CASE STUDY

Workflowlabs

Powering the World's Largest Playout Facility with Workflowlabs

PROJECT OVERVIEW:

Workflowlabs, in collaboration with its partners VTIPL and Decision Plus Systems, has partnered with the Government of India to develop a large-scale media infrastructure designed to expand nationwide access to educational content. This initiative aims to make quality education more accessible across the country through advanced media and broadcast technology. This ambitious project required a robust and scalable solution capable of handling high media workloads with extensive automation for maximum efficiency and reach.

SOLUTIONS OVERVIEW:

Workflowlabs delivered a comprehensive automation solution that powers 500 TV channels, streamlining every stage of the workflow - from media gathering and conversion to scheduling, playout, media management, and archiving. The Newsflow Media Gathering Platform enables hundreds of educators, content creators, and administrators across India to send media seamlessly to the main facility.

A 35-node Cobalt transcoding cluster, with a processing capacity of 140 hours of HD media per hour, ensures efficient transcoding to standardized formats.

The core storage infrastructure integrates Dell-EMC PowerScale for scalable storage, while Karthavya QuickEdge Automation and Nitro servers form the backbone of the playout facility. Nearly 100 video servers manage up to 800 video ports, supporting the smooth operation of 500 channels.

The Fusion asset management solution orchestrates the extensive media flow and handles archiving, with a high-speed core network facilitating rapid data transfers.

Automation and Customization for Enhanced Performance:

Workflowlabs implemented substantial automation throughout the facility, developing custom utilities specifically for scheduling and playout to reduce manual effort. Automated deployment across hundreds of servers significantly shortened setup times, while high-density Nitro video servers and tailored automation workflows minimized downtime and reduced maintenance needs. This extensive automation enables efficient facility operations with minimal manpower.

Results:

This large-scale installation is managed with minimal manpower, showcasing the power and efficiency that advanced automation can deliver. It demonstrates how optimized workflows and cutting-edge automation technology reduce the need for manual intervention, improve reliability, and enhance operational scalability. This project demonstrates Workflowlabs' expertise in delivering resilient, highly automated solutions for large-scale media and broadcast projects.