



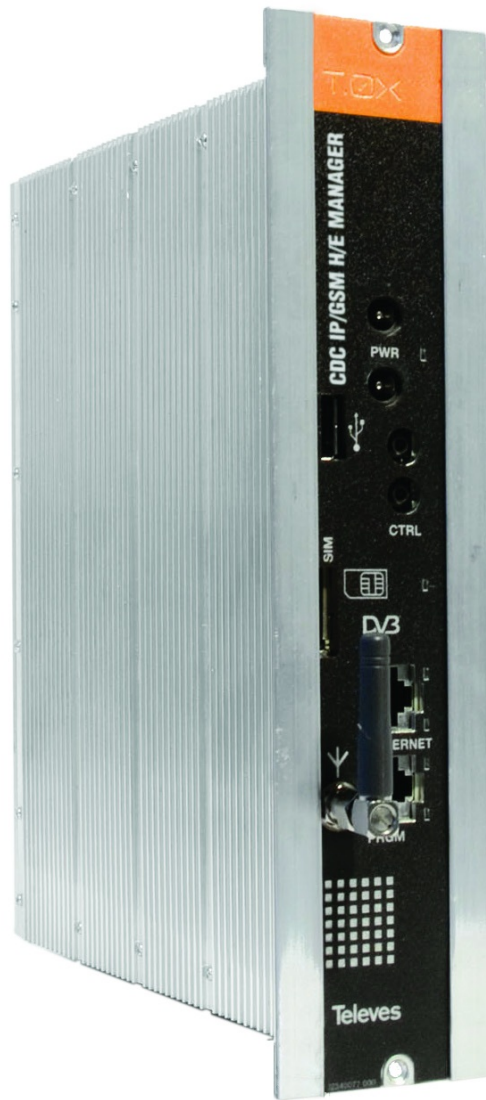
## Televes 5559 T.OX Series CDC H/E Manager Headend Controller User Guide

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# Televes<sup>®</sup>

T.OX<> SERIES

Refs. 5559, 555901  
User Guide



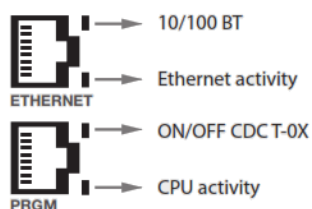
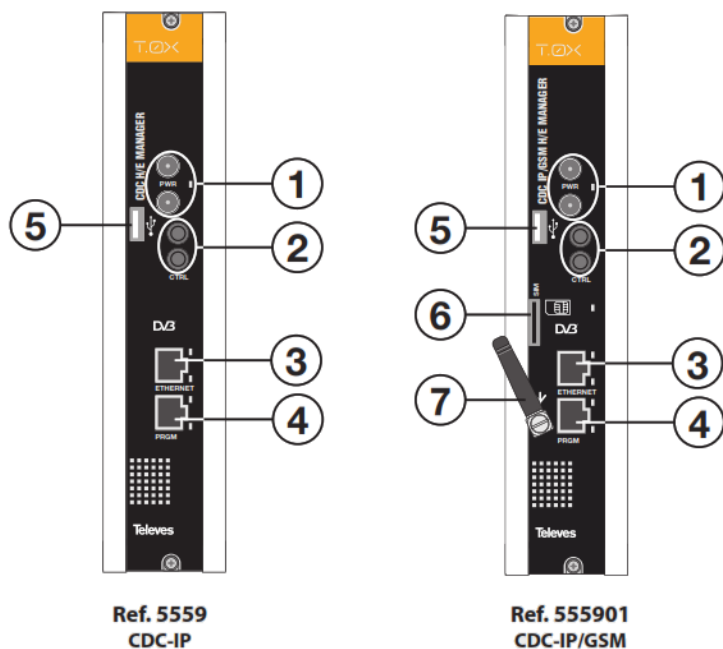


