



SAME™ SMART AUDIO & MIXING ENGINE



FROM MIC TO EAR

FIRST CLASS AUDIO PROCESSING POWER ON DEMAND

SAME™ is the next-generation processing and mixing solution for the audio engineering world. Bid farewell to rigid systems and welcome unparalleled flexibility. Automate mundane tasks, streamline your workflow with the centralized Audio Pilot, and experience seamless processing from start to finish. SAME isn't just software—it's an audio powerhouse at your command.

Riedel's SAME is the first ultra-low-latency audio processing software that automates your daily tasks, ensuring seamless integration and unmatched audio quality for any production size. Developed by audio experts for audio experts, SAME provides a comprehensive suite of apps, giving you instant access to all active productions from a single, centralized platform. Based on over 30 processing tools, the software suite features apps like Network Plugins, Mixers, Super Tools, Meters and Analyzers, Generators and Players as well as the Audio Pilot.

Experience SAME's unique Audio Pilot, a powerful feature that offers both local and centralized monitoring and management, giving you the big picture of your multi-location productions. With SAME, you can effortlessly mix and match devices, roles, and personnel without needing in-depth protocol or IP knowledge. Its intuitive interface dramatically simplifies the complexity of audio management, letting you focus on what truly matters - creating exceptional audio experiences.

The software solution is built on the latest COTS server cluster standards, ensuring easy scaling to meet the demands of any production. Since processing and I/O routing are not tied to a physical location, SAME enables rapid switching between different workspaces and production areas and avoids processing resource bottlenecks and access rights problems associated with traditional monolithic processing solutions. This, ensures that you can handle even the most demanding multi-location audio productions

Our fully automated audio monitoring path eliminates the need for manual stream re-routing, saving valuable time and resources. Whether you're managing off-tube commentary, automated news, or any other audio application, SAME ensures your operations run smoothly and efficiently.





Riedel's brand-new management platform STAGE simplifies the integration of devices, roles, and personnel without requiring IP expertise, streamlining operations and significantly reducing setup and training times. This management backend features strong remote assistance capabilities for remote or at-home production scenarios and is compliant with the highest IT security standards. The browser-based tool also features extensive user-rights management with integration to corporate directories and 3rd party identity providers (LDAP/AD, SAML, ...).

Thanks to STAGE, SAME's application-specific DSP and mixing blocks are running as independent processing and mixer instances in your network. This reduces the need for access rights considerations when compared to traditional monolithic processing cores that are shared among multiple operators. The microservice-based management application with cluster support allws the operation of redundant engines for the highest availability and resilience of your services. A strong and well-documented north-bound API allows for a seamless integration into overarching control and monitoring systems.

SAME™ AUDIO PILOT

UNMATCHED CONTROL AT YOUR FINGERTIPS

Tired of juggling different UIs?

The SAME Audio Pilot allows the operator to focus on the essential aspects of the production, keeping the most vital controls readily accessible at all times. With fast and reliable navigation to key areas, operators can effortlessly oversee multiple simultaneous productions with ease and confidence, working more efficiently as repetitive tasks are managed by the system.

SAME's expansive set of mixing and processing plugins - ranging from simple Network Plugins like Limiters, De-Essers or Delays over Meters and Generators to complex Super Tools like the unique Auto Voice Over - can be easily acessed with a single click.

Loudness & Dialnorm Meters





Dynamics & Equalizers



Up & Down Mixers

Feature Spotlight: Spectra-Match Dynamic EQ & Fingerprint Technology

The Spectra-Match algorythm has the ability to recreate a certain frequency spectrum, so a voice always sounds virtually the same, no matter its environment or proximity to the microphone. A "fingerprint" of a moderator can be taken in a controlled environment and saved as a preset for this talent. When recalling the preset, the Spectra-Match technology applies 14-Band Dynamic Equalization to approximate the audio to the optimal fingerprint settings.

Feature Spotlight: Level Perfect

Level Perfect is an EBU R128 and ITU-R BS.1770 compliant automatic loudness processor. With its internal Transient Processor and Adaptive Gain Control network, it autonomously adjusts the perceived loudness to a predefined target value. Available as Mono, Stereo or 5.1 Network Plug-in, it can be inserted after Mixer Main Outs, directly into the distribution chain or between a Playback Device and a Mix Input.





STEP INTO TOMORROW'S WORKFLOWS - TODAY!

