

# EDIUS 7 NONLINEAR EDITING SOFTWARE

## BUSINESS CASE

- EDIUS® 7 empowers editors with superior real-time workflows in all resolutions. With no rendering, editors can have a non-stop creative process leading to faster editing and a more engaging finished product.
- With no limitations to the number of audio, video, graphics, and title tracks, EDIUS 7 can handle the most complex projects, even with 4K.
- EDIUS Elite 7 is a systemized version of EDIUS 7 specifically designed for the networked production environment. EDIUS Elite 7 opens up editing stations to include K2 server/storage and Grass Valley® STRATUS® connectivity, with the ability for multiple editors to access and work on the same material simultaneously, even while recording.
- Low-resolution proxy editing enables organizations to extend the lifecycle of older desktop and laptop systems with proxy-only editing capabilities, as well as bringing editing to existing desktop PCs. This is especially beneficial in newsrooms where desktop computers may be not be equipped with the latest processors or significant memory.
- Using STRATUS EDIUS XS brings the power of EDIUS 7 proxy and high-resolution editing to GV STRATUS-connected PCs.

When an editor has to wait for technology, creativity suffers. That doesn't happen with EDIUS 7. EDIUS 7 means more resolutions, unlimited tracks, and real-time editing for the ability to *Edit Anything, Anywhere*. With versions for the professional standalone user (EDIUS Pro 7) and for editors within networked connected production infrastructures (EDIUS Elite 7), EDIUS 7 is the perfect finishing tool for broadcast news, newsmagazine content, and studio programs, as well as organizational, documentary, and 4K theatrical productions.

With more creative options and real-time, no-render editing of all popular SD and HD formats, EDIUS 7 is the most versatile and fastest nonlinear editing software available.

EDIUS 7 takes full advantage today's 64-bit computing technology to enable faster and more creative editing. Real-time editing of multiple formats on the same timeline—including 4K—unlimited media tracks,

and real-time conversion of frame rates on the same timeline, mean that editors can edit faster...and be more creative.

The EDIUS Elite 7 systemized version of EDIUS 7 includes components such as an Assignment List plug-in to integrate GV STRATUS with multiple newsroom computer systems.

## EDIUS 7

### 64-bit & 4K

Designed as a native 64-bit application for Windows 7 and Windows 8, EDIUS 7 takes full advantage of up to 512 GB (for Windows 8 Enterprise and Professional) or up to 192 GB (for Windows 7 Ultimate, Enterprise, and Professional) of installed physical memory access for super-intensive media operations, especially layering, 3D, multicam, and multitrack 4K editing.

With an improved 4K workflow over previous versions, EDIUS 7 supports Blackmagic Design's DeckLink 4K Extreme and EDL import/export color correction interchange with DaVinci.

### KEY FEATURES

- Superior 4K workflow, including support for Blackmagic Design's DeckLink 4K Extreme and EDL import/export color correction interchange with DaVinci
- Open to third-party I/O hardware from Blackmagic Design, Matrox, and AJA
- Editing media files with different resolutions—from 24x24 to 4Kx2K, as well as real-time conversion of frame rates on the same timeline delivers more efficient editing into the hands of editors
- Fast, flexible user interface, including unlimited video, audio, title, and graphics tracks
- Support for the latest file formats (Sony XAVC/XVAC S, Panasonic AVC-Ultra, and Canon 1D C M-JPEG) as they are released
- Work natively with many different video formats, such as Sony's XDCAM, Panasonic's P2, Ikegami's GF, RED, Canon's XF format and EOS movie format
- Fastest AVCHD editing in the market (up to 3+ streams in real time)
- Multicam editing of up to 16 different sources simultaneously, with video output support
- Improved MPEG encoder speed and quality
- Improved H.264/AVC decoder
- Optimized for fourth-generation Intel Core i architecture
- 64-bit native processing with maximum memory access for streamlined real-time editing
- Proxy mode workflow for slower computers helps extend their usability and increase ROI
- Supports Intel Ivy Bridge/Sandy Bridge for extremely fast hardware for export and Blu-ray Disc burning
- Fast handling of large quantities of still image files (JPG, TGA, DPX, and others)
- 3D stereoscopic editing
- Built-in loudness meter
- Image stabilization
- Direct to Blu-ray Disc and DVD timeline export

### More Formats, Better Workflows

EDIUS 7 is perfect for file-based and tape-based workflows. EDIUS 7 includes native support for many different file formats, such as Sony's XDCAM, Panasonic's P2, Ikegami's GF, RED, as well as Canon's XF and EOS movie formats. Plus, EDIUS 7 supports the newest file formats, including Sony's XAVC/XVAC S, Panasonic's AVC-Ultra, Panasonic/Sony's AVCHD 2.0, and Canon's 1D C M-JPEG, as they are released.

