



User Manual

IPTV EPG Server

Model			Item no.
IPTV EPG Server Ver. 1.0			492095
Language	EN	Version	891095A







Attention! / Achtung! / Consignes de sécurité!

Failure to comply with the specified precautionary measures may cause serious injury to persons or damage to property. The installation and commissioning may only be UK performed by suitably qualified persons, technicians or installers in compliance with safety regulations.

- Damage due to improper installation and commissioning, defective connectors on cables or any other incorrect handling will void the warranty.
- CAUTION: The safety requirements are according to EN 60728-11 and must be observed.
 - Disconnect mains power before working on electrical systems.
 - Any additional electrical wiring requirements should always be installed by a suitably qualified person(s).
 - Installation or service work should NEVER be undertaken during electrical / thunderstorms. •

Gewährleistung DE

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Die gesetzliche Gewährleistung nach Paragraph 437 BGB beträgt 24 Monate. Bei unsachgemäßer Installation und Handhabung erlischt jeglicher Garantieanspruch.

Bestimmungsgemäße

Und sachwidrige Verwendung

Die Montage und Inbetriebnahme darf nur von eingewiesenen Personen, Technikern

oder Installateuren unter Beachtung der Sicherheitsbestimmungen durchgeführt werden. Schaden durch falsche Montage und Inbetriebnahme sowie durch unsachgemaße Handhabung fuhren zum Erlöschen des Garantieanspruchs.

Veillez à bien respecter les consignes de sécurité ci-dessous. Leur non-respect peut provoquer des dommages matériels ou corporels. FR L'installation et la mise en route ne peuvent être effectués que par des techniciens ou des installateurs qualifiés en respectant les consignes de sécurité. La garantie ne sera pas appliquée lors de dégâts causés par une erreur de montage, de mise en route ou par un mauvais raccordement ou toute autre manipulation incorrecte. PRUDENCE : avant toute intervention, votre installation doit être conforme aux exigences définies par les dispositions Européennes EN 50083 (conformité des installations collectives) et EN 60065 (normes en vigueur pour la protection électrique).

- Débranchez l'appareil avant toute intervention, car certains composants sous tension sont dangereux (risque d'électrocution).
- Toute intervention sur l'installation ou travaux de maintenance sont à proscrire en cas d'orage •

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Introduction

The IPTV EPG Server provides middleware solutions, e.g. Hotel IPTV servers with an eXtensive Markup Language (XML) file with the EPG data, normally contained in the DVB Transport Streams from satellites, cable and terrestrial antennas.



Setup

Before getting started, make sure the headend is setup with a unique TSID and ONID and each channel has a unique SID.

Setup the headend to deliver an IP Barker channel (a transport stream containing only information about upcoming programs, thereby reducing the bandwidth required for the transport streams carrying the audio/video information) in order to provide the IPTV EPG Server with a transport stream of EPG data.

TDX Setup

For information on how to set up an IP Barker channel, please refer to the "IP Output Configurations – EIT Barker channel" chapter of the TDX Headend System Main Unit User manual.

Take special note of the multicast IP address for the Barker channel, as this is needed for the rest of the setup procedure.

Connecting to the EPG Server

Connect IPTV EPG Server to power and using a computer on the same local network, type in the Server IP (default: http://192.168.0.200) into a browser to access the User Interface. Enter the password (default "triax1234") and press Enter.

NB! The computer must have access to the same IP Subnet as the Server.



<u>STATUS</u>	SETTINGS DATABASE SOFTWARE UPGRADE MISC
SYSTEM ST	ATUS
o 131EP 314	
Server log	
Click here to view	the server log. This will open in a new window.
View log	
Server Uptime	1624
System UpTime	2
Cpu Usage	42
Memory Usage	23
Serial	-559038737
Memory Usage	533165
Services	12
Events	1761
Buffer Size, Curre	nt 0
Buffer Size, Peak	4893
-	

The Server Status page, gives basic information about the server. Take special note of the "Services" and "Events" fields. These show how many services, the server is currently receiving through the Barker channel.



