

Televes®

INFO

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35
Encuentro de la Economía Digital
y las Telecomunicaciones
Reencuentro, Recuperación y Reinención
1 - 3 septiembre 2021
#santander35



AMETIC holds the 35th anniversary of the Digital Economy and Telecommunications #Santander35

Under the slogan “**Reencounter, Recover, and Reinvention,**” AMETIC held another edition from September 1 to 3 of the business event that brings together the main players in the sector in Spain in the city of Santander. The **digital transformation and the ecological transition** as the basis for the recovery and re-invention of our economy, industry, and society has been the motto on which some of the most important business figures in the sector have shared space, once again making this event a benchmark within the technology industry.

To achieve an enhanced tourism experience with less impact on destination, tourism buildings (hotels) should be connected

The Televes Corporation also participated again, as it has been doing at this prestigious event since 2016, with **José Luis Fernández Carnero, general director of strategy** and considered an authoritative and relevant voice on issues of telecommunications infrastructure, who focused his presentation on the **smart conversion of buildings with a connection to an IoT node**, focusing on the importance for the hospitality sector of “Connected Hotels.”

Fernández Carnero explained how **smart buildings have become a challenge of**

sustainability, ecology, efficiency, and technology. And to improve the tourist experience with a reduced impact on the destination, tourist buildings (hotels) must be connected.

To this end, the hotel must have **an IoT node installed according to UNE178504 standard**, in addition to a building semantic standard (a hotel as a building), so that hotels can communicate with the destination’s platform. The IoT node is able to process building data, connect, and interoperate with other platforms and, of course, ensure digital privacy. In ad-

dition, it will improve the livability and quality of life in buildings.

Any framework that connects a building to higher living units are areas of application for semantic standards, but **the tourism field can be highlighted**, identifying as such buildings, regardless of the type of building they are, such as hotels, residences and the like, structural buildings such as airports, ports, and stations and the city and destination environment as a specific domain for tourism. ■

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October 9-13 **NAB Show** Las Vegas (USA)



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Emilio de Vita. Sales Manager, South Central Italy Area

What is your job at Televes?

As Sales Manager for South Central Italy, I am in charge of implementing the corporate marketing and sales strategies in the geographic area under my responsibility.

This takes the form of market analysis, management and control of the sales force, coordination of sales staff training, expansion of the customer portfolio and customer loyalty of existing customers.

Our work is a direct link between the company and the customer, and, in that sense, it's tremendously important to be able to reconcile user expectations with company objectives.

How long have you been with the company? How has your career development been at Televes Italia?

After graduating in Business Administration in Bologna and returning from Ireland after gaining job experience there, I arrived at Televes Italia on October 15, 2008.

I have been enthusiastically and resolutely involved in the Televes project from day one. I am very satisfied with the business results and the personal satisfaction obtained in these thirteen years.

To strengthen the territorial presence and be closer to the professionals with pre/post



The strength of the team and the "bond to the jersey" are the key values of Televes Italia

sales services, I have also been coordinating two important commercial agencies specialized in distribution in the electrical sector since July 2020.

What is the most satisfying thing about your job?

Definitely the relationship of trust that I usually establish with the client. I firmly believe that the relationship of trust leads to improving the customer's perception of our brand and consequently the success of Televes.

To grow, every company needs new customers and new turnover, but **we must never forget that all this is largely due to existing customers** who already know us and believe in us.

And the hardest part?

I think **guaranteeing growth every year** is the most difficult aspect, because replicating performance year after year with positive numbers is not easy at all in such a competitive and professional market.

But I believe that professionalism, preparation, accuracy, speed, market knowledge, experience, and a lot of humility are ingredients that help you continue to do well and be appreciated by customers.

What in your opinion are the key values in the company?

The strength of the team and **"the bond we all have to the jersey."**

Together with all my "super" Spanish and Italian colleagues, we achieved brilliant results. Thanks to the passion for excellence in the design and construction of both individual products and complete systems, thanks to our tireless work of pre and post sales assistance with customers ■



Televes Corporation®



Esther Gómez

Director of the Optical Transport area

TELEVES CONTINUES TO DIVERSIFY AND LAUNCHES THE OPTICAL TRANSPORT AREA

A clear side effect in the **evolution of the digital transformation** of the industrial and business technological fabric is the **rapid expansion of fiberoptic networks**, which improve connectivity and data transmission speeds, both for professional and residential environments.