Fig. 1

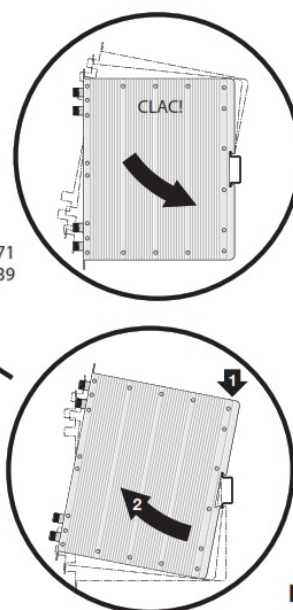
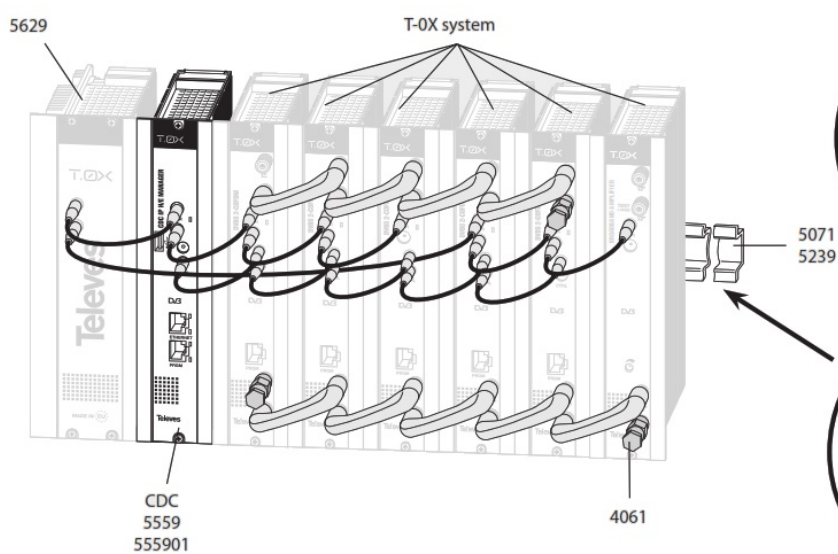
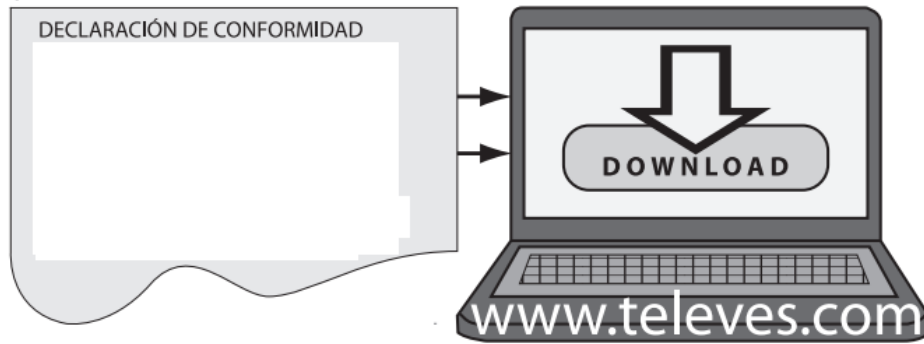


Fig. 2



[televes.net/A00293](http://televes.net/A00293)



[www.televes.com](http://www.televes.com)

## CDC H/E MANAGER


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## Important safety instructions

### General conditions of installation

- Before handling or connecting the equipment, please read this manual.
- In order to reduce the risk of fire or electric shock, do not expose the equipment to rain or moisture.
- Do not take the cover off the equipment without disconnecting it from the mains.
- Do not obstruct the equipment's ventilation system.
- Please allow air circulation around the equipment
- The equipment must not come into contact with water or even be splashed by liquids.
- Do not place containers with water on or near the equipment if it is not adequately protected.
- Do not place the equipment near sources of heat or in excessively moisture conditions.
- Do not place the equipment where it may be affected by strong vibrations or shocks.

-  This symbol indicates that the equipment complies with the requirements of the CE mark.

## Description of Inputs / Outputs / Connections

The module features (Fig. 1) the following:


1. Powering bus connector. Status LED
2. Control bus connector
3. RJ45 Ethernet connector


4. Programmer / PC connector
5. USB Host connector
6. SIM. GSM/GPRS operator card
7. GSM Antenna(Quadband)

## Introduction

- The CDC H/E Manager implements an element with the ability to convert Televés headends in a communications center, either through its internal modem GSM/GPRS (Ref 555901) or via the Ethernet interface for IP communications (Ref 5559 and Ref 555 901).
- It allows control and monitoring, both locally and remotely, of T.OX headends of Televes, serving as a base platform for the implementation of current and possible future services.