5 <u>SETTINGS</u> DATABASE SOFTWARE UPGRADE MISC	
S	
ttings	
33:44:55:66	
Static 12. 168. 10. 33 0. 0. 0. 0 0. 0. 0. 0 0. 0. 0. 0 0. 0. 0. 0 0. 0. 0. 0 0. 0. 0 0. 0. 0	
ttings	
is will be applied to the EPG server as soon as you press Apply.	
n IP:Port: 239. 101. 5. 1. 50176	
Path: /api-uri	

Changing Settings

The Settings link takes you to the settings menu.

The Settings menu contains the static IP settings for the IPTV EPG Server and the Server Settings for listening to the Barker channel.

The IPTV EPG Server IP can be changed to a different subnet (e.g. the same as the TDX Service port). You can do so by changing it under "IP Settings". It is **not** a necessary for the IPTV EPG Server to be on the same subnet as the TDX AUX port, they simply need to be connected to the same switch. Enter the Barker channel IP you entered when setting up the TDX here.

Select the output format fir the XML file in the drop-down menu.

You should now be able to access the EPG data in the selected XML format.

Software Update

The IPTV EPG Server can be updated via the Ethernet port. This is done by going to the Software Upgrade page.



3 Server Web UI	
STATUS SETTINGS DATABASE <u>SOFTWARE UPGRADE</u> MISC	
SOFTWARE UPGRADE	
Select software image file: Vælg fil Der er ikke valgt nogen fil	
Upgrade	

To update the IPTV EPG Server, click select file and in the dialog box, select the image file you received from Triax A/S. Select Open and return to the Software Upgrade page. The click the Upgrade button and wait for the IPTV EPG Server to restart.

Importing and exporting settings

When setting up multiple identical systems, you can use the Misc page to export the settings from one IPTV EPG server to another. Simply click Export and save the file on a FAT32 formatted flash drive and plug it into the next Server. You can then use the dialog box to load the setting. On this page you can also Load the Default settings and Reboot the device.



Server Web UI	ETTINGS DATABASE SOFTWARE UPG	ADE <u>MISC</u>	
MISC			
Export Setting	5		
Import Setting Select Settings file	S Vælg fil Der er ikke valgt nogen fil		
Import			
Load default s	ettings		
Reboot Reboot device			

Output format

The function of the IPTV EPG Server is to translate the data provided by the TDX via the Barker channel to the supported XML file formats. The Barker channel itself does not contain the service names, but provides EPG data for each ONID/TSID/SID, i.e. the <u>Original Network ID</u> (ONID), the <u>Transport</u> <u>Stream ID</u> (TSID) and the <u>Service ID</u> (SID). In the IPTV EPG Server, this combination of ONID/TSID/SID is organized into a "DVB Triplet", showing each ID as 3 sets of 4 hexadecimal numbers.

Example:			
ONID	TSID	SID	DVB Triplet
43962	0	1	abba00000001

So in order for the TV/STB to display the correct information for the corresponding service, the XML file triplets has to be paired with the Service names in the Service plan.

XMLTVFormat

The Triax preferred format is the open XMLTVFormat. This format provides a well-defined structure for the EPG data that can be used in a variety of devices. It should be noted, however, that the TDX, and thus also the EPG Server is providing the data in UTC time rather than local time, and the application reading the XMLTVFormat must therefore correct for the local timezone and DST before presenting it to the user.



