Digital workflows at Cineteca Nacional with Rohde & Schwarz products

Cineteca Nacional, Mexico city, main entrance.

At a glance

Cineteca Nacional – the Mexican national film archive – has established a digital workflow for efficient archiving and playout of film material and to ensure they have the most up-to-date workflows that will grow with their requirements.

Four R&S®SpycerBox Ultra TL systems are at the core of the workflow, quickly and reliably providing film data for further processing. The R&S®CLIPSTER mastering station is used for transcoding and for creating proxies. R&S®Fuze finalizes all material in different formats and also creates digital cinema packages (DCP).

Executive summary

ı **Customer:** Cineteca Nacional, Mexico
ı **Task:** Digitization of archived films to ensure preservation and access to cinema material
ı **Challenge:** Installation of a modern, space-saving and dependable archive
ı **Solution/product:** Based on the following Rohde & Schwarz products: four R&S®SpycerBox Ultra TL, one R&S®CLIPSTER, two R&S®Fuze
ı **Key benefits:** Future-safe and reliable solution that seamlessly fits into Cineteca Nacional's IT infrastructure

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The situation

Established in 1974 as the Mexican national film archive, Cineteca Nacional is home to the most important film heritage of Latin America. As a public organization, it is in charge of the collection, restoration, and preservation of the Mexican film heritage. Serving to reflect and preserve both the historical and cultural values of Mexico, Cinteca Nacional archives film material. To realize a modern, space-saving and dependable archive, Cineteca Nacional digitizes the archived film.

The task

The Digital Restoration Department of Cineteca Nacional was looking to expand its infrastructure to adapt to changing requirements. Thanks to the success of many projects in the past, more and more organizations are approaching Cineteca Nacional for their advice, resulting in an increasing number of projects.

They decided to opt for future-safe and reliable Rohde & Schwarz equipment to expand their technology infrastructure and to ensure that cinema material is preserved and can be accessed. As a SAN-in-a-box solution, R&S®SpycerBox integrates easily into existing workflows.

Cineteca Nacional was looking for equipment that could easily be integrated into their existing workflows and also expanded to meet future requirements.
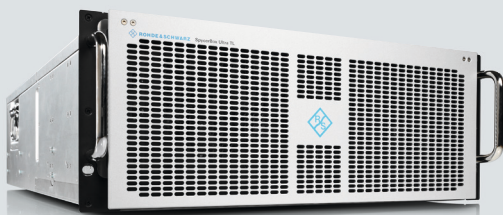
Rohde & Schwarz solution

Rohde & Schwarz provided an ideal solution for Cineteca National by integrating four R&S®SpycerBox Ultra TL devices, one R&S®CLIPSTER and two R&S®Fuze devices into their workflows. R&S®SpycerBox Ultra TL offers additional storage capacity while the R&S®SpycerBox ensures high perfomance.

Cineteca Nacional uses a digital workflow to optimally archive sensitive film data. Films are digitized, restored and then saved digitally. Cineteca Nacional creates digital cinema packages in line with DCI specifications. These packages can be transferred to cinemas worldwide.

The R&S®SpycerBox Ultra TL systems are the central storage solutions at Cineteca Nacional, and all clients are connected to it. The R&S®SpycerBox technology works on high-performance workflows irrespective of the file format, such as 3K, 2K, SD, HD, stereoscopic and uncompressed. Connecting to any network is easy for R&S®SpycerBox.

When it's time to expand, Cineteca Nacional can add R&S®SpycerBox family systems to add more performance and storage capacity to its workflows. A huge benefit is that the R&S®SpycerBox still has plenty of available bandwidth so that adding an additional four channels is a simple plug and play operation. There is no need to shut down the system, repartition any volumes or buy additional hard drives.

R&S®SpycerBox Ultra TL is designed to meet the requirements of high capacity workflows and has a wide variety of connectivity options.

R&S®Fuze is a powerful digital cinema delivery system for DCI mastering.