HOW SAME™ MAKES A DIFFERENCE IN BROADCAST AUDIO

OFF-TUBE COMMENTARY AND VOICE TRACKING BOOTH

■ Through remote production of spoken content like commentary or voice-over for narration or interviews, broadcasters can deliver localized and high-quality content without the need for large on-site teams. Current setups involve manual configurations with broadcast audio consoles, live sound mixers, or basic audio workstations. Creative talents often have to handle these complex technical setups themselves, diverting focus from content creation and increasing the need for constant technical assistance.

The SAME Difference:

Simplified setup and operation: SAME's automated signal flow reduces the complexities of setting up and operating remote commentary and voice tracking sessions. This allows talents to focus on their content without worrying about technical setups.

Enhanced security and accessibility: Advanced authentication protocols prevent unauthorized access, ensuring secure and controlled environments for voice tracking and commentary.

Clear interfaces: User-specific UIs and user-friendly tools like the Voice-Over Super Tool reduce the need for constant engineering support, allowing creative talent to work more independently.



Feature Spotlight: Auto Voice-Over

The Auto Voice-Over Super Tool provides a simple overview of up to four commentators and a program/FX feed. The tool is design for easy handling and is highly automated with auto-mix and loudness-based K-Levellers for the voice sub-mix, K-Levellers for the program/FX feeds (Stereo & 5.1). In cases where one sound engineer has to supervise several voice-overs at the same time, the Silence Detectors in each input will alert and notify them via the overview page in the Audio Pilot whenever a signal is lost.

AUTOMATED TV NEWS

■ Automated TV News production streamlines the creation of news programs, which are typically live, short, and fully scripted. Traditional automated systems require discrete processing cores for each news channel, often resulting in significant idle overhead. Most systems also rely on preset signal processing, making real-time changes difficult, especially when an audio engineer is not on hand.

The SAME Difference:

Scalability through granularity: SAME provides mixer instances sized specifically for each application, reducing unnecessary overhead and ensuring efficient use of resources.

Intelligent Plugins: The integrated Spectra-Match algorithm with fingerprint technology allows for on-the-fly audio adjustments, accommodating sudden changes in talent or voice characteristics, ensuring consistent audio quality.

Parallel program monitoring: SAME's audio histogram and silence detection features ensure that parallel programs can monitored effectively.



Feature Spotlight: Mixer

SAME Mixers are available with fully automated input channels, featuring our Spectra-Match and K-Leveller algorithms directly in the channels' processing block. 3rd party News Automation Systems can control the mixer channels directly via STAGE's open API, while the intelligent processing of the SAME Mixer takes care to maintain an even mix and to stay compliant to your loudness standards.

BROADCAST FACILITY AUDIO TOOLBOX

■ Broadcast facilities have to deal with raw-sounding feeds from the field that need to be conditioned to meet broadcast standards. Traditionally, broadcasters have been using pooled single-purpose hardware devices to insert processing blocks into the signal flow. This typically requires advanced control systems and creates a lot of expensive overhead due to the inflexibility of hardware processing blocks.

The SAME Difference:

Intuitive routing: SAME's routing and plug-in insertion matrix allows for fast and intuitive insertion of entire channel strips, streamlining the process and reducing the risk of errors

Remote flexibility: SAME's Web-UI approach, coupled with sophisticated authentication and user rights management, allows operators to work from any location

Audio Pilot remote interventions: The Audio Pilot will give an unparalleled view and of all active productions with fast and error-proof intervention – also remotely.



Feature Spotlight: Crosspoint Matrix View

The possibility to Insert Network Plug-ins directly in the crosspoint matrix is probably the most convenient and easiest way of inserting processing into a signal chain. Opening the processes' user interfaces directly via the crosspoint and automatically routing the Network-Plug-in's monitoring output to the Audio Pilot's Monitoring process allows for highly efficient workflows.

One click on a crosspoint in the matrix shows all possible Network Plugins that can be inserted between your selected source and destination. A simple double click onto the desired tool's icon inserts the plugin, and SAME will automatically do all the required routing in the background, selecting your Plugin from its resource pool and building your UI.



