Televes®

QUARTERLY NEWSLETTER

INFO

No 72 SEPTEMBER 2024

Europe's Digital Transformation

The European Commission recently published the ***State of the Digital Decade Report 2024***, marking an essential milestone in the **monitoring of Europe's digital transformation**. This annual report assesses progress in four key areas: digital infrastructure, digital skills, digitalization of public services and digitalization of business. It also offers insight into current drivers and challenges, including the **impact of new technologies** such as generative artificial intelligence and the need to keep societies engaged in an increasingly hybrid and complex context.

PROGRESS AND CHALLENGES, A CALL TO ACTION

The report also serves as a wake-up call, urging member states to redouble their efforts. Several major problems are identified, such as the lack of sufficient progress towards established objectives and **significant disparities between Member States**. These problems are analyzed in different clusters, defined in line with their contribution to digital progress.

SPAIN, AN EXAMPLE OF PROGRESS

Spain stands out for its coherent, ambitious roadmap to achieve the objectives of the EU Digital Decade. Our country has made remarkable progress in basic digital skills and in the use of artificial intelligence by companies. **Fiber coverage (FTTx) stands at 95% and 5G mobile coverage at 92%**, placing us at the forefront of connectivity in Europe.

KEY RECOMMENDATIONS FOR THE FUTURE

Three crucial points are raised in order to continue advancing in digitalization:

1. **Cybersecurity**: It is vital to continue to invest in tools that ensure secure, resilient networks.
2. **SME/IA digitalization and data analysis**: Companies should continue to be supported in their digitalization, ensuring the adoption of the next generation of in-building infrastructures.
3. **Connectivity infrastructures**: It is essential to ensure sufficient access to innovative B2B and B2C applications for new players, encouraging operators to accelerate the deployment of 5G networks.

At Televes, we will continue to be committed to driving this digital agenda forward, supporting our customers and collaborating with our business sectors to build a more digital and competitive Europe ■

The report highlights the EU's position as a global innovator in digital policies and stresses the need to strengthen Europe's industrial base

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MEETING POINT

10-11	Septiembre	**Gatubelysningsforum** Estocolmo (Suecia)
27	Septiembre	**Fórum Sanitop** Batalha, Leiria (Portugal)
20-23	Noviembre	**Concreta** Porto (Portugal)

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CELEBRATING AS A FAMILY: TOTAL SUCCESS AT THE TELEVES CORPORATION'S FIRST FAMILY DAYS EVENT

Last July, the Televes Corporation had an unforgettable day with the first edition of Family Days, an event designed to **celebrate our families and employees** with a very special visit to our facilities.

A total of 80 participants, including family members and employees, had the opportunity to take a comprehensive tour of our facilities, designed to show our capabilities and processes in detail. We would like to express our most sincere thanks to the magnificent guides who led the group tours: **Rut Fernández, Alberto López, Juan Virel, Rubén González and José María Soneira**. Their dedication and knowledge made this day an enriching experience for everyone.

The event began with a warm welcome **from our CEO, Santiago Rey**, who highlighted our companies most important asset: people. Afterwards, we divided into smaller groups to begin the tour of the various production areas.

AREAS VISITED

GCE: a company that is part of the corporation that specializes in the production of PCBs. Here, visitors were able to see up close and in detail how we design and manufacture our PCBs layer by layer, as well as the associated quality and verification processes.

ZAMAK area: a compound of zinc, aluminum, magnesium and copper that makes up the metal parts of our products, such as antenna masts and directors, as well as the chassis of field meters, central amplifiers, shunts and sockets.

Plastic parts factory: We explained in detail the entire manufacturing process for our plastic parts, which we receive as small pellets that we melt and shape into pieces of different sizes in orange, white or black, depending on the product and use.

Robotized antenna assembly line: This line, the only one of its kind in the world, amazed everyone with its advanced technology and efficiency in antenna production. Capable of producing up to 7,000 antennas per day.

Showroom: In our showroom, we replicated a number of different environments to showcase our innovative solutions:

- A reception area and a hotel room, highlighting our hospitality solutions.
- A complete apartment equipped with our CareLife health and social care solution.
- A complete aisle in large-scale retail outlet, where we ensured consistency of order in the products displayed in the store.
- The staging of a pontoon for our supply tower in ports and marinas.
- A smart room in a hospital and a social-health room in a nursing home.

Flexible manufacturing line (FMS) and assembly area for SMD and MMIC components: Visitors also explored our advanced flexible manufacturing and assembly lines for SMD *(Surface-Mount Device)* and MMIC *(Monolithic Microwave Integrated Circuit)* components, demonstrating our ability to adapt to different production needs.

CONCLUSION OF THE EVENT

To round off this great day, we all shared drinks and snacks, exchanging impressions and enjoying a celebratory moment of relaxation.

The feedback we have received has been very positive, so given the positive impact and level of demand, we are already organizing the next Family Days at Televes Corporation

CoaxData series with G.hn technology

Turn your business' TV cable into a high-speed network

The coaxial cable network is one of the oldest telecommunications infrastructures and is deployed in all establishments and homes. Although it is most widely used for the transmission of television signals, with the CoaxData system it can be converted into a data network with speeds comparable to fiber optic networks.

The **CoaxData series is a professional solution that leverages existing coaxial cabling, converting it into an ultra-fast Ethernet network**. Any room with a TV outlet can have an Internet connection point, without interfering with the existing TV service.

No construction or renovation work whatsoever is required, making it an ideal solution for **hotels and small and medium-sized businesses that wish to modernize the connectivity of their establishment, without having to interrupt their business activities.**

Developed with G.hn *(Gigabit Home Networking*) technology, it **offers broadband connectivity with speeds of up to 1.7 Gbps in installations with up to 64 end points of connection (wired or Wi-Fi).** The new service can operate over distances of up to 1.8 km, and coexist with existing TV services (terrestrial, satellite or cable) without interference.

At the technical level, the system is based on point-to-multipoint communication, with a **master as the main element, and different nodes as network access multipoints.** The master itself detects the nodes installed and configures the entire network automatically, facilitating the start-up of conventional installations. Expert professionals can also custom-configure network parameters and elements through an intuitive web interface, with a network management, control and provisioning philosophy similar to that of GPON networks.

CoaxData introduces a **CTTR (*Coaxial To The Room*)** technology**, which makes the most of coaxial infrastructure and offers a simplified alternative to FTTR (*Fiber To The Room*)**, so that businesses can modernize their connectivity while remaining operational ■

OUR PEOPLE

Ana Mirás

Customer Support

In this issue, learn more about Ana Mirás, who has a long career in the international department behind her, always providing care and support to our customers and suppliers. Born in Paris, she spent her childhood and adolescence in Germany. Now, from her family base in Galicia, she continues to bring that German character and organization to her day-to-day life.

What is your job at Televes?

Mainly receiving and processing orders from international customers, managing all the information and documentation related to logistics and shipping. We coordinate sales with administration, finance, planning and the Logistics Center, including customs clearance, insurance and payment for the transportation of the goods.

How long have you been with the company? How would you describe your career so far?

I joined the international division in March 1995, at the height of the export boom of our products to the European market. Speaking four languages fluently and having been trained as a Technical Specialist in International Trade opened the door to Televes. And here I am still, with the same enthusiasm as back then, giving our customers around the world the best possible support, because I believe that this and the extra enthusiasm and positive energy that I try to pass on to the customer adds value to our company.

What is the most satisfying part of your job? What about the most difficult part?

Listening to their needs, overcoming obstacles and offering positive solutions, all of which earns the trust of our customers. There is no greater high than receiving emails thanking me for the support provided. It pushes me to grow in my work. If I can also build customer loyalty and make the customer feel identified with us, that is the greatest achievement.

In recent years, the international division has been particularly affected by the constant increases in the price of raw materials such as copper and aluminum. Although we always try to keep the impact on the customer as low as possible, it is a challenge to stay competitive on price.

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

Our customers value the Televes brand for the quality and technological functionality of its products, but I believe that the technical support we offer to professionals in our sector adds an unbeatable plus to brand value - commitment, enthusiasm and service ■

Can I mix elements from different categories in a data network?

Yes, it is technically possible to mix devices of different categories as long as they are mechanically compatible, but **it will be the lowest category element that limits the speed and bandwidth of the entire network.** For this reason it is not recommended if you want to have the network working at maximum level of capacity and performance.

However, this does not mean that using different categories is always a bad choice. It is very common in data infrastructures to choose to install cables of the highest category, but with lower category connectors, with the idea of being prepared for the future. When the time arrives for an upgrade, only the connectors would have to be replaced by others from a higher category. This would be a much simpler and less costly process than changing the cables.

Of all the possible variants, **the most common combination is to use Cat 7 cables with Cat 6A connectors, as this has the least impact on network performance.** Both categories support the same transmission speed (10 Gbps), so combining them would only result in a slight reduction in bandwidth (from 600 to 500 MHz)

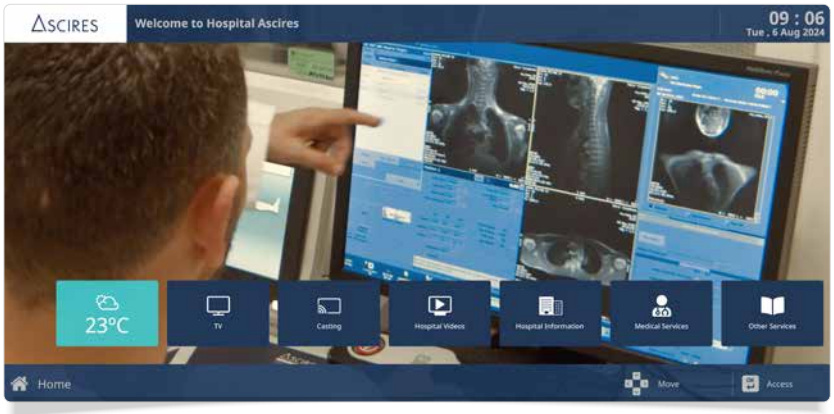
HOTEL RIU PLAZA
(CHICAGO, USA)

The **RIU Plaza Chicago Hotel** is an ideal choice for those seeking a memorable city break in one of the most vibrant cities in the United States. Strategically located in the heart of Chicago, the hotel invites you to immerse yourself in the energy of the city while enjoying comfortable, modern accommodation.

With a **contemporary style** that blends seamlessly with Chicago's architectural aesthetics, the hotel building has **28 floors and 410 guest rooms.** Televes worked with integrator **NETHITS Telecom Global Solutions** to provide the facility with a complete **GPON and RF Overlay network**, as well as the latest **ArantiaCast and ArantiaDS** services**.** State-of-the-art technologies to offer guests **an oasis of tranquility in the midst of the urban hustle and bustle,** elegant decor and all the amenities needed for rest and relaxation after a day exploring the city

IDEA

VOD in the patient recovery process in the health and social care sector



The video on demand service has historically been linked to the entertainment sector, with major changes in recent times that allow people to enjoy a wide range of multimedia content whenever and wherever they want.

This trend is beginning to provide an opportunity in the health and social care sector, offering **a new interactive TV service in the centers, benefiting both professionals and patients.**

Thus, professionals can manage different programs with video tutorials that help patients learn and advance in their therapeutic processes. The development of educational routines with personalized videos for each patient makes it easier for them to become familiar with their specific rehabilitation process and can give it continuity. On the other hand, the professional ensures that the patient has received clear guidelines and all the necessary information to complete his or her stay at the center.

Another related application is seen in care homes, where the development of therapeutic plans with cognitive stimulation videos are in great demand.

VOD offers the possibility to pause, resume and repeat the videos in line with the patient's needs, enabling them to learn at their own pace, and so freeing the professional from repetitive work

Nema or Zhaga, which do I need for my lighting project?