R&S®CLIPSTER is the industry's renowned mastering station that is fine tuned for different stages of production.
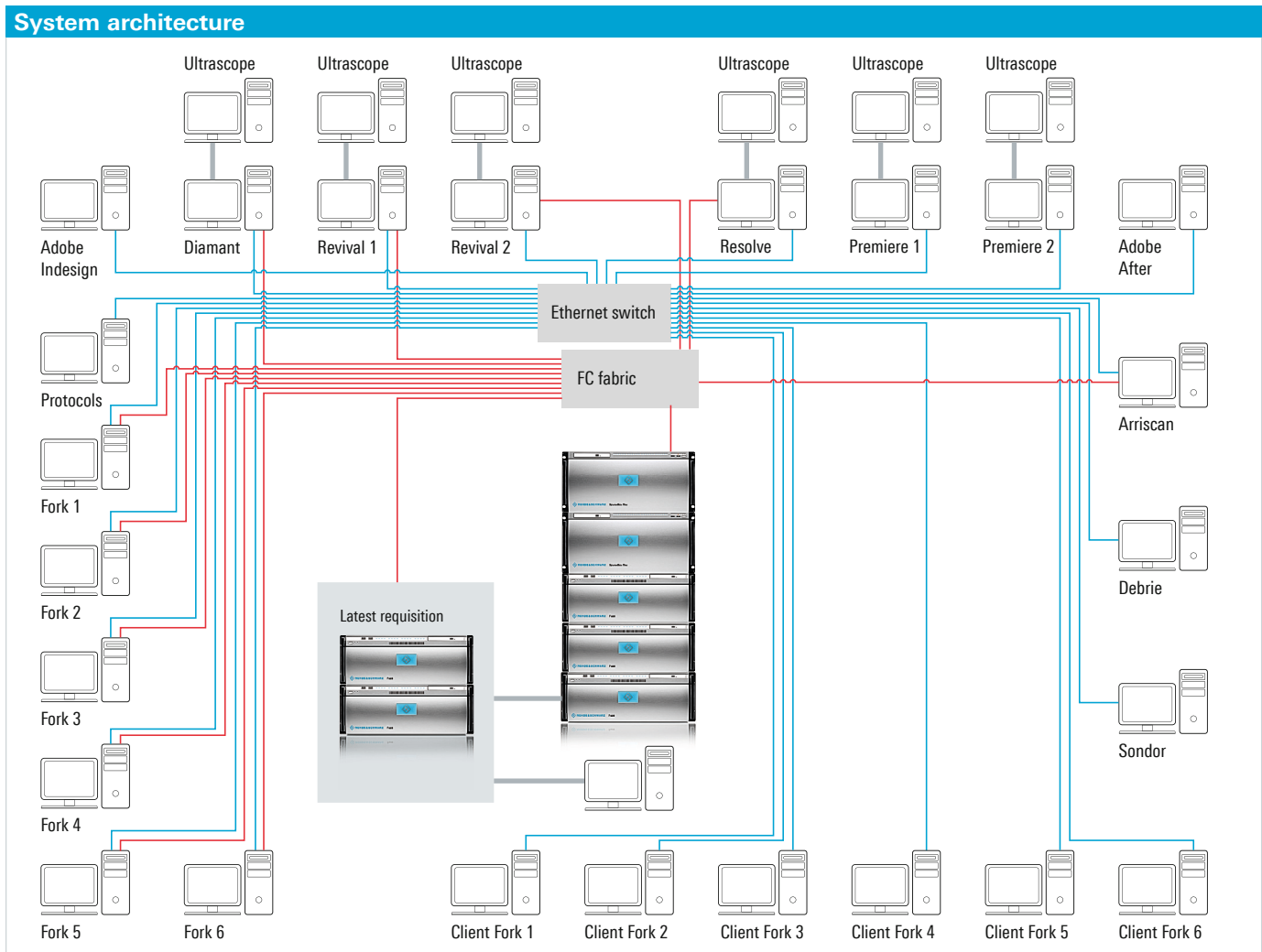
Server room where the sytems are located and operated.

Workflow example

Material to be archived is digitized with ARRISCAN 3k in 8 mm, 58 mm, 9.5 mm and 16 mm formats with HD and 2K resolution, and all media is transferred via 10 Gigabit Ethernet. All material is then saved on R&S®SpycerBox Ultra TL. R&S®SpycerBox Ultra TL with its open storage architecture fits seamlessly into Cineteca Nacional's IT infrastructure. It serves as a central storage solution and enables fast data exchange. Operators at all workstations can directly access the system and have multiple transfer options. They especially appreciate that the data can conveniently be distributed across the entire network. It serves as the backup solution for all scanned material.

The R&S®CLIPSTER mastering station plays a vital role in Cineteca Nacional's 2K workflow. On the one hand, it is used to transcode the 3K content coming from the film scanners. It is also used to generate proxies and deliver the final product in DCP for exhibition in cinema rooms. Additionally, R&S®CLIPSTER and R&S®Fuze are used to provide service to ten exhibition rooms. For those subsidiaries that do not yet have their own digital projector – either in Mexico City or in another city – the content is transcoded to DVD and Blu-ray formats.

System architecture

Service that adds value

- Worldwide
- Local and personalized
- Customized and flexible
- Uncompromising quality
- Long-term dependability

About Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, secure communications, cybersecurity, radiomonitoring and radiolocation. Founded more than 80 years ago, the independent company which is headquartered in Munich, Germany, has an extensive sales and service network with locations in more than 70 countries.

Sustainable product design

- Environmental compatibility and eco-footprint
- Energy efficiency and low emissions
- Longevity and optimized total cost of ownership

Certified Quality Management
ISO 9001

Certified Environmental Management
ISO 14001

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