## Technical specifications

CPU	Processor	ARM920T™ ARM®			
Memories	Type	8 MB Flash 64 MB de SDRAM 128M x 8 Bit NAND Flash Memory			
Interfaces Connectors	T.OX powerin g	24V 	R145 connector	10/100 Base-T Ethernet	
	Interface	RS-482	RJ45 connector	Debugging / Programmer LC D	
	Interface	USB 2.0 Full Speed Host (1 2 Mbps)	GSM Antenna connector	F connector	
	SIM Interface	SIM cards reader			
		GSM-850 / 900 Power peak 2W RF (+33dB m) over 50 Ohm		max. absolute	s 5 :1
	Transmission power		V S W R ( V ol ta g e St a n		

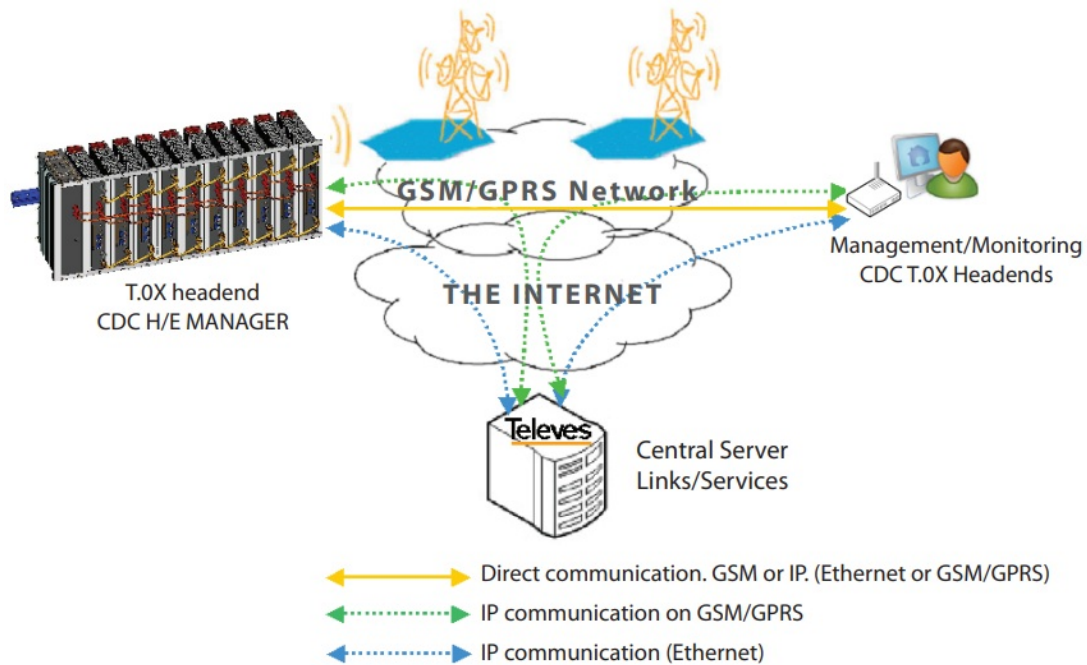
GSM/GPRS Radio Interface		DCS-1800 / PCS-1900 Power peak 1W RF (+30dBm) over 50 Ohm	ding wave Ratio )	recommended	s 2:1
	Reference Sensitivity	GSM-850 / 900 -107 dBm	Input power (peak)	> 2 W	
		DCS-1800 / PCS-1900 -107 dBm	Antenna impedance	50 ohm	
	Antenna gain	1.5dBi Gain < 3dBi (reference: X/2 dipole )	Bandwidth	70 MHz for GSM 850, 80 MHz for GSM 900, 170 MHz for DCS, 140 MHz for PCS band	
	GPRS	GPRS CLASS 10	Max. uplink transmission rate 42,8 kbps		
		Encoding schemes: CS1, CS2, CS3 and CS4	Packet Broadcast Control Channel		
		Max. downlink transmission rate: 85,6 kbps			
	Peripherals		Real-Time Clock/ Alarm Digital thermometer		
Operating system		Linux Kernel 2.6.16			
General	Powering	24 V 	Operating temperature -5 .... +45°C		
	Consumption	300 mA	Protection index IP20		

These technical specifications are defined for an ambient temperature of 45 ° C (113 ° F). For higher temperatures, forced ventilation must be used.