The need for broadband services over high-capacity, low-latency networks has accelerated exponentially. To meet these needs, telecommunications infrastructures based on optical transport networks and wavelength division technology, mainly based on xWDM transmission technologies, are being developed.

Televes has understood this progression and has prepared with sufficient time to **launch its new Optical Transport business area**.

Directed by Esther Gómez, who joined Televes more than a year ago bringing a wealth of experience and a background in this type of network architecture to lead the strategy, operations, and customer support. The Optical Transport area **will ensure positioning in the markets of Europe, the Middle East, and Africa (EMEA)**, a sector of great weight and projection (some three billion euros in 2020).

The first major milestone was the signing in June of a **technological partnership with the giant Padtec**, the largest manufacturer of optical transport systems in Latin America, thanks to which Televes will incorporate DWDM solutions based on Padtec developments to the Televes portfolio of products and solutions in the EMEA markets, thus advancing in the objective of being a **technological leader in electronic communications infrastructures**, digitalization, and sustainability in efficient environments ■



Arousa range of rustproof and vandalism-proof pedestal lights

Long-lasting LED lighting for pedestrian areas and gardens.



As part of the wide variety of LED lighting options for cities, the designer pedestal lights are the real protagonists of the great **outdoor relaxation and leisure areas in urban centers**. Their presence in parks, landscaped areas, or pedestrian streets and squares illuminates the path of nighttime passers-by without disturbing their status quo.

The Arousa series is discreet and effective. It combines high light efficiency, typical of LED technology, with good electrical performance and energy savings **to offer more than 100,000 hours of useful life**. In addition, its anti-glare opal diffuser does not emit light upwards, offering **non-invasive and comfortable ambient lighting**.

People's safety is undoubtedly one of the most important aspects for a city when choosing a light, and even more so when it comes to a pedestal light, an item within reach of any pedestrian. That is why Arousa pedestal lights, with their **double electrical insulation, class II protection and SELV certification**, pose no electrical risk to pedestrians, who can walk around them and touch them in complete safety.



The structure of these lights has been designed to **withstand hostile environments**. Made of 3mm thick stainless steel, it is highly **resistant to corrosion** caused by humidity, snow or rain, and other adverse weather effects. Additionally, the Arousa series is also prepared for more difficult or remote locations, as it features **impact resistance of IK10 level** and a special protection of **colorless anti-graffiti varnish**.

For installations in truly extreme environments, such as on the coast or in harbors, where salinity is quite high, the marine stainless steel variant (AISI 316) ensures unsurpassed durability.

Finally, the installation or maintenance of these lights is simple and requires very little time, since its trim is easily and intuitively removable.

This pedestal light is available in two sizes (high and low), with a wide variety of **configurable parameters**, and the possibility of **customizing its aesthetics**, to include your own logo or coat of arms, or change the shape of the light slots ■

 <https://arousa.televes.com>



IDEA

Use the Corporate Channel to promote ArantiaCast in your establishment

The combination of the growing popularity of streaming platforms such as: Netflix, Prime video, HBO, and others with the hotel sector's search for solutions that allow the guest to enjoy services "like at home" when they are away from home, has been the seed for the development of our professional casting service for the hotel sector ArantiaCast.

But how can we easily let our guests know that the service is available in the hotel, and how can we provide them with instructions to access the service while minimizing contact with in-room items?

The corporate channel, which is often used to promote the hotel's own activities or to enhance the corporate image of the chain, can be a powerful tool to achieve this goal. A video that, when the TV in the room is turned on, visually explains how to access the service, can be the perfect tool to introduce the technology to the guest. In addition, this minimizes the problems of guests who are unfamiliar with the technology to access it by giving a visual explanation that provides a simple description of how to cast the TV in the room.



This solution can be valid for deployment in both IPTV and traditional RF television systems. In both cases we can generate the video content and program it in Televes Digital Signage equipment (Ref. 831812 or 831830) and dump it to the coaxial or IP network using a Televes encoder of the T.OX range (for example, Ref. 563852) ■

Is it possible for Wi-Fi to interfere with a TV signal?

