Mainconsole Guards
Costa Rican Hydroelectricity Plant

Organization :
Proyecto Hidroeléctrico
Reventazón ICE

Location :
Costa Rica

Industry Segment :
Government

Solution :
NUUO Mainconsole IP+

ICE stands for Instituto Costarricense de Electricidad. It is the Costa Rican government owned electricity and telecommunications services provider and generates annual revenues of around $1,844 million. One of their biggest projects in Central America is undoubtedly the Proyecto Hidroeléctrico Reventazón, or the Reventazón Hydroelectric Project. This project aims to construct a 305.5 MW hydropower plant in the Limon Province in Costa Rica, using waters from the Reventazón River to generate an average of 1,407 gigawatt-hour (GWh) of electricity per year. Once completed, the plant will represent approximately 10 percent of Costa Rica's total installed electricity generation capacity.

This project will not only help Costa Rica address its growing demand for electricity but also contribute to the country's goal of reducing its carbon emissions,'' said Jean-Marc Aboussouan, who heads infrastructure financing for private sector projects at the IDB's Structured and Corporate Finance Department. "Moreover, the successful implementation of the environmental and social elements in this project will provide an important model for hydroelectric projects in Latin America.

Approximately 3,000 workers work over a wide range of area involved in this project, and demand for security is huge in order to provide a safe and secure ground for workers and for management to monitor project progress. For unparalleled flexibility and NVR features, the system integrator chose NUUO Mainconsole solutions for this particular site. "NUUO products are very easy to install and we have great success with the solutions they offer from NUUO," said Steve Herra Villalobos, coordinator of department of electronic security.

NUUO Mainconsole is among one of NUUO's best VMS solutions for enterprises. Stable, flexible, with easy integration options. NUUO Mainconsole is very easy to use and features special Tri-brid solution that incorporates both analog and digital camera inputs along with a capture card for maximum compatibility benefits.

For a project as large as the hydroelectric project it is paramount to have local and remote viewing functions available along with efficient management of cameras spread through a large surrounding area. NUUO Mainconsole, outfitted with multi-stream capability that efficiently adjust streaming quality depending on viewing environments and connections speeds, can ensure the best viewing experience under any environment. Multi-stream means high resolution views can be streamed to the local viewing ports, and smaller, more efficient videos to the remote viewing app, saving precious bandwidth and ensure smooth video loading.

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NUUO Mainconsole also provides additional features that were crucial for the project requirements. Individual recording channel data retention function allowed the project managers to keep video data for up to 45 days, and is available by individual channels, thus allowing considerable hard disk savings. NUUO Mainconsole also came with advanced video analytics with license plate recognition for additional security benefits.
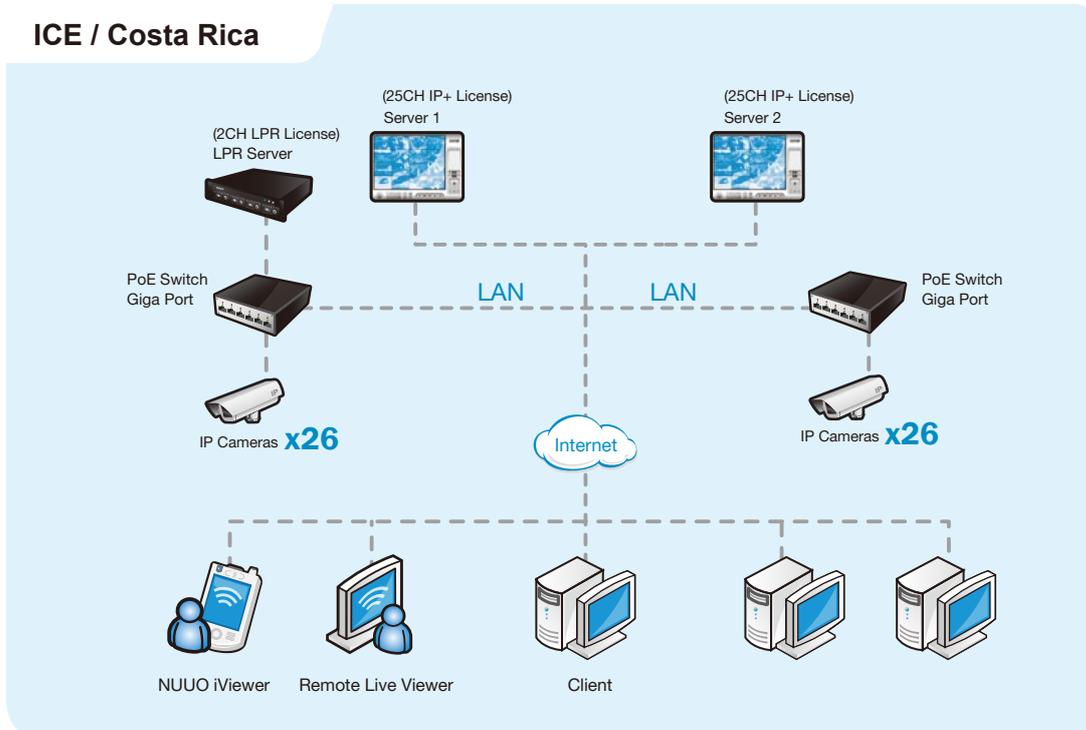
Flexible, intelligent, powerful. These are the main benefits of NUUO Mainconsole. NUUO Mainconsole is the best choice when you have existing older analog systems but wants to upgrade to IP cams. It provides seamless integration between older and newer types of cameras. Mainconsole is also flexible. Choose from different combinations between software, capture card, and certified hybrid machines to ensure optimum performance. The configuration option is limitless. For more information, please visit our product page.

Device & Software List

- Cameras :
  - D-Link DCS7413 x 20
  - D-Link DCS7316 x 2
  - D-Link DCS7110 x 8
  - D-Link DCS6818 x 7
  - D-Link DCS6510 x 10
  - D-Link DCS6110 x 1
  - D-Link 930L x 1
  - Acti ACM1432 x 2
  - Zavio V111T x 3

- Recording Servers :
  - NUUO Mainconsole IP+ License
  - NUUO Metadata LPR Servers
- Client Software :
  - NUUO Remote Live Viewer
  - NUUO iViewer Mobile App
- Switch :
  - Cisco 3560G Wired Switch x 2

Project Architecture

ICE / Costa Rica

Project Photos

FC SOLUCIONES TECNOLOGICAS is a group of professionals that ensure the smooth operation of customer´s projects in the field of electronic security and data communication. It is a company that focuses in the market of computer equipment, electrical technology, design, consulting, maintenance and service of specialized telecommunications.

The company specializes in electronic system integration and its fundamentals, which covers the up-to-date application, accessories for optical fiber usage, computers and certifiers of various kinds. The technical department of the company has been certified by many different manufacturers which we represent in the region, such as UTP cable, optical fiber, wireless data transmission and many others.