EDIUS 7 also supports, via IEEE 1394 (FireWire) or USB, capturing from tape devices such as DV and HDV.

### More Hardware & Software Choices

Grass Valley has opened EDIUS 7 up to more hardware and software options from third-parties, so that users can customize the system that's right for them.

In addition to supporting Grass Valley desktop I/O hardware solutions (STORM™/STORM 3G Elite, HDSTORM™/STORM Mobile, and HDSPARK™/HDSPARK Pro), EDIUS 7 supports I/O hardware from:

- Blackmagic Design:
  - DeckLink Mini Monitor, Mini Recorder, Studio, 4K Extreme
  - Intensity Pro, Shuttle for USB, Shuttle for Thunderbolt, Extreme
  - UltraStudio SDI, Pro
- Matrox:
  - MXO2 LE (**Note:** Playout support only. Input support planned for Q4 2013)
- AJA Video Systems (planned, Q4 2013)

**Note:** Deck control not supported with third-party hardware

In addition to its built-in titler (Quick Titler), EDIUS 7 also supports a number of third-party titling software applications, for more creative freedom, control, and power.

For even more power and creative control during editing, EDIUS 7 supports a number of third-party software plug-ins for additional video and audio effects, keying, stabilization and multicam syncing.

A list of third-party titling software and effects plug-ins will be available on the EDIUS Pro 7 page of our website when EDIUS 7 is released.

### Unrivaled Mixed-Format Editing

Featuring unrivaled real-time video transcoding technology, EDIUS converts between HD and SD resolutions, aspect ratios, and frame rates—all in real time. Users can edit in HD and place 4:3 SD video on the timeline, mix NTSC and PAL sources, add 4K, or combine them all into projects in other resolutions and frame rates without wasting a single moment on conversion or rendering.

EDIUS 7 supports resolutions from 24x24 to 4Kx2K, all on the same timeline, even in nested sequences, all in real time.

## EDIUS 7



### System-wide Integration

With EDIUS Elite 7, editing systems becomes part of the complete production system, including servers, replay, and switching. Plus EDIUS Elite 7 can become a toolset for GV STRATUS nonlinear production tools for full integration with production and playout operations, putting access to all media assets and metadata at each computer and in the hands of the people who need it.

EDIUS Elite 7 includes all of the capabilities of EDIUS Pro 7, plus:

- Direct access to the Grass Valley K2 file system to provide for editing-in-place for multiple edit stations. Features include direct K2 clip and K2 program import and export while preserving Dolby E/AC3 audio (audio bitstream pass-through)
- K2 Clip Capture, which lets editors record directly into the K2 SAN from their networked EDIUS system. With I/O hardware for EDIUS—such as STORM 3G or STORM mobile—editors can record K2-compatible files, which can be edited while growing.
- Simul Edit, enabling multiple EDIUS clients to simultaneously edit live video being ingested by another EDIUS client in a network editing environment (SAN or NAS). Only the capture client requires an EDIUS Elite 7 license—the remaining clients require only EDIUS Pro 7 licenses.
- Interchange of GV STRATUS clips and sequences. Sequences created with GV STRATUS can be immediately used on the EDIUS timeline.

### News Production

For the newsroom, EDIUS Elite 7 works with GV STRATUS to integrate with multiple newsroom computer systems.

For newsroom and other operations based on 32- and 64-bit networked computers, GV STRATUS and STRATUS EDIUS XS bring the power and speed of EDIUS 7 low-resolution proxy and high-resolution editing to these systems.

### Live Event Production

For live events, EDIUS 7 can be added to a GV Director™ nonlinear live production center to expand the creative capabilities of the production team. EDIUS 7 is also a great addition to K2 Dyno® Replay Systems adding the ability to quickly assemble recordings and highlight clips from live events. Editors have access to all metadata stored with each video clip which makes the creation of highlight reels and advanced playlists easier and faster than ever before.

In combination with either system, EDIUS 7 can integrate on-site media into produced packages for use at events, or deliver edited content in a variety of file formats and resolutions to be distributed across multiple media platforms.

### Multiplatform Delivery

Finishing in a variety of formats is easy with EDIUS 7. Output resolutions can be customized and then saved with a variety of file wrappers—including MXF, GXF, QuickTime, and Windows Media—for distribution to professional and consumer systems.

### Keep Editing

With EDIUS XRE, finished files can be created in the background, away from main editing workstations, immediately and automatically. By moving final processing and output to a separate, dedicated workstation, editors can spend their time creating more, engaging content, instead of waiting for final file output.

### Optimized for Today... and Yesterday

EDIUS 7 has been optimized for multicore and Intel fourth-generation Core i CPU systems, with editing performance increasing as CPU power increases, for extremely fast hardware encoding of MPEG-4/H.264/AVC files for export and Blu-ray Disc burning.

For those on Apple's Mac platform, EDIUS 7 runs on Macs with Parallels Desktop 64-bit Windows 7 or Windows 8.

### Proxy Mode Editing

While many nonlinear editors require super-fast CPU processing and a significant amount of RAM memory, EDIUS 7's proxy mode can run on less expensive and older desktop and laptop computers to edit in real-time using low-resolution proxies of high-resolution media, with all of the functionality and creative tools EDIUS 7 provides. When proxy editing is completed, an edit decision list (EDL) is sent to a more powerful EDIUS 7 or EDIUS XRE workstation computer for final processing and output. This is especially beneficial in newsrooms where desktop computers may not be equipped with the latest processors or have significant available memory.



## EDIUS 7 INTEGRATED COMPONENTS

EDIUS 7 integrates with a number of Grass Valley components specifically designed to increase editing efficiency and overall operational workflows.

### EDIUS XRE

EDIUS XRE (eXternal Rendering Engine) gives users in a workgroup the freedom to spend their time editing their projects—not conforming their projects into final finished form. The EDIUS XRE server is a turnkey system based on EDIUS 7 that allows editors to request that a project created with EDIUS 7 in either a GV STRATUS or EDIUS Workgroup Storage environment be rendered automatically on a separate dedicated workstation while they go on to the next job. There's no delay or tying up a valuable edit station while having to wait for that project to be rendered.

Serving as a unique and powerful conform server, EDIUS XRE accepts the various full-resolution project elements and, by selecting "XRE export" on the EDIUS 7 timeline, immediately and automatically creates finished files in the background allowing editors to keep on editing.

As an EDIUS 7-based system, the EDIUS XRE turnkey system is a native 64-bit solution with improved MPEG encoder speed and quality, as well as improved H.264/AVC decoder, from previous versions.

### EDIUS XS (requires GV STRATUS)

GV STRATUS workflows integrate an efficient and powerful way to complete craft-editing of a sequence in low-resolution proxy mode on networked desktop and laptop computers via the Grass Valley EDIUS XS application. With EDIUS XS available within GV STRATUS, users have access to the industry's most powerful low-resolution proxy editor, and a consistent experience whether editing in the field or the newsroom.

Any authorized GV STRATUS user can launch the GV STRATUS application as an ActiveX panel within the EDIUS XS application. In this mode, all GV STRATUS tools are available to users within EDIUS XS, consolidated into a single workspace.

The embedded GV STRATUS window inside EDIUS XS lets users find content, load it in the EDIUS XS player window, edit in proxy mode, and then send the job to a GV STRATUS conform server. EDIUS XS has most of the features of EDIUS Elite 7, such as transitions, effect, titling, voiceover, and others. Once the proxy file is edited, it can be exported as high-resolution media via the EDIUS XRE conform server. EDIUS XS is available in 64-bit and 32/64-bit versions.

### GV STRATUS

EDIUS 7 can also use GV STRATUS nonlinear production tools to find content and drag-and-drop material from GV STRATUS to EDIUS 7. EDIUS 7 can edit from GV STRATUS storyboard sequences, or K2 program/ playlist files. Metadata such as markers and keywords added during capture can be searched and displayed.

Edited pieces are sent to the K2 for playout. The timeline can be published as a K2 program (playlist), or as one file (K2 clip). As a clip, it can be used as an event in the GV STRATUS Playlist Editor. The file can be played out of the K2 after approximately seven seconds from when the start of message arrives. The file can be played out while the file transfer is still in progress.

There are also components such as an Assignment List plug-in to integrate GV STRATUS with NRCS systems.

EDIUS 7/GV STRATUS users can:

- Open sequences from the GV STRATUS storyboard editor
- View and use annotations created by other users in the system
- View NRCS scripts with production notes and characters-per-second reading rate

Finished stories are sent to the K2 for playout by opening the NRCS rundown view in EDIUS, selecting the assigned story name, and sending. The file can be played out of the K2 after approximately seven seconds. The file can be played out while the file transfer is still in progress.