When planning a new outdoor lighting project, an important step is the choice of control interface. There are different standards on the market, **Nema (ANSI C136.41) and Zhaga (book 18) being the most common**. Both allow the connection of remote management nodes for remote management, and the implementation of sensory functionalities (provided the luminaire allows this), such as sensors that detect presence, twilight or pollution.

The Nema standard, created in the USA, is more common in Anglo-Saxon countries, while Zhaga, created recently in Europe, has been very well received in most countries, even in the USA, thanks to its compatibility with *Dali D4i*.

To make the right choice, the following should be considered:

ELECTRICAL CONNECTION

The nodes have different electrical circuits. In the case of *Nema*, the power supply reaches the node first, and then flows from the node to the luminaire. This means that the life of the device tends to be shorter, as it is exposed to power surges as it receives a constant power supply. On the other hand, as it is the node that cuts off the supply to the luminaire, this extends its useful life as it is not connected during the day.

In *Zhaga*, power is supplied first to the luminaire, and the node is powered by an auxiliary source. As it is not directly connected, its lifetime is longer when compared to Nema.

DISTRIBUTION OF FUNCTIONS

The main functions of the nodes are: to enable the connection and regulation of the lighting control interface. Depending on how they are connected, they can acquire other functions. With *Nema*, they acquire the function of surge protection, energy metering and load switching. In addition, they act as a low voltage AC/DC transformer.

In the *Zhaga* standard, these functions are performed by the driver, so the node is simplified, requires fewer components and is more compact in size.

SUPPORTED DATA AND SIGNALS

Nema is more open and supports both analog and digital signals, offering great versatility in the choice of luminaire peripherals. In contrast, *Zhaga* is more defined, but although it uses only digital signals, its data standardization facilitates interoperability. Thus, only Zhaga guarantees that compatible peripherals will be able to make use of 100% of its functionalities.

In conclusion, **both systems serve similar use cases, but have a number of characteristics, both electrical and mechanical, that make a difference when choosing the most suitable one**. Analyzing the specific needs of each installation and taking into account future upgrades is essential to make the right choice. At Televes, we know that every lighting project is different, and for this reason, all our ranges of remote-controlled luminaires offer two connectivity options: **the N series with Nema connection, and the Z series with Zhaga connection** ■

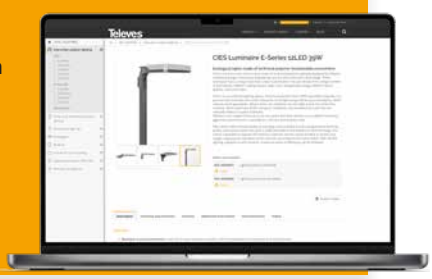
Don't miss it!

All the information about our luminaires can be found at www.televes.com

We have updated our website with new comprehensive datasheets on our range of lighting products. We know that having access to accurate detailed information is essential to make informed decisions and optimize the use of our luminaires. Our commitment is to provide you with all the necessary tools so that you can get to know each luminaire in depth and gain full benefit from its advantages. This update is part of our ongoing effort to **improve the experience of the professionals who trust us to carry out their professional lighting projects**.

We invite you to visit our website and explore our new datasheets. These are some of the new points you will find:

- Different ranges by field of application
- Differential characteristics and technical specifications
- Options for configuring a luminaire (management, optics, color temperatures and more)
- Technical documentation and files of interest ■



ALL THE FUNCTIONS YOU NEED, ALSO IN FIBER OPTICS

H30 CRYSTAL

H30Crystal is the portable and multi-standard spectrum analyzer, which completes the H30 range with powerful fibre optic functionality, present in all modern telecommunication infrastructures.

SERVICES AND IPTV ANALYZER
IPTV and RF services information

OPTICAL MEASUREMENTS
Accurate analysis for high-capacity networks

WI-FI ANALYSER
All bands (2.4 and 5 GHz)

MULTISCREEN AND REMOTE CONTROL
Controllable from any Android or iOS device or a PC

ULTRA HD 4K

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