YOUR MEDIA WORKFLOW PLATFORM
The new R&S®VENICE

Live Production

Virtual Storage Access

Channel Playout

Studio Production

UHD

COTS hardware

IS-04/05

SMPTE 2110

MOS

PTP

AES 67

SDI/IP

HDR

FIMS

VDCP

www.rohde-schwarz.com/venice
YOUR CENTER OF EXCELLENCE FOR LIVE, STUDIO AND CHANNEL PLAYOUT APPLICATIONS.

Reliable – Future-proof – Scalable – Versatile

24/7 on-air reliability

Suitable for every possible workflow

UHD HDR

SDI and IP support

Industry-leading standard server models

Scalable in...
- channels
- capacity
- bandwidth
VENICE is a future-ready, versatile ingest and playout platform for highly optimized broadcast workflows. The new R&S®VENICE platform can be flexibly adapted to your requirements thanks to its software architecture and scalability. For channel playout, studio and live applications, the best application scenario is always just a software license away. The foundation is our new R&S®VENICE microservice core paired with commercial off-the-shelf hardware and a video I/O board designed by Rohde & Schwarz. This allows R&S®VENICE to connect to traditional SDI infrastructures as well as IP infrastructure. You control the pace of the transition to future architectures.

R&S®VENICE – built for today, ready for tomorrow.

THE NEW R&S®VENICE PLATFORM
ENDLESS POSSIBILITIES AND ADVANTAGES

FEATURES AND BENEFITS

On-air reliability
The entire system has no single point of failure due to the redundancy of every system-relevant component.

Hybrid SDI/IP functionality
Thanks to its unique board design, R&S®VENICE can switch from SDI to IP (ST 2110) by simply exchanging the SFP+ modules.

New architecture
R&S®VENICE can be scaled to meet your requirements, no matter how many channels and how much storage capacity or bandwidth you need.

UHD and HDR-ready
R&S®VENICE supports up to two UHD p60 channel (bidirectional) and up to eight HD p60 channels (bidirectional) and handles HDR material with ease.

Standard server platform
R&S®VENICE uses a standard IT server whose reliability and performance has proven itself a thousand times over in data centers worldwide.

Comprehensive software-based codec support
R&S®VENICE minimizes the need for transcoding by supporting a variety of software-based codecs that can be expanded via future software updates.

Interoperability
Being highly interoperable due to support for various communication protocols such as VDCP, FIMS, MOS and more, R&S®VENICE fits perfectly into today’s best-of-breed setups and enables broadcasters to integrate R&S®VENICE into any media value chain.

Storage options
R&S®VENICE can be equipped with up to 24 TB internal RAID storage and natively integrates into Spectrum Scale infrastructures.

Reliability

Hybrid SDI/IP

New architecture

UHD/HDR

COTS platform

Multi-codec support

Interoperability

Storage options
R&S®VENICE is built for 24/7 operation. The combination of a commercial off-the-shelf server, the new Rohde & Schwarz Virtual Storage Access (VSA) technology and our proven R&S®SpycerBox Cell storage solution offers unrivaled stability and speed in challenging multichannel playout scenarios. The Rohde & Schwarz VSA layer serves as a separation plane between the software and hardware to simulate a single storage entity. Additionally, all system-relevant components are redundant to prevent a single point of failure.

R&S®VENICE – on air. 24/7.

**BENEFITS**

**Major automation support**
R&S®VENICE can be controlled via VDCP (serial and TCP/IP) and FIMS web services from industry-leading automation manufacturers.

**Device manager**
Thanks to the new administration tool, you can set up and configure all R&S®VENICE servers, R&S®SpycerBox Cell storage units and R&S®Spycer Media Gateway servers in a network from one centralized interface.

**Rohde & Schwarz virtual storage access technology (VSA)**
To completely avoid single points of failure, the new Rohde & Schwarz VSA technology virtualizes a single point of access for redundant storage repositories. In combination with the redundant system-relevant components, the Rohde & Schwarz VSA technology enables continuous broadcast operations.

**Centralized broadcast storage**
An essential part of the playout solution is the high-performance R&S®SpycerBox Cell storage unit. R&S®SpycerBox Cell is a flexible and modular shared storage solution with up to 30 hot-swappable drives in one rack unit. It is the core of the R&S®VENICE broadcast environment, offering the perfect combination of performance, redundancy and easy maintenance.

**USE CASE EXAMPLES**

1+1 redundancy

1+n redundancy

![Diagram of 1+1 redundancy network](image1)

![Diagram of 1+n redundancy network](image2)
R&S®VENICE APPLICATION SUITE

R&S®VENICE Remote UI
The unique remote user interface from Rohde & Schwarz allows production workflows to be controlled independently of resolution, using the same familiar interface for SD, HD and UHD productions. The remote user interface helps you to manage all tasks reliably and quickly, from ingest to transcoding and playout processes.

R&S®VENICE Play
The R&S®VENICE Play software application is designed to simplify your life in hectic studio and live situations. R&S®VENICE Play provides clarity when managing multiple channels for studio and production playout applications.

R&S®VENICE Control
Rohde & Schwarz developed R&S®VENICE Control in close cooperation with leading studio production companies to meet the high demands of multi-camera recordings. R&S®VENICE Control makes it possible to record up to 16 independent SD, HD or UHD-1 channels in all professional production and broadcast formats.

R&S®VENICE View
R&S®VENICE View, a dedicated multiviewer application from Rohde & Schwarz, is the perfect addition to the R&S®VENICE product line. R&S®VENICE View uses a sophisticated IP-based software architecture that makes costly conventional SDI infrastructure and dedicated multiviewer hardware obsolete.

Multicam Ingest

R&S®VENICE Control

Live Cameras
new R&S®VENICE

R&S®SpycerBox Cell (Storage)

Studio Playout

R&S®VENICE Play
Backup

Studio Automation Main
Backup

R&S®VENICE View
Multiviewer

UHD Distribution

new R&S®VENICE

R&S®SpycerBox Cell (Storage)

R&S®SpycerBox Cell (Storage)
Rohde & Schwarz
The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, secure communications, cybersecurity, monitoring and network testing. Founded more than 80 years ago, the independent company which is headquartered in Munich, Germany, has an extensive sales and service network with locations in more than 70 countries.

Sustainable product design
► Environmental compatibility and eco-footprint
► Energy efficiency and low emissions
► Longevity and optimized total cost of ownership

Rohde & Schwarz GmbH & Co. KG
www.rohde-schwarz.com

Rohde & Schwarz training
www.training.rohde-schwarz.com

Regional contact
► Europe, Africa, Middle East | +49 89 4129 12345 custumersupport@rohde-schwarz.com
► North America | 1 888 TEST RSA (1 888 837 87 72) customer.support@rsa.rohde-schwarz.com
► Latin America | +1 410 910 79 88 customersupport.la@rohde-schwarz.com
► Asia Pacific | +65 65 13 04 88 customersupport.asia@rohde-schwarz.com
► China | +86 800 810 82 28 | +86 400 650 58 96 customersupport.china@rohde-schwarz.com

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG
Trade names are trademarks of the owners
PD B215.5020.62 | Version 03.00 | December 2019
R&S®VENICE: Your media workflow platform.
Data without tolerance limits is not binding | Subject to change
© 2019 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany