teletext format: <input type="checkbox"/>	DVB format: <input type="checkbox"/>
Regional transmission	Full Telenet footprint: <input type="checkbox"/>	Brussels & AIESH footprint: <input type="checkbox"/>	Telenet VL footprint <input type="checkbox"/>
Transmission Hours			
EPG data provider for the Channel			
Metadata	<ul style="list-style-type: none"> - Metadata: max 160characters - Short description: max 160 characters - Long description: max 320 characters 		
Channel logo	Logo should always be received in vectorial format (.eps, ...) so the designers can work on it to bring the logo to the desired measurements. Add Channel logo as attachment.		

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Other	

(10)The delivered signal should contain:

- H.264/MPEG-4 AVC video stream
- PCR embedded in video stream
- Stereo audio component
 - o Mpeg1L2 or AAC-LC
 - o Sampling Rate 48kHz

(11)The delivered signal may also contain:

- Dolby AC-3 surround audio component
- DVB-subtitling component
- EBU TXT component

4.3 DETAILS FOR SIGNAL DELIVERY

(12)The Signal should be delivered in a standardized way. This includes that all components should be embedded in an MPEG-2 TS delivered via direct fiber or DVB-S(2) satellite signal. It should already be indicated in the questionnaire which way of delivery is preferred by the AO as this will impact the feasibility analysis and project outline.

(13)In case the AO requests for another way of delivery (i.e. non-standard delivery), Telenet will assess the reasonableness of the request. In case of non-standard delivery the general timelines as described in this Annex can in any event not be guaranteed.

(14)The signal should be delivered in one of the following quality standards SD (2,5Mbps), HD (5Mbps) or HD (7,5Mbps). The bandwidth provided (2,5; 5 or 7,5Mbps) should be seen as covering the entire transport stream code and should thus include all relevant elements (audio, video, etc). In case the signal is delivered in another quality, this will imply additional set-up costs (i.e. transcoding costs) which will be invoiced separately to the AO.

4.3.1 Delivery by Satellite

(15)In case of a delivery by Satellite, the Satellite transponder should be DVB-S or DVB-S2 with vertical or horizontal polarisation. Signal should be available on one of these satellite transponders with footprint in Brussels / Belgium:

- Astra - 19,2° E
- Astra - 23,5° E
- Astra - 28,2° E
- Hotbird - 13,0° E
- Eutelsat - 9,0° E
- Astra 4A - 4,9° E

(16)When completing the questionnaire it should already be indicated which satellite transponder will be used for the delivery of the signal.

(17)As soon as Telenet will have received the test signal via the satellite it will be able to start the implementation of the own Channel for the AO. In order for Telenet to be able to receive the signal, in case of a satellite delivery the AO needs to provide Telenet with 2 CAM modules and 2 smartcards to receive the signal.

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4.3.2 Fiber Delivery

- (18)The signal should be provided as an IP Multicast stream and handed over in one of these locations:
- Medialaan Vilvoorde
 - Telenet Datacenter Mechelen / Hoboken

(19)When completing the questionnaire it should already be indicated which location will be used for the delivery of the signal.

(20)As soon as Telenet will have received the signal in the identified location it will be able to start the implementation of the own Channel for the AO.

4.4 TIMING FOR IMPLEMENTATION

(21)As soon as Telenet will have received the test signal (see above) it will be able to proceed with the implementation of the digital TV Channel.

(22)In any event, Telenet will foresee a technical implementation planning in case of standard delivery of maximum 2 months.

(23)In case additional elements are required which imply a non-standard delivery of the signal this could impact the standard project planning.

5. SECURITY SERVICES

(24)AO ensures that any threat or breach of Security of the Software / System (eg. when the encryption (smartcards) is forced/hacked) shall be communicated immediately to Telenet. Telenet and AO will do a risk analysis and define in mutual agreement mitigation actions.