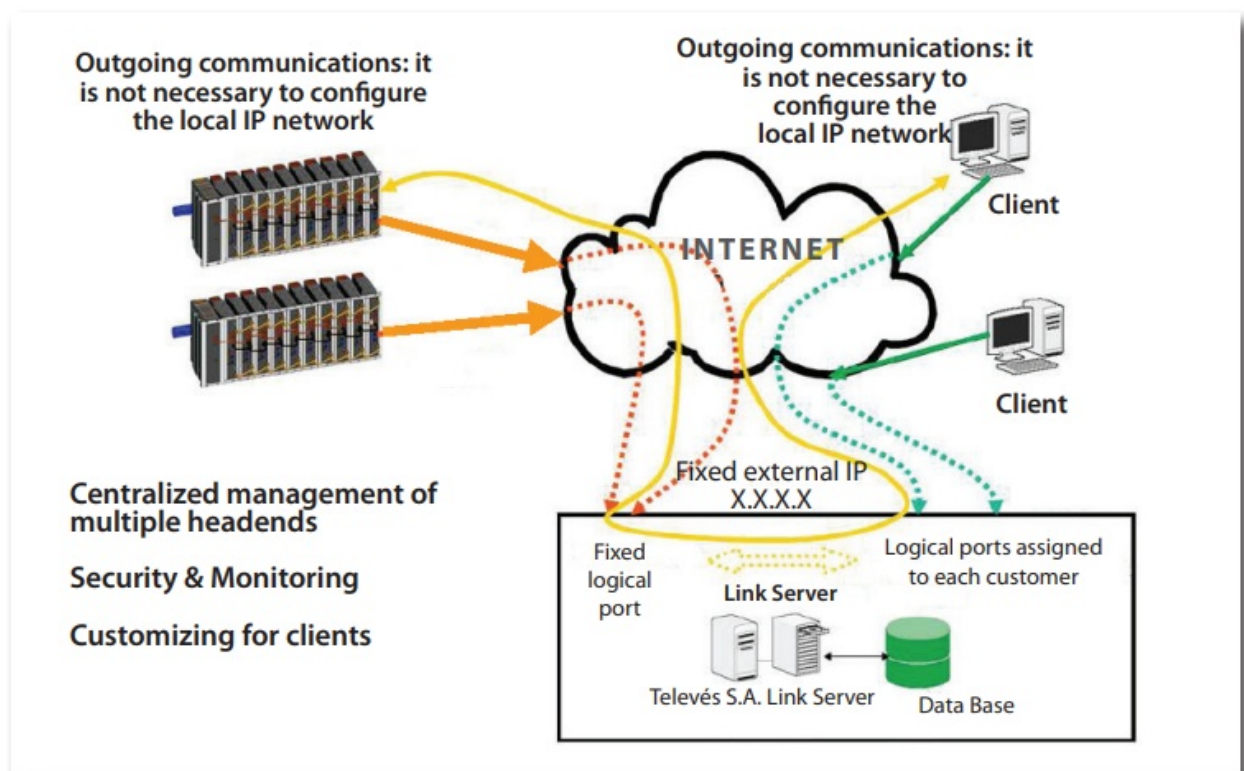
## Control / Monitorization

### Links' Server

The CDC H/E Manager was designed to implement, through IP GSM-GPRS, remote communication between any T.0X headend and the Client Control's Software. This can be done directly or through a Link Server that allows a plug-and-play installation, thus not requiring any kind of IP network configuration.