			i 10:22 🕅 🕸 i 10:22
≡	Now		
DR1	10:15 11:00	Antikkrejlerne (209)	DR1 10:15 - 11:00 Antikkrejlerne (209)
Insight UHD	09:20 10:30	Exposure Vol. 1	Britisk dokumentarserie fra 2010. Hver uge rejser to antikvitetseksperter med 200 pund på lommen til en egn af Storbritannien for i små antikvitetsbutikker at oå nå jant efter
DR2	10:00 10:25	EU 2015: Ask og partie	netop det fund, der kan indbringe køberen den største fortjeneste på den nærmeste auktion.®Originaltitel: Antiques Road Trip
Syd	08:00 11:00	Sønderborg Lokal TV	
TV SYD	10:00 10:25	Nyheder fra TV SYD	
1-2-3.tv	10:00 11:00	SchuhWerk - Herbst-Wi	
ANIXE SD	10:00 11:00	Infomercial	
Disney Channel	10:15 10:45	Pac-Man und die Geist	
QVC	10:00 11:00	ELAMBIA - Die Welt der	
SIXX	10:10 11:06	Desperate Housewives	
TLC	10:05 10:35	Ausgezogen eingezog	
		_	

This picture demonstrates how the XMLTVFormat may be presented after a timezone correction and after the DVB Triplets have been translated into the actual service names.

Middleware Server.

This product is designed to provide IPTV EPG data to a Hospitality TV or Set Top Box via IPTV. In these setups, the Middleware Server controls the channel mapping for the for the TVs, and the only channel information the IPTV EPG Server can extract from the Barker stream, is the <u>O</u>riginal <u>N</u>etwork <u>ID</u> (ONID), the <u>T</u>ransport <u>Stream ID</u> (TSID) and the <u>Service ID</u> (SID). All this means that the Middleware Server must request the EPG data from the IPTV EPG server, using the ONID, TSID and SID.

To access this information on a TRIAX TDX, go to the TDX Service tool and select "Services". Make sure the "IP" and "IP SID" boxes are checked. This will show you the SID for all the services that are currently mapped to IP addresses.

On the TRIAX TDX, the IP ONID is always 43962 and the IP TSID is always 0.

Macnetix

When setting up the channels on the Macnetix Middleware Server, please make sure that the ONID, TSID and SID are correct. This creates a unique identifier that can be used to link the Middleware's "Channel plan" with the EPG data. A special XML format has been created for this middleware server

Planned for future release:

Samsung SINC Server

When setting up the SINC server channel plan, first make sure the provided tray application is running. Then you can select the relevant EPG data as long as you know the SID. Note that the SIDs are delivered in HEX numbers from the IPTV EPG Server. This means that the number 10 is represented as an A, the number 11 is represented as a B and the number 15 is represented as an F. Like the Macnetix Middleware server, the SINC server has a special XML format and additionally requires a special tray application, running on the server, in order to copy the information to the required location on the server.



Troubleshooting

If you are unable to access the EPG data in the proper format, please check if the Status page has registered any Services and Events. If this is not the case, check the IP settings of both the IPTV EPG Server and the Headend.



Туре		IPTV EPG Server Ver. 1.0	
Art. no		492095	
Functionality		EPG XML Server for IPTV	
I/O RJ45 Ethernet Connector			
Supported speed	Mbps	10/100/1000	
Cable Category		Cat 5e, Cat 6, Cat 7	
Maximum Cable Length	m	100	
Input USB AUX			
Maximum power consumption	mA	500	
Maximum supported disk size	ТВ	2	
Maximum supported file size	GB	4	
Maximum supported filename length		255 characters	
General Data			
I/O connector IP Stream		RJ45 Ethernet	
Input connector USB AUX		USB female	
Input connector DC		DC Jack 2mm inner diameter, 5.5mm outer diameter	
Current consumption (without USB Device present)	mA	400 @5V	
Input voltage (fed from TOU 232SA or optional from PSU	V	4.85.2	
Operating temperature	°C	-10+50	
Weight	kg	1.126	
Dimensions	mm	160x167x30	
Accessories	-		
Power supply		100240VAC, +5VDC/3A, TRIAX Part no.: 310019	



For further information and updated manuals go to

triax.com/support



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