Televes®

INFO

TELEVES GLOBAL SERVICES

2021-2023

HOSPITALITY

TV DISTRIBUTION

DATACOM

PROFESSIONAL LED LIGHTING

SOCIAL HEALTH CARE

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Televes approves its 2021-2023 Strategic Plan

Over the last few years, Televes has been making a significant effort to plan for and manage a set of important sectoral, regulatory, and technological variables in each country where it operates, whenever they may have an effect on its positioning and corporate development in the present and future. In March of this year, the **Board of Directors approved the 2021-2023 STRATEGIC PLAN**, detailing the company's trajectory based on diversifying business verticals and sustained international growth.

There are technological and sectoral factors in the current resolution process impacting the traditional business, always based on services for television signal capture and distribution in buildings and single-family homes. Both a potential third Digital Dividend and the loss of dish competitiveness compared to other platforms —including the continuity of broadcast television as we know it today beyond 2030— pose challenges that have been analyzed in detail in the plan.

Televes was able to leverage its **technological know-how and industrial capabilities** to shape its organization, turning toward additional market niches without neglecting the crux of its traditional business. Thus, Televes' 2021-2023 Strategic Plan supports the market share in Europe with sustained growth in its traditional business, in addition to quantifying the explosion of the three business verticals it

The 2021-2023 Strategic Plan supports the European market share for the traditional business and provides the figures for the explosion of three newly-launched verticals

launched in the last few years: the **hospitality SECTOR** with the implementation of multiservice network infrastructures in hotels, hospitals, and other buildings, the **PROFESSIONAL LED LIGHTING** sector for industrial and urban areas, and the **DataCom AREA** focused on data networks.

All of this consolidates the growth that will be supported in this period by the creation of **TELEVES GLOBAL SERVICES**, an area that will offer comprehensive installation, monitoring, and maintenance support to its customers to integrate multiservice networks with Televes products. The strategic plan for this period also includes the possible founding of another business vertical dedicated to **operator DWDM networks** with the transport network launch, aggregation, and access products and services, which will prepare us **to become leading providers for all kinds of fiber optic networks**.

Televes' traditional values, diversifying business areas with models that can be exported to international subsidiaries in Portugal, France, Italy, the United Kingdom, Germany, Poland, Sweden, Russia, the US, and the Middle East. It is a carefully-designed formula that promises a future of growth, **while keeping professional installers and the integration of telecom infrastructures at our core** ■

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Marcos Pereira.
Televes digital marketing specialist

What is your job at Televes?

As a digital marketing specialist, my job consists of finding solutions and helping shape the **digital marketing campaigns and actions** of the companies within the Televes Corporation. That means **designing and creating the layout for** corporate websites, microsites, landing pages, **software interfaces**, and generating **digital content** like photos, videos, infographics, etc.

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? Could you describe your career at Televes?

I started working in the Corporate Image department in 2016 with the intention of dedicating most of my time to creating audiovisual content. However, due to the inertia of the corporation's digital transformation, I soon started working on **new projects**

Being able to combine user expectations and company objectives is tremendously important

related to the online environment and user interfaces.

What is the most satisfying part of your job?

No two days are alike. I have the opportunity to work on very different projects and

collaborate with multidisciplinary teams. It's highly gratifying to be able to make your contribution and have an overview of the company's operations. That really comes in handy when developing cross-company solutions.

What about the most difficult?

The usual, **meeting the deadlines**. We can't always start working on a project from the very beginning, and we aren't required to do the same thing in each project. In the end, we need to be flexible and figure out the best way to handle each project and deliver on time without compromising the objectives.

What do you feel the key values are in the company?

The ability to **innovate and adapt to new technology and market trends**. In this quickly-evolving environment, being flexible and committed to the solutions of the future is essential. I think that Televes has proven time and time again that it knows how to do exactly that ■

Televes Corporation®

www.televescorporation.com

TELEVES TO ENHANCE THE HOSPITALITY SECTOR IN THE AMERICAS WITH NEW SUBSIDIARY IN MIAMI

As the hospitality sector grows exponentially and requires specific technologies, Televes is launching its second subsidiary in the United States under the name **Televes Enterprise Solutions LLC** to serve this business vertical throughout the Americas with the same technical know-how and customer support that has defined Televes for more than 60 years in Europe.

The new Televes subsidiary in Miami leverages the experience and market reach the current US subsidiary, Televes USA, located in Colorado, has been successfully building over the last 10 years. **The two subsidiaries will join forces** to consolidate the Televes brand in the rollout of telecommunication networks in hotels, hospitals, and other buildings in the Americas.

Miami is the perfect location from a logistical and economic standpoint to conduct our business for the hospitality sector in both the state of Florida and **countries in the Caribbean and LATAM**.

That is how we will take on the challenge of **implementing advanced technologies for optical multi-service networks** that not only allow the most advanced audiovisual content for users, but also significant CAPEX and OPEX savings on network maintenance on hospitality projects.

The Televes subsidiary Enterprise Solutions, LLC currently focuses on covering **Spanish hotel chains with operations in the Caribbean and Latin America** including Meliá, RIU, Iberostar, Barceló, Marriott, AMResorts, and others, especially in countries like Jamaica, Mexico, and the Dominican Republic ■

H30Crystal field meter

Maximum functionality, also in optical fiber

h30crystal.televes.com

The H30 family has continued to grow and offer new features required by a market that is in constant technological evolution. The pandemic has required us to stay connected via data networks, accelerating the need for high-capacity networks.

Optical fiber is in the limelight in this context, and so is the newest member of the H30 meter series: H30Crystal. This meter maintains all of the characteristics of previous models and includes the possibility of **measuring and analyzing optical signals**.

Its optical power and attenuation functions consider three-lambda measurements, with two options: **normal or selective optical fiber (with WDM)**. Additionally, all of the spectrum analysis, channel information, and functions facilitated by signal interpretation are now applied to optical signals.

H30Crystal also offers a new RF signal measurement feature: parameter measurement for signals from **return paths starting at 5MHz**, also including their visualization on the spectrum.

As the older brother of the portable, compact, and multi-standard H30 meter series, H30Crystal offers a great deal of features:

- Customization of **different DVB and analog standards**.
- Evolution of the equipment with different options, such as: **Wi-Fi, IPTV, analyzer analog A/V or HEVC viewing**.
- **Wi-Fi, bluetooth, and ethernet** connectivity.
- The **multi-screen** feature for viewing and controlling the meter with a smartphone or other mobile device.
- A web interface on the meter and the **H30Suite app** for managing all equipment data.
- **Automatic** detection of **software** updates.
- A full range of accessories.

All of this in an incredibly easy-to-handle and light piece of equipment weighing only half a kilo (1 lb), designed to meet **installers' needs today and tomorrow** ■

IDEA

Aligning satellite dishes with optical LNB

Aligning a satellite dish with optical LNB can pose a number of challenges. The most common one is doing so without a field meter with optical fiber input. Even if one is available, the location of the installation is usually quite far from the distribution point and, as a result, resources such as power supply and plugs are not available. For both of these common cases, we propose two assembly types to align the satellite dish.

■ 1ST CASE: WITH A FIELD METER WITH NO OPTICAL FIBER INPUT

In this case, the optical LNB powering coaxial cable must be preinstalled. Using the converter (Ref. 237003) with a 10dB attenuator in the input to prevent overload, you can directly measure RF and align the satellite dish with a conventional meter. Even if the location does not have connection to the electrical grid to connect the power supply (Ref. 237050) for the converter (Ref 237003), it can be powered with 13V from the meter itself, via the coaxial cable.

■ 2ND CASE: WITH A FIELD METER WITH OPTICAL FIBER, BUT NO OTHER RESOURCES

Even if the pre-installation is not available at the satellite dish location, if you have a meter with O.F., you'll still be able to align the antenna by powering the optical LNB with the meter via the coaxial cable. A 10dB optical attenuator should be installed to prevent overload in the meter's optical input ■


1

Optical LNB
(Ref. 2353)

Optical Converter
(Ref. 237003, 236901)

Optical Attenuator
(Ref. 2365)

13V⎓

H30 Evolution
Field meter

2

Optical LNB
(Ref. 2353)

13V⎓

F.O. Attenuator
(Ref. 236412)

H30Crystal
Field meter

Do I need to clean optical connectors?
What tools should I use?

Whenever you need to connect optical equipment to the fiber optic network, **always clean the connectors** of the hoses or patch cords to be used, even if they are brand new.

Dust or dirt can become lodged in any part of the exposure surface as they are handled, and this can cause issues even in an installation that was working perfectly before, as the installation's previously-clean connectors become contaminated.

For instance, the below pictures show the details of the exposure surface of

INITIAL STATE

Dirty Connector A   Clean Connector B

CONNECTION NOT PREVIOUSLY CLEANED

Connector A   Connector B
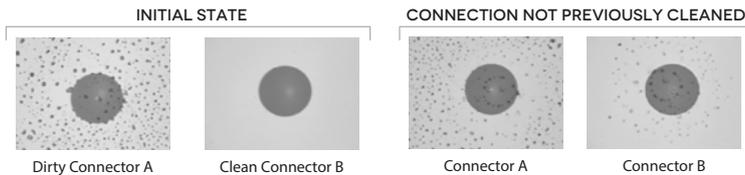
a clean connector and a dirty one, and how a dirty connector can contaminate a clean one. The entire installation could even become contaminated if it is connected at various points that were not cleaned beforehand ■

We recommend the following cleaning tools:

F.O. Cleaning Kit
(Ref. 232710)

Cleaner for F.O. Connectors
(Ref. 232910)

TELEVES FACILITIES

SEA CLOUD SPIRIT

A traditional sailboat
with the latest audiovisual technology

This stunning 110 meter (360 foot)-long, four-mast sailboat was built in 1929 and has been converted into a luxury cruise ship. Its history boasts the onboard presence of powerful tycoons and dignitaries, as in the 1930s and 40s it served as the unofficial US embassy around the world. During World War II, it was converted into a military ship to monitor the coastline.

It has since been restored to its original design and converted into a unique passenger liner, combining tradition and modern luxury.

Televes had the privilege of installing the **entertainment system** in all of its cabins thanks to ArantiaTV solutions applied to the **hospitality sector** ■

Televes focuses on the hospitality sector at ANGACOM DIGITAL

WHERE BROADBAND MEETS CONTENT

This year, our industry's most important event will once again be held fully online. **From June 8 to 10**, its agenda is packed with over 180 speakers and 40 panels.

Televes is focusing on its presence in the hospitality sector with a digital stand describing the **benefits of our telecom infrastructures for hotels and hospitals**, where the establishment's management systems and the most advanced audiovisual services coalesce to users' benefit.

The hospitality sector has become **a strategic pillar of the Televes portfolio**, as it has deployed high-speed, multi-service fiber optic and wireless networks where hotel management can integrate its PMS and BMS software, as well as advanced audiovisual services for guests in a single guaranteed telecom infrastructure. **Televes has developed in-room technology for guests (IPTV, interactive TV, casting, etc.), fiber-to-the-room (FTTR) solutions, Wi-Fi, and digital signage** for hundreds of hotels and hospitals around the world ■

Would you like to learn about how Televes' solutions are enhancing hospitality sector services?

GUILLERMO FERNÁNDEZ

+information at:
en.**televes**.com/**angacom**

IGMP Snooping

Why is Multicast traffic management important on data networks with IPTV services?

IGMP (*Internet Group Management Protocol*) is the protocol used for networks that allow multicast to **exchange data between routes, switches, and hosts** of the same multicast group.

Essentially, all group member hosts inform routers or switches of their membership in the group, and the routers in turn periodically check on their status (if they are members, if they wish to access, or if they've left).

The IGMP protocol includes a function called "snooping" or **IGMP snooping**, which consists of monitoring the network and "listening in" on the traffic produced by the IGMP network protocol. This gives the network routers or switches the opportunity to "listen in" on the cast between them and the hosts. Thanks to this, the routers or switches are able to maintain a map of the connections requiring multicast transmissions allowing them to guide traffic so that only the ports that need that specific traffic get it.

Without IGMP Snooping, multicast traffic would be disseminated to all user or network hosts causing network overload.

This network protocol application is designed to prevent hosts of a local network from receiving unrequested multicast traffic and gives the switches a tool to reject multicast traffic from connections without an active multicast receiver (an IGMP client), causing the network to work more effectively and with better performance.

IGMP Snooping is an extremely useful feature on networks that work with applications using multicast traffic with high transport rates, as is the case of IPTV ■

With IGMP Snooping activated, network traffic is managed effectively.
MC: Multicast Client active.
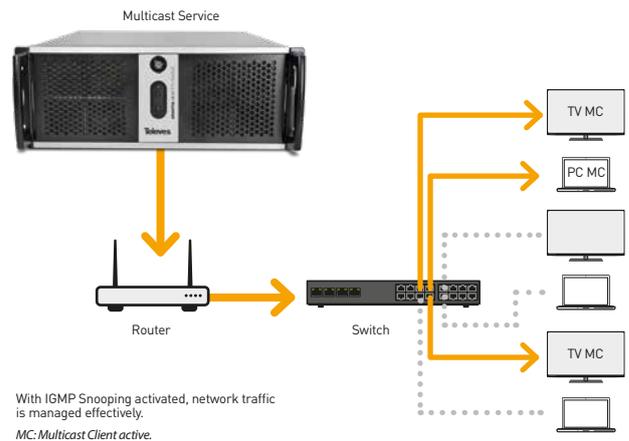
Don't miss it!

Manage your field meters with MyCloud

The MyCloud portal offers unlimited access to manage your MOSAIQ6 meters. **With a highly intuitive web environment, accessible from any internet-connected device** (computer, tablet, smartphone, etc.), **you can work on all user-owned meters**.

The portal has **two-way synchronization** with the meters when they connect to the internet via the Televes cloud, so configurations and data are always secure.

MyCloud improves the experience of individual work, offering ease and speed for remote meter management from anywhere, at any time. This tool also supports **teamwork**, as it allows colleagues to share configurations or clone data between the different meters.

MyCloud is under constant development to offer new features to MOSAIQ6 users.

And it's free!

What are you waiting for?

Go to https://**mycloud**.televes.com

and log into the cloud! ■