### K2 Media Servers and Storage

EDIUS 7 is a multi-layer nonlinear editor with high-level effects capability and the fastest real-time system performance of any editor when integrated within a K2 infrastructure. It can access and edit-in-place media on a K2 SAN, and can publish finished materials to K2 for playout. EDIUS 7 users can:

- Connect directly to the K2 SAN and edit-in-place
- Edit growing files (files being recorded)
- Transfer selected files into local storage for editing
- Send finished pieces to K2 for playout as a rendered clip or K2 program file

## SPECIFICATIONS

### Minimum System Requirements (standalone):

**OS:** Windows 7 64-bit (Service Pack 1 or later), Windows 8 64-bit

Note: See Memory section below for physical memory limits of each OS.

**CPU:** Any Intel Core 2 or Core iX CPU. Intel or AMD single core CPU with a 3 GHz processor speed or faster (multiple CPUs and/or multicore CPUs are recommended). SSE3 (Supplementary SSE3) instruction set support required.

### Memory:

- 1 GB RAM minimum (4 GB or more recommended)
- Requirements for RAM and video memory vary depending on the project format. For SD/HD projects: 4 GB or more RAM recommended. For 4K projects: 16 GB or more RAM recommended

Maximum amount of RAM is based on the physical memory limits of each OS.

- Windows 8, Enterprise and Professional, 64-bit: 512 GB
- Windows 8, 64-bit: 128 GB
- Windows 7, Ultimate, Enterprise, and Professional, 64-bit: 192 GB
- Windows 7, Home Premium, 64-bit: 16 GB (not recommended for complex 4K projects)
- Windows 7, Home Basic, 64-bit: 8 GB (not recommended for projects with more than HD resolution)

Project Format		RAM Memory		Video Memory	
Resolution	depth	minimum	recommended	minimum	recommended
SD and below	8-bit	1 GB	2 GB	256 MB	512 MB
	10-bit	2 GB	4 GB	512 MB	1 GB
HD	8-bit	2 GB	4 GB	512 MB	1 GB
	10-bit	4 GB	4 GB	1 GB	2 GB
Over HD (including 4K)	8-bit	8 GB	12 GB (16 GB or more for 4K)	2 GB	2 GB or more
	10-bit	8 GB	12 GB (16 GB or more for 4K)	2 GB	2 GB or more

### Graphics Card

- Supporting higher resolution than 1024x768 32-bit. Direct3D 9.0c or later and PixelShader Model 3.0 or later is required
- Requirements for video memory size when using GPUfx will vary depending on the project format. For 10-bit SD projects: 1 GB or more recommended, for HD/4K projects 2 GB or more recommended

**Note:** Requirements for video memory vary depending on the project format. See Memory section above for details.

### Hard Disk

- 6 GB of hard disk space is required for installation
- Drive with ATA100/7,200 RPM or faster is required for video storage:
  - Available hard drive disc space should be twice the size of the file to be edited
  - RAID-0 is recommended for HD and above resolution editing

### Optical Drive

- Blu-ray Disc writer is required when creating Blu-ray Discs
- DVD-R/RW or DVD+R/RW drive is required when creating DVDs

### Sound Card

Sound card with WDM driver support is required.

### Network

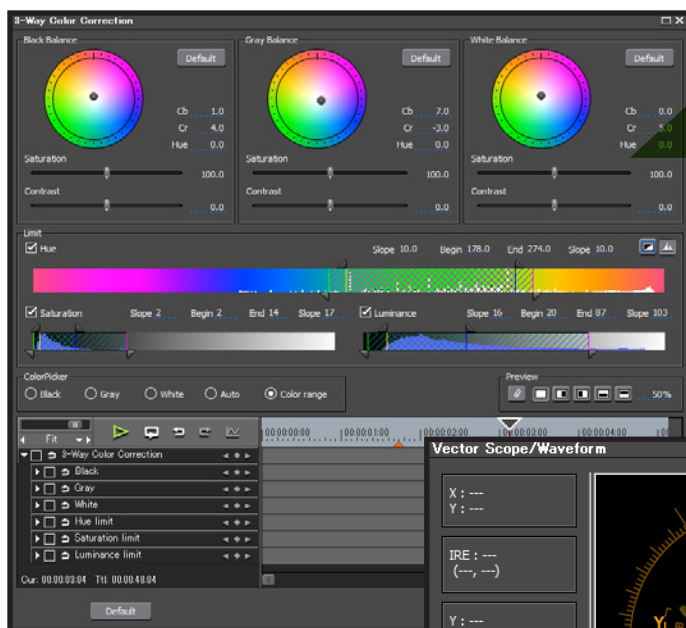
Internet connection required for software license activation.