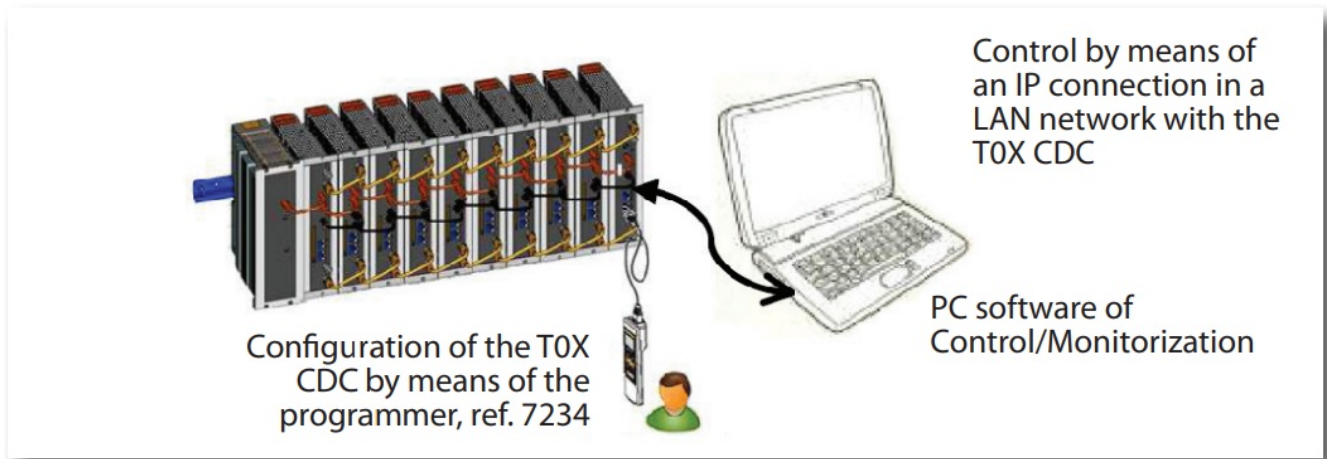


Ref. 555901 enables IP communication either through Ethernet or via the GSM / GPRS. Direct connections are also possible by either of the two networks.  
 The ref. 555901 can establish data communication with the Link Server via Internet, on the GSM GPRS network. The GSM / GPRS provides fixed IP.  
 Links Server allows centralized management and monitoring of multiple headends.



Both the Web server and CDC Software Server are also accessible locally to the refs. 5559 and 555901. The connection can be implemented on a LAN, or even directly over the Internet, if you publish the output ports of CDC H/E MANAGER services.  
 The CDC Headend Manager allows local configuration through the LCD programmer Ref. 7234.





## Web Server

The ref. 555901 has a Web server, which enables its settings. It allows visual monitoring of the elements connected to the T.OX BUS.

Homepage website CDC T.OX

Can be accessed by either knowing the IP of its LAN, or through the signaling fixed IP which is always available:

**<http://169.254.1.254:15706>**

**The port is always:**

**15706**

**Information Box**

- Date/Time; CDC temperature.
- The name of this T.OX CDC module.
- Manufacturing serial number.
- Version of Software.
- Number of modules installed.

**Information Box Content:**

CDC HEADEND MANAGER  
Fri Mar 14 07:13:13 2014 UTC / 28.8°C

Name: CDC70000000  
Serial Number: 000000000000  
Software Version: 01.08.00031  
Num Modules: 6

**Main menu**

- ☐ CDC Headend Manager
- ☐ Password
- ☐ Bus Control
- ☐ IP Configuration
- ☐ GSM-GPRS
- ☐ Services Server
- ☐ Alarms by Em@il
- ☐ Firmware Upgrade
- ☐ Technical Support

**Access to the headend's status**

**Televes**

Displays a list of devices that are connected to T0X BUS, and their status. Green means that the T0X module is correct. Orange indicates that, at times, the module has had incorrect states. Red indicates the module is in a bad state of communication with the BUS.



Table showing T.OX elements of the headend, and their status by colors.

Correct

5 5633 1.03.00000 ● S T.OX DVBS2-COFDM C/Telev

Identifying

2 5631 1.02.00000 ● S T.OX DVBS2-COFDM/Sagecat

Error

4 5634 1.00.00000 ● S T.OX COFDM-COFDM C/Telev

The table shows the following elements and their status:

