

## Harris Interoperability

# ONE



Harris Corporation has embarked on the next step in its ONE initiative for broadcasters, offering a range of interoperable workflows, integrated technologies and innovative solutions that enable broadcasters to seamlessly move content and information between products, systems and facilities — and around the world. This approach creates efficiencies that today's broadcasters need to stay competitive.

# A Focus on Interoperability

The proliferation of digital technology is affording broadcasters tremendous flexibility — more channels, more services, new technologies and new ways to generate revenues. But with flexibility comes complexity. The “digital revolution” brought with it numerous standards and interconnection issues and an increased need to validate the interoperability of components. Without assurance that system components respond appropriately, accurately and immediately to each other, there’s no way to guarantee the efficiency of a system.

That’s why Harris is focusing on interoperability.

By leveraging interoperability based on open industry standards, Harris is enabling broadcasters to avoid expensive and time-consuming installation hassles, conserve valuable rack space and implement high-value systems that work seamlessly together over the life of their investment.

## A Standards-Based Approach

Harris has long been a leader in the development and implementation of industry standards such as AFD, BXF, MXF,

MOS and MPEG-2. Ensuring the consistent utilization and application of these standards is a company-wide priority.

The Harris commitment to industry standards and true interoperability — as demonstrated by the construction of our first-of-its-kind Interoperability Lab (see box) — provide you with an assurance that Harris systems and products will integrate seamlessly into any configuration.

Interoperability Check List								
Product	Physical “The Plumbing”			Interface “The Wrappers”		“The Media”		
	Video	Audio	Control Data	Transport	Control	Video	Audio	Meta Data
	PAL, NISTC, SDI, HD-SDI	Analog, SPDIF, AES	GPI, Serial, IP	Analog, Digital, MXF, AAF, BXF	Transcode, Payout, Ingest	Uncompressed, MPEG2, MPEG4, GOP Structure	Uncompressed, MP3	ODBC, AFD
	Coaxial, Fibre	Coax, Fibre, Twisted Pair	Twisted Pair, Fibre, Cat-5	FTP, Baseband, VACP	VDPCP, BVW, SNMP	SD, HD, sample rate, bit depth	sample rate, bit depth, surround sound	Retrieve, SQL, Oracle
Routing	✓	✓	✓		✓			
Distribution/Compression	✓	✓	✓			✓	✓	✓
Server	✓	✓	✓	✓	✓	✓	✓	✓
Automation			✓	✓	✓	✓	✓	✓
Traffic and Billing				✓		✓	✓	✓
NLE	✓	✓	✓	✓	✓	✓	✓	✓
Asset Management			✓	✓	✓	✓	✓	✓
Graphics	✓	✓	✓	✓	✓	✓	✓	✓
Processing	✓	✓	✓			✓	✓	✓
Mixing/Switching	✓	✓	✓	✓	✓	✓	✓	✓
IP Routing				✓	✓			

This check list is a valuable tool for ensuring product interoperability when upgrading or building a facility.

# Interoperable Workflows Enable Efficiency and Improvement



## The Interoperability Lab

Harris is making the commitment to validate and certify the interoperability of not only our products, but of third-party products as well. The \$2.5 million Harris Interoperability Lab in Toronto, the first of its kind, houses 43 racks of equipment spanning every major Harris Broadcast product line. The Lab will validate and certify the interoperability of Harris products and technologies, resulting in significantly improved product reliability and the delivery of efficient, tailored solutions that contribute directly to our customers' bottom line.

Harris offers interoperable, integrated and innovative solutions for a range of current and emerging broadcast workflows:

### Media Workflow Solutions

In the battle for ad dollars and viewers, streamlined media workflows — with tight interoperability between automation, traffic, sales and billing and digital asset management applications — have become essential to today's broadcasters. Harris is integrating the BXF software standard into its full suite of software applications and setting a new standard in interoperable media workflows enabling broadcasters to more efficiently manage resources, assets and revenues.

### Production Workflow Solutions

To keep pace in the highly competitive news and sports markets, broadcasters are turning to high definition and looking to migrate in ways that won't affect their productivity or impact their on-air product during the transition. Harris tackles this challenge with end-to-end, interoperable, HD/SD news and sports solutions that integrate seamlessly into broadcast operations, provide a clear upgrade path and enable unmatched speed to air.

### Channel Playout Solutions

Flexible playout systems that offer options for automated content flow and high-impact graphics and crawls are at a premium for broadcasters looking to new revenue streams. To meet customers' varied requirements, Harris provides a full range of scalable, automated channel playout solutions — from specialty channels to fully automated, multichannel playout systems with integrated master control — enabling broadcast operations to add channels without adding payroll and easily differentiate their on-air look from the competitors.

### 3 Gb/s Solutions

Harris is making it easy for broadcasters to affordably migrate to the emerging 1080p high-definition format. From signal processing and video servers to multiviewers and fiber solutions, Harris offers the industry's most comprehensive range of 3 Gb/s-ready products. And because most of our 3 Gb/s products are software-keyed — customers don't pay for 3 Gb/s support until they need it.

### Multiplatform Delivery Solutions

Today's broadcasters are challenged with readying their content for multiple applications and channeling it through the right pipe, in the right format, at the right time. To help customers keep pace, Harris offers encoding and networking solutions for all content contribution, distribution, transmission or retransmission applications. Whether the requirement is to move content inside the plant or across the country, Harris provides a flexible, end-to-end solution to streamline any delivery workflow.

## **ONE Company for Workflow Solutions Throughout the Broadcast Chain**

Harris is the ONE company delivering interoperable workflow solutions across the entire broadcast delivery chain — providing today's broadcaster with a single, integrated approach to capitalize on the benefits of IT and mobile applications. By providing unparalleled interoperability across our product portfolio, Harris is able to offer customers integrated solutions that improve workflows, save money, enable new revenue streams and provide a migration path to emerging media business models. To meet the evolving needs of broadcast, distribution, government agencies and entertainment businesses, Harris is the ONE answer for change.

## **Service And Support**

At Harris, we are committed to customer service excellence. It is our goal to provide the highest level of support by applying a simple rule: We take ownership of helping our customers succeed. Our support teams consist of innovative technical experts who support all situations regarding product performance, integration and operational processing. We are adept at providing proven solutions, making workflows better and ensuring reliability of the product and system. At Harris, our experienced and dedicated teams stand ready to help you meet your goals for premium product performance, 100% up-time and reduced maintenance investment.

## **Warranty**

Because we want to assure you that Harris stands beside its products and system solutions, our products carry a standard set of warranty services, which are competitive with — and in some cases outperform — others in the industry.

## **Service Packages**

We offer value-add services that allow you to customize the level of services you need in meeting mission-critical performance levels. Our service package options offer many ways to upgrade your standard warranty by choosing the All-Inclusive OnePak, or by selecting individual services from our extensive portfolio. Our service and support advisors can assist in the selection of the individual services that best suit your requirements.

<b>North America</b>	+1 800 231 9673
<b>Caribbean and Latin America</b>	+1 786 437 1960
<b>Europe, Middle East and Africa</b>	+44 (0) 118 964 8000
<b>Asia, Pacific Rim</b>	+852 2776 0628

**For more information please visit [www.broadcast.harris.com](http://www.broadcast.harris.com).**

Harris is a registered trademark of Harris Corporation. Trademarks and tradenames are the property of their respective companies.



Broadcast Communications  
4393 Digital Way | Mason, OH USA 45040 | Tel: 1 (513) 459 3400  
[www.broadcast.harris.com](http://www.broadcast.harris.com)

©2008 Harris Corporation  
INTEROP\_2008\_0308