### Service and Support

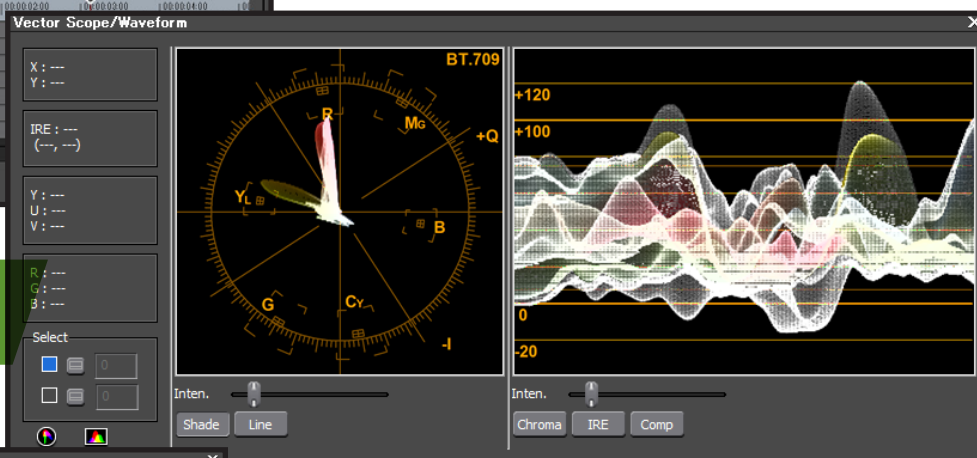
90-day limited warranty.

**Note:** External video decks/cameras may require either a free FireWire (IEEE 1394) port or USB 2.0 port for connectivity.

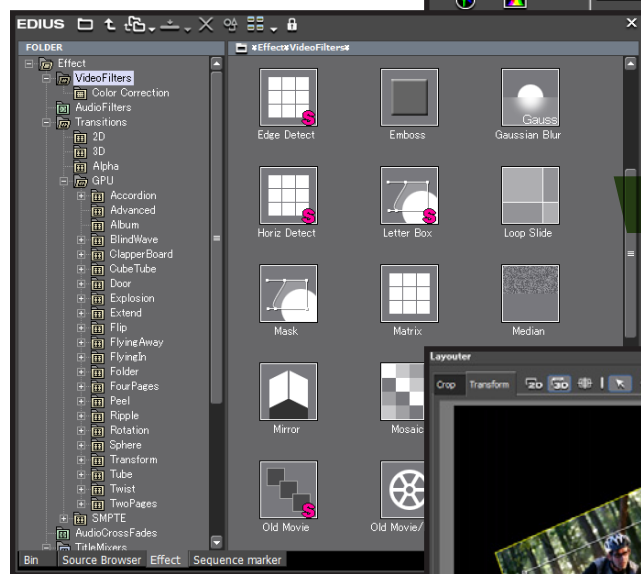
## EDIUS 7 FEATURES



3-way color correction

Vectorscope/  
Waveform

Video effects



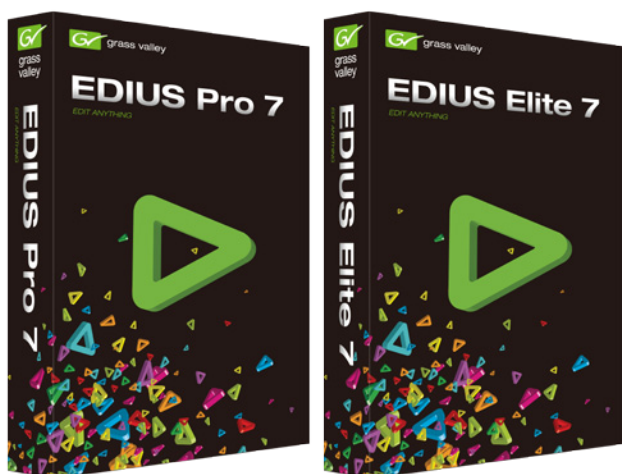
Layouter





## PACKAGE CONTENTS

- EDIUS 7 installation disc (DVD-ROM)
- Installation guide



## ORDERING INFORMATION

### EDIUS Pro 7

- Retail packaging
- Online download through an authorized Grass Valley channel partner

### EDIUS Elite 7

EDIUS Pro 7 to EDIUS Elite 7 upgrades

- Please contact your authorized Grass Valley channel partner.

