

ABSTRACT

<http://aimsalliance.org>

AIMS GUIDELINES TO PREPARING BROADCAST FACILITIES FOR IP-BASED LIVE TV PRODUCTION

Key Points Relative to Designing for Operations
in All Studio Environments – APRIL 2017

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The Alliance for IP Media Solutions (AIMS) is a non-profit trade organization founded by leading companies to foster the adoption of industry standards for the broadcast and media industry as it transitions from SDI to IP.



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ABSTRACT

Now that the television industry's call for interoperability across the next-generation production supply chain has been answered by vendors worldwide, broadcasters can confidently pursue their transitions to IP with minimal disruption by following certain basic guidelines.

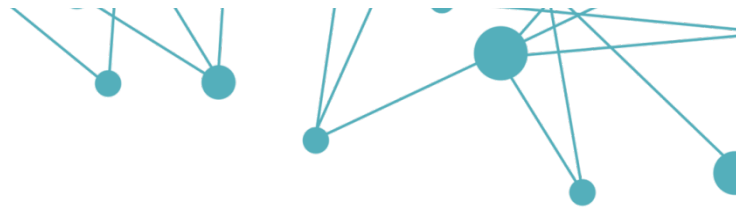
Many broadcasters are already in various stages of IP transformation using products mapped to the Alliance for IP Media Solutions' interoperability framework in their live productions. These experiences are providing real-world confirmation that production infrastructures relying on IP technology operate as intended to deliver significant benefits over traditional SDI-based facilities. As a result, broadcasters everywhere can proceed with their transitions to IP, knowing that products incorporating the AIMS-endorsed protocols can be mixed and matched to fit each buyer's requirements.

The purpose of this document is to help broadcasters make the transition as trouble-free as possible by highlighting the many things that need to be taken into account in the design of IP-based production facilities, from the smallest studios to the most complex multi-location environments. The good news for producers, directors, engineers and their staffs is that the basic workflows long followed in live TV production remain unchanged, eliminating any need for learning new procedures while ensuring they can gracefully migrate to IP in mixed environments where SDI-based equipment remains in operation.



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White Paper Contents

This white paper will cover the following topics:

- Accommodating Hybrid Operations with SDI-Based Facilities
 - IP-Based Production for UHD
 - Switching in Hybrid Scenarios
 - Addressing the Audio Question
- Planning for IP-Based Production in Simple Studio Environments
 - A Simplified Approach to Redundancy
 - Device Discovery and Registration
 - The Role of IGMP in IP Switch Routing
 - Supporting Synchronization
- Designing for Large Studios in One Location
 - Planning for a Spine / Leaf Switching Topology
 - Going Beyond IGMP in Setting Up Switch Routing Control
- Designing for Production Extending Over Multiple Locations
 - Choosing Time Domain Set-up and Modes of Synchronization
 - The Benefits and Design Implications of Using Diverse Control Domains

Once published, this paper will be available from the AIMS website

<http://aimsalliance.org>