Strictly in terms of frequency, the answer is obviously no, since the frequency bands used by Wi-Fi (2.4 and 5 GHz) are far from those used by TV (694 MHz for DTT) and 2.15 GHz for satellite.

However, it is important to analyze how this Wi-Fi signal can be generated and how the TV signal is received and distributed.

If the Wi-Fi signal is generated from a 5G modem router, it uses frequency bands that are very close to the TV signal, as illustrated in the image.

In the case of the downlink (from the 5G base station to the modem/router), 5G interference is perfectly mitigated by the use of RED 5G-ready antennas and amplification devices, or suitable filters, for which Televes has a complete catalog of solutions.

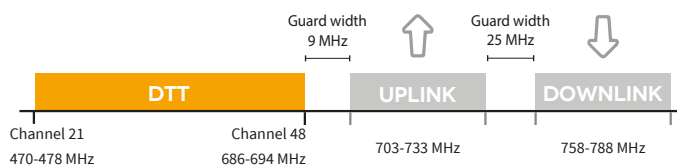
However, for uplinks (from the modem/router to the 5G base station), although

the cases can be very varied, if the power in the uplink is high, as may be the case of a point of poor 5G coverage, power overflow towards the DTT signal could occur resulting in interference, if the shielding of the coaxial distribution (cabling, elements, or connectorization) is poor. Interference is more likely in the high DTT channels because of their proximity to the uplink. Although it could occur throughout the UHF band.

This could be accentuated if the 5G modem were located close to the TV receiving device, which in many cases is more common.

In short, Wi-Fi does not directly interfere with the TV signal. Although it may indirectly do so.

Therefore, Televes recommends using cables, distribution elements, and connectors that have good shielding to avoid this type of interference in all cases ■



TELEVES FACILITIES



NEW KHON KAEN AIRPORT, THAILAND



Thailand's new Khon Kaen airport terminal will be serviced with Televes GPON networks

Thailand is an undisputed international tourism destination and its Khon Kaen airport has seen **passenger traffic increase by more than 20% annually** over the past decade. The government has approved the **comprehensive overhaul of the facility**, which will triple the current size of the airport and will have **capacity to serve nearly 2,000 passengers per hour**.

Televes has been the company selected to carry out the complex implementation

of the telecommunications infrastructure, whose **requirements included the installation of two parallel fiber optic networks with GPON technology**, not only for network redundancy, but to clearly separate the security and internal communications network—with IP-CCTV cameras, access control, intrusion and flight information service—from the building and passenger service network, such as Internet access and external communications ■



TELEVES SECOND DIGITAL DIVIDEND TOUR IN ITALY JULY

We have once again used the **ubiquity and flexibility of our mobile unit, now to tour Italy** and demonstrate the capabilities of Televes products to undertake the necessary adaptations to frequency changes in the radio spectrum.



Throughout July the **Televes Tour** conducted **trainings and presented the main innovations to industry professionals in light of the second digital dividend** in the transalpine country. Hundreds of installers boarded the truck at the various stops and we thank all the stores and institutions visited for their collaboration.

► secondoswitchoff.televes.com



NAB SHOW (LAS VEGAS, USA) OCTOBER 9-13

Little by little we are resuming the face-to-face activity and so we are going to the first event with physical booth **where Televes, TRedess and Gsertel will share a space to promote the latest corporate solutions**.

Televes will highlight the H30 series of field meters, AvantX programmable control panels and antennas and products for the U.S. Repack process, TRedess and Gsertel will focus on their transmission equipment and Hexylon meters respectively for ATSC, with support for new Next-GenTV broadcast networks ■



Data cables and their connectors

How to connect a data cable?

The usual way to connect a data cable, for example a category 6 UTP cable (Ref. 2123) with a socket connector (Ref. 209901), is by hand. However, Televes offers a much faster and simpler alternative thanks to its terminating and cutting tool (Ref. 209811).