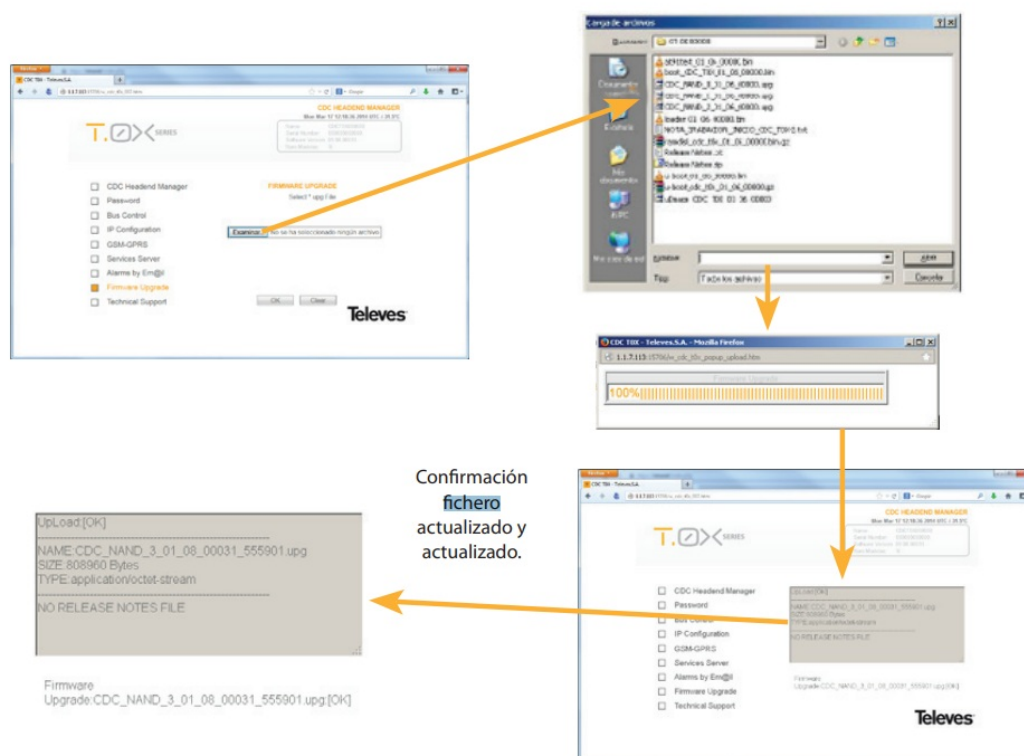
ID	Name	Status	Action
5	T.OX DVBS2-COFDM C/Telev	Correct (Green)	
2	T.OX DVBS2-COFDM/Sagecat	Identifying (Yellow)	
4	T.OX COFDM-COFDM C/Telev	Error (Red)	

**MAIN:** Main menu.

**SCAN:** it performs a full checking of the headend and deletes existing items.

**RESET:** Resets the application with the default values.

Using the Web service you can perform an updating of the T.OX CDC remotely. The figure illustrates the steps for its realization.



# Televes®

**DECLARATION OF CONFORMITY N° 130612101125**

Manufacturer.

Televes S.A. Rua Den41ica de Comm, 17 -15706 – Santiago de Compostela – Spain

**Declare under our own responsibility the conformity of the product.**

**Reference**

5559 Description  
Modem CDC-1P TOX Trademark.  
Televes With the requirements of

- Low Voltage Directive 2006 /95 / EC
- EMC Directive 2004 / 108 / EC Following standards

**EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011, EN 55022:2010, EN 55024:2010**

**DECLARATION OF CONFORMITY N° 130612102153**

Manufacturer.

Televes S.A. Rua Benetica de Como, 17 – 15706 – Santiago de Compostela – Spain Declare under our own responsibility the conformity of the product.

**Reference**

555901, 555903 Description  
Modem GSM TOX Trademark  
Televes With the requirements of,

- R&TTE Directive 1999/5/EC Following standards,


**ETSI EN 301 489-1:2011, ETSI EN 301 489-7:2005, ETSI EN 301 511:2003, EN 55022:2010, EN 55024:2010, EN 60950-1:2006 + A1:2010 + \*11:2009 + \*12:2011**

Santiago de Compostela, 12/6/2013





José L. Fernández Carnero  
Technical Director

**Documents / Resources**

	<p><a href="#">Televes 5559 T.OX Series CDC H/E Manager Headend Controller</a> [pdf] User Guide 5559, T.OX Series CDC H E Manager Headend Controller, 5559 T.OX Series CDC H E Manager Headend Controller, 555901</p>
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**References**

-  [Home | Televes](#)
-  [Language](#)