

The image features the Harris logo in the top left corner, consisting of the word "HARRIS" in a bold, italicized, sans-serif font with a registered trademark symbol, and a stylized lightning bolt graphic to its left. The background is a dark, abstract composition of overlapping, semi-transparent red and white rectangular and cylindrical shapes that create a sense of depth and movement. On the right side, a tall, complex metal lattice tower is visible, densely packed with various antennas and satellite dishes, representing a telecommunications infrastructure. The overall color palette is dominated by deep reds, blacks, and metallic grays, with the white text and tower elements providing high contrast.

**HARRIS<sup>®</sup>**

**Complete System Deployment  
for DVB-T/DVB-T2**

# The Harris Advantage for DVB-T/DVB-T2 Integration

As global broadcasters seek new opportunities to diversify programming, improve operational efficiency and generate new revenue streams, realizing the full capabilities of new and emerging standards for digital broadcast, such as DVB-T/T2, is crucial.

Harris has demonstrated a long-standing dedication to meeting the needs of broadcasters as they embrace these new technologies, and now offers the most complete and cost-effective DVB-T2 solution available. With Harris, broadcasters can more effectively deliver SD, HD and mobile TV channels to fixed and mobile/handheld devices. Our comprehensive product portfolio includes transmitters, gap fillers, MPEG-4 SD and HD encoders, multiplexers, and single- and multi-frequency network adapters in an integrated system, ensuring customers need turn to only one provider for sourcing, installation and deployment of DVB-T2 solutions.

## Transmission Solutions for: UHF Broadcasters

### Maxiva™ UAX

The Maxiva™ UAX air-cooled, UHF solid-state transmitter incorporates Harris® PowerSmart® and proven Apex M2X™ multimedia exciter technology to provide today's broadcaster unmatched performance, reliability and quality. Designed with future broadcasting needs in mind, the Maxiva UAX transmitter is a compact, cost-efficient solution for DVB-T2.

### Maxiva™ ULX

The Maxiva™ ULX liquid-cooled, UHF solid-state transmitter provides today's multimedia broadcasters with an easy to maintain and operate transmitter for DVB-T2. Featuring PowerSmart technology and the Apex M2X multimedia exciter at its core, the Maxiva ULX transmitter is an ideal solution for any analog broadcaster planning a future transition to digital terrestrial broadcasting and looking to enrich their offering with Mobile TV.

### Maxiva™ UAX Compact Class

The Maxiva™ UAX Compact Class air-cooled, UHF solid-state transmitter incorporates PowerSmart and Apex M2X multimedia exciter technology into a cost-efficient model. It provides today's low-power broadcaster with a transmitter, gap filler or transposer solution that delivers unmatched performance, reliability and quality in an innovative product that sets new standards for this power range. Designed with future broadcasting needs in mind, Maxiva UAX Compact Class is a single-transmitter platform capable of DVB-T2 and other digital standards.

## VHF Broadcasters

### Platinum™ VAX

The Platinum™ VAX air-cooled, VHF solid-state transmitter incorporates PowerSmart technology and the Apex M2X multimedia exciter to deliver the best possible RF efficiency in the VHF spectrum for today's multimedia broadcaster. Designed with future broadcasting needs in mind, Platinum VAX is a single-transmitter platform capable of multiple modulation schemes for Band III VHF analog or digital operation, including DVB-T2.

### Platinum™ VLX

The Platinum™ VLX liquid-cooled, VHF solid-state transmitter incorporates PowerSmart technology and the Apex M2X multimedia exciter to provide today's broadcaster with unmatched performance, reliability and quality for DVB-T2. The Platinum VLX transmitter also delivers a flawless digital signal that complies with technical and regulatory standards for all multimedia and mobile television services.



# Encoding and Transport Solution

## Selenio™ Media Convergence Platform

The Selenio™ media convergence platform was designed to simplify multi-distribution, digital workflows, making it ideally suited to address the challenges broadcasters face as they migrate to DVB-T/T2 systems. In a single, high-density 3RU platform, Selenio combines traditional baseband video and audio processing, compression and IP networking, along with a built-in DVB-T2 gateway and single-frequency network (SFN) adapter. This unique combination delivers a “Video Head End in a Box,” providing everything needed to implement a DVB-T/T2 VHE workflow:

- Routing of any audio/video signal type: SDI, HD-SDI, ASI, IP, 3 Gb/s
- Support for MPEG-2 and H.264 compression standards from SD and 3D to 3 Gb/s and mobile
- Audio/video multiplexing
- Embedded network management system (NMS) with redundant controller hardware
- Built-in SFN adapter
- Built-in DVB-T2 gateway

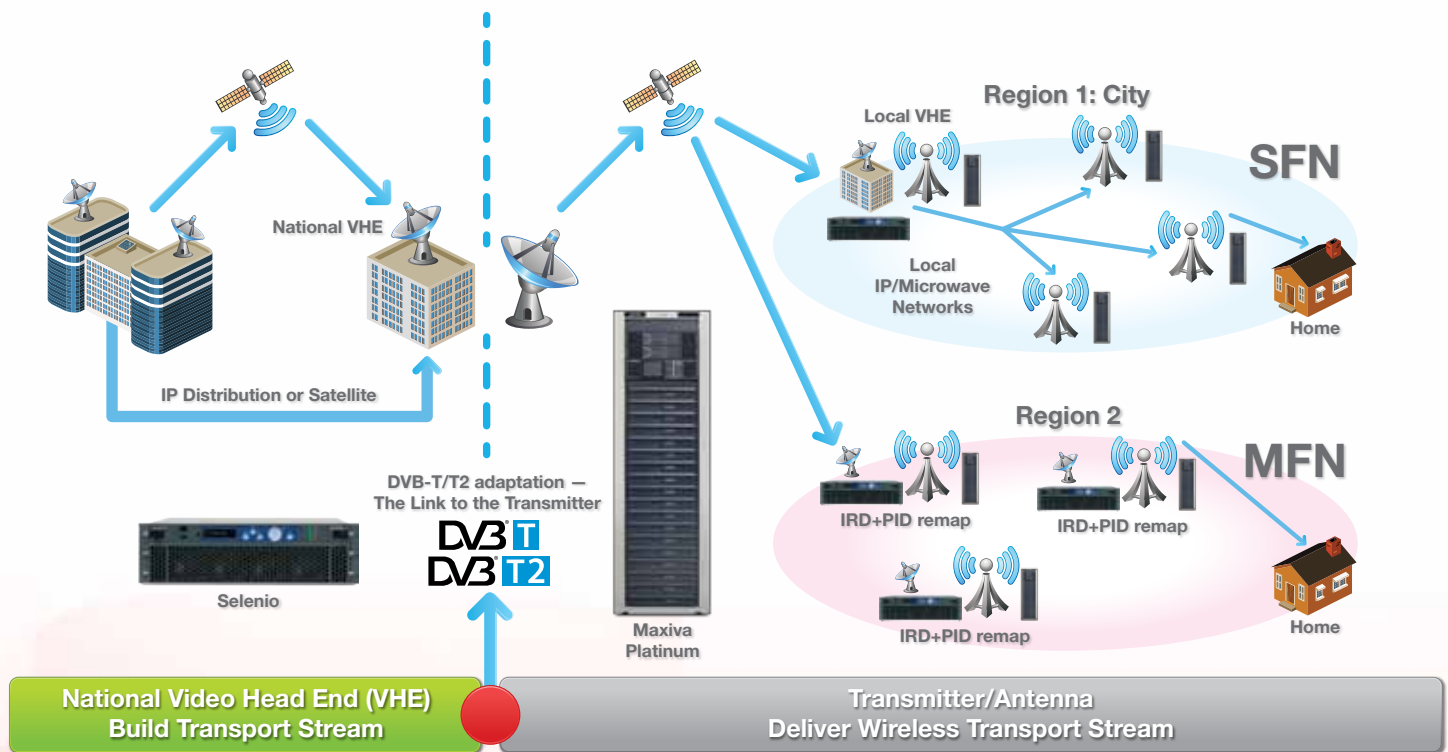
### DVB-T2 Gateway

The built-in DVB-T2 gateway is a particularly integral part of the overall Harris DVB-T2 solution. It encapsulates DVB/MPEG transport streams (TS) into Physical Layer Pipes (PLP), authors in-band channel signaling and orchestrates DVB-T2 transmitters with both SFN time synchronization and transmitter control.

The Harris DVB-T2 gateway is required between a service multiplexer and a DVB-T2 modulator. As the MPEG-2 TS enters the gateway, it is encapsulated into DVB-T2 baseband frames. In-band control and signaling are automatically authored based on validated modulation parameters entered through the intuitive, web-based GUI. SFN network synchronization is achieved by highly accurate and deterministic timestamps, which can be generated by the gateway's GPS receiver. All of this is then encapsulated into a DVB-T2 modular interface (T2-MI) MPEG TS for distribution to DVB-T2 modulators, such as the Maxiva product line.

Not all gateways are engineered to be equal, and the effectiveness of DVB-T2 is a function of implementation choices in the gateway. The Harris DVB-T2 gateway is specifically designed to help maximize user-throughput across both single- and multi-PLP broadcast.

## DVB-T2 Workflow



## ONE Company for Workflow Solutions Throughout the Media Chain

Harris is the ONE company delivering interoperable workflow solutions across the entire media 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 and Africa</b>	+44 118 964 8200
<b>Middle East and South Asia</b>	+971 4 433 8250
<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 Division  
9800 South Meridian Boulevard, Suite 300 | Englewood, CO USA 80112 | Tel: +1 303 476 5000  
[www.broadcast.harris.com](http://www.broadcast.harris.com)