Steps to follow to connect a socket connector manually:

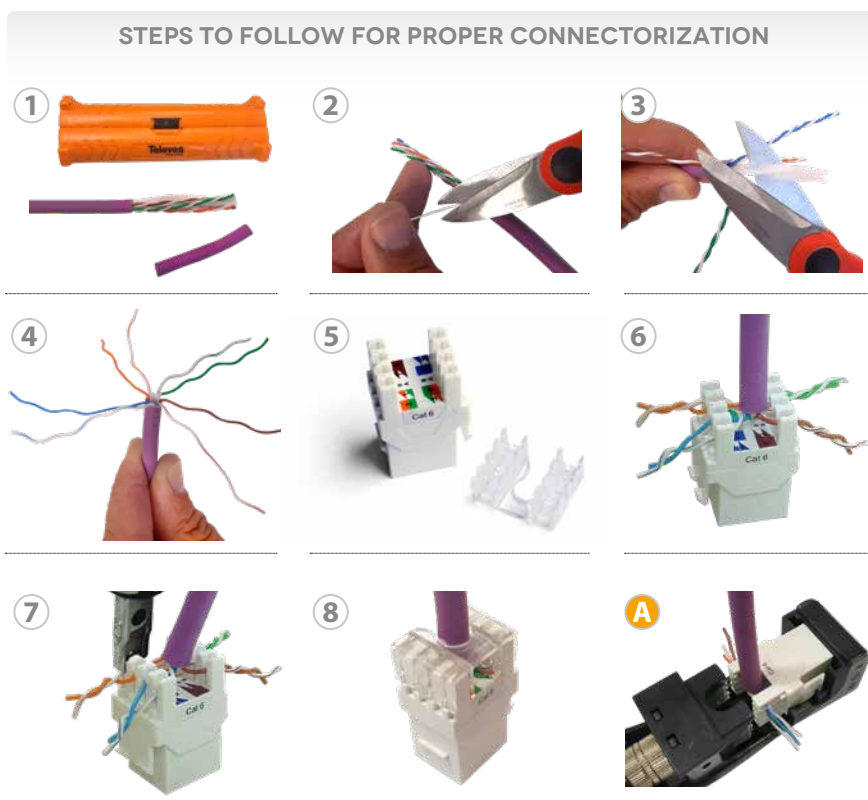
- 1) Strip the jacket of the data cable with the tool (Ref. 2162).
- 2) Cut the ripcord.
- 3) Separate the pairs sideways to be able to cut the crucifix easily.
- 4) Unwind the 4 pairs.
- 5) Remove the transparent plastic piece that protects the pins of the connector.
- 6) Insert the pairs into the corresponding pins following the color code and pull downwards.
- 7) Cut off the excess part of the wires.
- 8) Place the plastic piece on the connector exerting sufficient pressure.

Thanks to the termination and cutting tool, at point 6 it would not be necessary to pull down hard to insert the 4 pairs into their corresponding pins as this is one of the functions of Ref. 209811. In addition, once the connector is placed in the correct position (Photo A) inside the tool, the tool itself cuts the excess parts and it is much easier and faster to insert the plastic part.

Below is a link in which you can see a video showing the time difference between both options and the ease of use of the tool Ref. 209811.

More information on the time saved using this tool:

► en.televes.com/how_to_connect_a_data_cable ■



Don't miss it!

H30Suite: the new mobile App for H30 series management

The H30 series of meters now has more than five models of field meters with different features and options to meet the needs of all communication network installers.

The H30Suite application allows management of the H30 meters with Wi-Fi connectivity, for faster access and more convenient operation of the meter.

With the App, available for Android and iOS devices, information stored in the equipment, such as measurements, channel plans, or quality profiles can be **consulted, exported, and cloned**. In

addition, other more administrative tasks become more pleasant when done with a mobile device, such as registering the equipment or browsing the user manual.

Lastly, H30Suite offers the revolutionary multi-screen feature, which **turns the mobile device into a field meter** by replicating the meter's display and controls, and allows the installer to work from his own mobile device ■



H30
Suite



Are you an operator deploying,
**high-capacity, low-latency,
real-time transmission of
fiber optic networks?**



Do enormous amounts of
**traffic with sensitive, critical
or urgent data travel through
your optical networks?**



Are you concerned about
**the anticipated detection
of errors and prevention
of incidents** on your networks?

Our optical transport solutions,
based on xWDM multiplexing technology,
**offer optimal performance when it comes to transporting multiple
carrier signals over a single fiber.**

Whether for backbone, metropolitan, storage or DCI networks,
**we offer you the products and technical advice for design, implementation,
configuration and after-sales support.**

Contact us:

www.televes.com/en/optical-transport



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