SOFT WARE - HARD FACTS

- · Real time (8 samples/0.6 ms) audio processing engines
- · 30+ audio processing tools
- Runs on commercial-off-the-shelf (COTS) servers
- · Scalable from small to large productions just by adding computing power
- · Native SMPTE 2110-30/31 (AES67) IP network support
- · Support of NMOS IS-04/05/08
- · Packet redundancy support (2022-7)
- · Processing engine redundancy support (1+1)
- Microservice-based management application Riedel STAGE with cluster support for high availability environments

NETWORK PLUG-IN TYPES - PREDEFINED TEMPLATES

| NETWORK PLUG-IN TYPES | Mono | STEREO | 5.1 |
|-------------------------------------|-------------|-------------|----------|
| Brickwall Limiter (incl. True Peak) | ~ | ~ | ✓ |
| Compressor / Limiter | ~ | v | ~ |
| De-Esser | ~ | | |
| Delay 10 Sec. | ~ | ~ | ~ |
| Downmix 5.1 to Mono | (/) | | ~ |
| Downmix 5.1 to Stereo | | (/) | ~ |
| Downmix Stereo to Mono | (/) | ~ | |
| Expander / Gate | ~ | ~ | ~ |
| Param. EQ 4-Band & HP/LP Filters | ✓ | v | ~ |
| K-Leveller | ~ | V | ~ |
| Level Perfect | V | ~ | ~ |

| NETWORK PLUG-IN TYPES | Mono | STEREO | 5.1 |
|---------------------------------|------|--------------|-----|
| Line ID Analyzer / Shuffler | | ~ | ~ |
| Shuffler Stereo/5.1 | | ~ | ~ |
| Spectra-Match | ~ | ~ | ~ |
| Upmix | | (v) | ~ |
| Format Converter Mono to Stereo | (✔) | ~ | |
| Standard Channel Strip | | ~ | ~ |
| Standard+ Channel Strip | ~ | | |
| Leveller Channel Strip | | ~ | ~ |
| Leveller+ Channel Strip | ~ | | |
| Voice Channel Strip | ~ | | |
| Voice Leveller Channel Strip | ~ | | |

MIXER - PREDEFINED TEMPLATES

| MIXER TYPES | Inputs | AUX / N-X | GROUPS | MAINS |
|----------------------------------|--------|-----------|--------|-------|
| Mixer Basic 4-1 SUM 5.1 | 4 | 0 | 0 | 1 |
| Mixer Basic 8-1 SUM Mono | 8 | 0 | 0 | 1 |
| Mixer Basic 8-1 SUM Stereo | 8 | 0 | 0 | 1 |
| Mixer Basic 16-4 SUM Mono | 16 | 0 | 0 | 4 |
| Mixer Basic 16-4 SUM Stereo | 16 | 0 | 0 | 4 |
| Mixer Plus 10-6-2-2 PROD Stereo | 10 | 6 | 2 | 2 |
| Mixer Pro 10-6-2-2 PROD Stereo | 10 | 6 | 2 | 2 |
| Mixer Plus 14-6-4-4 PROD 5.1 | 14 | 6 | 4 | 4 |
| Mixer Pro 14-6-4-4 PROD 5.1 | 14 | 6 | 4 | 4 |
| Mixer Plus 30-10-2-4 PROD Stereo | 30 | 10 | 2 | 4 |
| Mixer Pro 30-10-2-4 PROD Stereo | 30 | 10 | 2 | 4 |
| Mixer Plus 38-16-4-8 PROD 5.1 | 38 | 16 | 4 | 8 |
| Mixer Pro 38-16-4-8 PROD 5.1 | 38 | 16 | 4 | 8 |

SUPER TOOL - PREDEFINED TEMPLATES

| SUPER TOOL TYPES | INPUTS | OUTPUTS |
|----------------------------------|--------|---------|
| Shuffler Multi-Channel 8 | 8 | 8 |
| Shuffler Multi-Channel 16 | 16 | 16 |
| Auto Voice-Over - 4 Commentators | 6 | 6 |

METERS & ANALYZERS - PREDEFINED TEMPLATES

| METER / ANALYZER TYPES | Mono | STEREO | 5.1 | |
|------------------------|------|--------|-----|--|
| Dialnorm Meter | ✓ | ✓ | ✓ | |
| Loudness Meter | / | ✓ | ✓ | |
| Loudness Meter+ | 1 | ✓ | ✓ | |
| Real Time Analyzer | ✓ | | | |
| Silanca Datactor | / | / | / | |

GENERATORS & PLAYERS

| GENERATOR / PLAYER TYPES | Mono | STEREO | 5.1 |
|-------------------------------|------|--------|-----|
| Line Identification Generator | | ✓ | ✓ |
| Signal/Noise Generator | 1 | | |



