Matrox Maevex PowerStream Plus Software and APIs
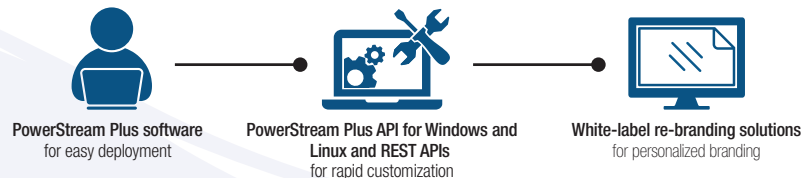## Complete reach and control

Maevex PowerStream Plus is the most advanced AV-over-IP software management tool on the market, a game-changer in terms of software and system capabilities. This powerful software application provides complete reach and control over the entire Maevex network topology through an easy-to-use interface.

Boasting compatibility with the complete Maevex family of products—Maevex 6100 Series dual and quad 4K enterprise encoder appliances, Maevex 6100 PCIe® quad 4K enterprise encoder cards, as well as Maevex 5100 Series encoders and decoders—PowerStream Plus delivers remote control over all network-connected units from one central location. Operators gain flexibility over all network connections—zoom out for a macro-level overview of the entire Maevex infrastructure, and zoom in on particular units or groups to fine-tune parameters for each stream within a given device.

PowerStream Plus offers three levels of implementation to best suit any need:

PowerStream Plus software
for easy deployment

PowerStream Plus API for Windows and Linux and REST APIs
for rapid customization

White-label re-branding solutions
for personalized branding

Easy deployment with PowerStream Plus

PowerStream Plus offers plug-and-play functionality and full access to the complete feature set immediately after download. This complimentary software renders all Maevex Series encoders and decoders entirely configurable and manageable from a single, easy-to-use user interface that is accessible from anywhere on the network.

- Simplify set-up with auto discovery of any Maevex unit on the subnet, and easy manual addition for units outside the subnet.
- Control what features users can access by establishing credentialed profiles for any system operator.[1]
- Fine-tune encode/decode parameters and adjust bitrates for any stream.[1]
- Stream via multiple protocols (RTP, RTMP, RTSP, MPEG2.TS over UDP, SRT over UDP).[1]
- Record or schedule recording to a shared network drive or NAS; access content on-demand at a later time.[1]
- Group encoders and/or decoders and identify groups by name; adjust settings for multiple selected units and configure to the same parameters.
- Manage inputs and chroma sub-sampling pixel formats.[1]
- Choose preconfigured composite outputs such as multiple Picture-in-Picture (PiP) and quadrant composite options.[1]
- Manage and save favorite configurations and apply to other devices.[1]
- Adjust, scale, and crop content to suit different outputs and ensure pristine visuals for all transmissions.
- Deliver Simple Network Management Protocol (SNMPv2) support for network administration and management.[1]

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- Access an unlimited number of streams through third-party technology like streaming media servers, content delivery networks (CDNs), and others, thereby guaranteeing complete control over each network installation.
- Balance bitrate and compression demands to optimize performance.[2]
- Switch channels or streams at each decoder without the need for additional equipment.[2]
- And much more…

The PowerStream Plus application is free to download and is compatible with both Maevex 5100 Series and Maevex 6100 Series. The separate Maevex Firmware Updater tool also ensures the most current version of the software is always running and allows for system-wide or chosen deployment from a single software tool. PowerStream Plus is compatible with Microsoft® Windows® 10 (64-bit), Windows Server® 2016, Windows 7 (32-bit, 64-bit), and Windows Server 2008 R2.

Rapid customization and command-level access with PowerStream Plus API and REST APIs

Available upon request, the PowerStream Plus API and REST APIs grant integrators and developers the ability to build personalized Maevex control applications and/or to integrate Maevex functionality in existing or even third-party applications.

Maevex PowerStream Plus API

The Maevex PowerStream Plus API for Windows and Linux allows access to the entire application feature set and supports a range of customization options, from the creation of a straightforward, single-function application to full integration of all PowerStream Plus features into a fully customized and branded application.

The level of complexity can be tailored to suit any need: Simple coding enables integrating the existing PowerStream Plus decoder source-selection feature and building a basic switching grid to change channels via touchscreen, for example. Need deeper customization? Select from the complete PowerStream Plus feature set to incorporate specific required functionality and develop a custom-designed software application or embed PowerStream Plus features into existing control applications to provide more familiarity for users and operators.

PowerStream Plus API is available on .NET framework (4.5.1 or higher), standalone library for Windows and Mono (5.2 or higher) for Linux.

Maevex REST APIs for lower-level development

For even greater flexibility and direct access to the Maevex devices themselves, Maevex REST APIs are available for both Maevex 5100 Series and 6100 Series products. These REST APIs allow for direct control of the state of individual Maevex devices and provide for a more flexible and portable software development environment.

- The Maevex 5100 Series REST API provides methods for accessing every feature in Maevex 5100 Series products. Code developed with the Maevex 5100 Series REST API addresses the 5100 Series encoders and decoders using HTTPS and follows the principles of Representational State Transfer (REST) using simple HTTPS payloads in Protocol Buffers (Protobuf) format.
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White-label re-branding solutions

Matrox's simple white-label option lets OEMs and integrators customize the graphic appearance of the PowerStream Plus user interface for brand consolidation. The white-label toolkit allows for easy re-branding of Matrox software with enterprise naming, logos, colors, and identity, for complete corporate integration.

1. Maevex 6100 Series.
2. Maevex 5100 Series.

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