Upgrades from previous EDIUS versions to EDIUS Pro 7 are available, please see [www.grassvalley.com/edius](http://www.grassvalley.com/edius) for details.



## GLOBAL SERVICES

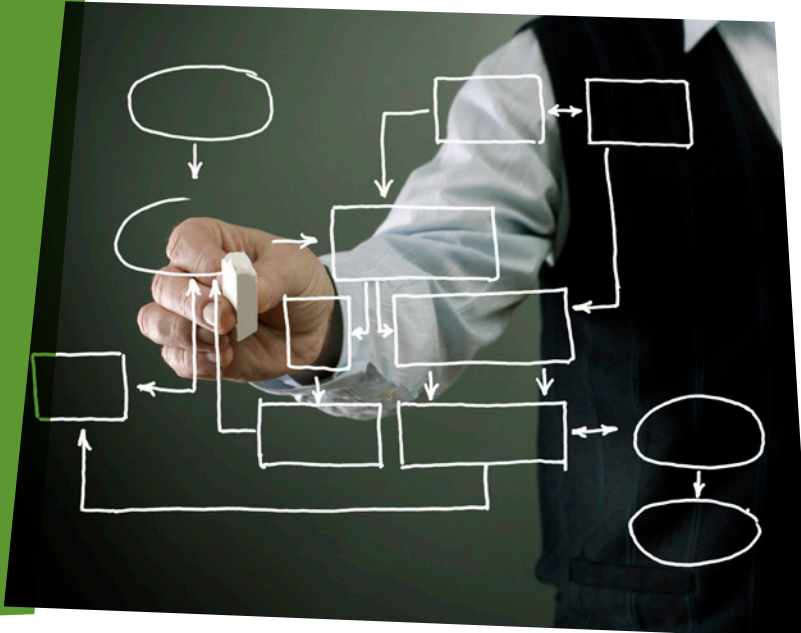
In an environment of increasingly rapid content creation needs, media production organizations will gain a competitive advantage by partnering with an editing system vendor that provides expert technical personnel and high-velocity response. Support must be cost-effective, predictable, reliable, and fast. Grass Valley Global Services has the practical knowledge, digital media experience, and editing expertise to achieve this objective. The Global Services portfolio provides everything necessary to ensure the quick problem resolution necessary to keep content creators pressing ahead and moving fast.

Grass Valley Global Services offerings deliver tangible returns-on-investment by providing the resources to ensure that customers get the maximum value from an investment in Grass Valley EDIUS products—from initial delivery through the entire in-service lifespan. Global Services empowers organizations to meet tactical day-to-day objectives while giving internal staff more time to focus on strategic business initiatives.

Our global presence, nonlinear production expertise, and world-renowned team of video editing, workflow, and production professionals is here to help achieve financial performance objectives by reduce technical risk while helping creative staff to produce the largest volume of high-quality, high-value content.

### Global Services delivers a broad array of commercial, technical, and creative value to EDIUS customers:

- A global network of field engineers with the experience, knowledge, and skill to keep production systems up to date, in-service, and tuned for both performance and quality.
- A team of educators who have themselves been “in the hot seat” and who are world-class experts in news, live, and production editing.
- Solution architecture, project management, and integration services to create collaborative editing systems from small production environments to the world’s largest facilities
- Technical and operational training that maximizes the productivity of your editing and production teams through tailored learning paths.
- Comprehensive support agreements to ensure that every EDIUS editor, and the system supporting it, functions at peak performance—all while supporting management’s need for financial predictability.



## MAXIMIZE AND OPTIMIZE YOUR INVESTMENT



With program production and distribution becoming ever more complex and affecting business issues on a daily basis, you need a trusted partner that understands those complexities and how to convert them into opportunities. Grass Valley's team of experienced engineers and system integrators can help you turn your challenges into opportunities in the most efficient and cost-effective way possible, from system design all the way through to commissioning. Grass Valley Professional Services helps you to:

**Define:** We consult with you to help define your business and technology requirements and then design the right solutions to meet them.

**Deploy:** Our professional service organization, backed by proven project management methodologies, can take you from design through deployment, commissioning, and training.

**Support:** We offer a complete portfolio of support services to keep your systems running, and help manage your long-term maintenance needs.

For information about Grass Valley, please visit [www.grassvalley.com](http://www.grassvalley.com).

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