VuWall

TRx
Centralized Management

best of show 2022 AT ISE 2022 Winner SOUND&VIDEO CONTRACTOR

scn INSTALLATION PRODUCT AWARD WINNER 2021

Powerful Centralized Multi-Video Wall Management Platform

TRx provides organizations with a powerful and unique software platform to configure and operate their video walls within corporate workspaces and mission-critical control rooms. TRx is unique in distributing AV-over-IP content and providing advanced video wall management and control – all from a single easy-to-use intuitive platform. TRx can manage multiple sources in any source format and easily route them to single displays or multiple video walls, without any programming!

TRx simplifies the deployment of complex AV-over-IP projects, reducing risk and on-site deployment time. Easily install, route and service hundreds of sources without any programming, thanks to its interoperable and hybrid design.

TRx is designed to manage PAK™ video wall nodes, VuScape™ video wall controllers, and VuStream™ encoders and decoders. Its open architecture also supports third-party technology, making it scalable, interoperable, and future-proof, by design.

Features

- Control of an unlimited number of inputs & outputs
- Easy to use drag-and-drop operations for easy configuration, deployment, and management
- No programming required to configure network devices & presets
- Embedded control panel designer
- Extensive API simplifying workflows

- Interoperable standards-based IP solution supporting SDVoE, H.264, SRT, and others
- Compatible with VuStream and 3rd party end points from IHSE, Matrox, and other manufacturers
- Advanced multi-display & multi-resolution management
- Web-based management. No software to install.
- Powered by VuTrex™ technology

POWERED BY VuTrex™

Interoperable
Compatible with 3rd party brands. Supports H.264, H.265, SDVoE, NDI and SRT.

Ease of Use
Easy drag-and-drop operations to configure and operate all your devices.

Reduce Risk
No programming required, reducing configuration & deployment time in the field.

Flexible and Scalable
Buy only what you need. TRx grows as your installation expands.


Need help? Talk to a video wall expert!
Contact us at sales@vuwall.com

vuwall.com
Control what you see.

VuWall

TRx Workflow

Sources

HDMI/DVI/DP   **IP Sources**
IPTV

VuStream Encoders

Desktop Sharing & Control

Application Server

KVM CPUs & Matrix Switch

TRx Centralized Management

TRx Server

LAN or WAN

Managed Network Switch

TRx Software   **ControlVu Touch Panel**

Destinations

PAK Video Wall Nodes
Stitched Video Wall

VuStream Decoders

VuScape Video Wall Controller
LED, LCD

KVM Operator

TRx Applications

Control Rooms
VIDEO WALL CONTROL & KVM

Corporate Workspaces
MULTI-SOURCE VISUALIZATION

Experience Centers
VERSATILE DISPLAY MANAGEMENT

Crisis Rooms
UNIFIED VISUALIZATION

Lobby Signage
CONTENT MANAGEMENT & DISTRIBUTION

Classrooms & Auditoriums
PRESENTATION & COLLABORATION

TRx Centralized Management Software Platform

Features

Centralized Web-Based Management
Manage and control the system with any standard browser from anywhere on the network. No software to install.

Advanced Multi-Display Visualization
Display pristine-quality content from any source to any display type, whether LCD, LED, or projector. Despite the size and aspect ratios, TRx ensures a perfect viewing experience every time.

Multi-Floor, Multi-Site Management
Define zones and floors for easy control of multiple rooms and sites. Each operator can manage local and remote content easily from a single intuitive user interface and bring any content to any destination with a single drag-and-drop operation.

User Rights Management
Administrators can fine-tune permissions to individual users or groups with or without Active Directory. Access restrictions can be set on floors, zones, sources and displays. Permissions can be set to perform joins on video, audio, keyboard/mouse, and USB. Users can also be granted access to create/save/edit/delete presets, control panels, scripts, and more.

Easy Drag-and-Drop Operations
Manage all AV experience through easy drag-and-drop, from source configuration and routing to advanced video wall management.

Advanced Video Wall Management
Control and manipulate content on any video wall: move, resize, crop or zoom. Send layouts created on one wall to any other wall. Manage all encoders and decoders via TRx, making it a full AV over IP solution.

Source Management
Manage all sources in the system quickly and efficiently with TRx's intuitive UI. Features include sorting and filtering, active preview mode and individual thumbnail upload. TRx supports a wide range of IP streams, HDMI, DP, and HD-SDI sources, applications, screen captures, pictures, videos, websites, and documents.

Secure Data
All data transmitted between the TRx web server and the HTML5 client is fully encrypted with TLS 1.2. Sources and IP streams are secured with 128-bit AES encryption.

VMS Plugin for Genetec™ Security Center
Control room operators can manage VuWall video wall controllers and other AV-over-IP devices directly from the already-familiar Genetec™ Security Center interface without switching applications.

TRx Centralized Management Software Features

Video Wall Stitching

Build unlimited-sized video walls by stitching multiple PAK video wall nodes or VuStream 510 SDVoE decoders for a full SDVoE video wall. Stitching brings increased performance, scalability, versatily, and reliability.

Audio Management

Manage audio controls for all encoders, decoders and video wall controllers and nodes, including physical inputs and browsers.

KVM Control

KVM devices can be fully integrated, controlled and used in TRx. Enhanced features include private mode and USB device switching. The TRx Capture Server allows operators to convert any PC on the network into a KVM source for soft-KVM control including audio.

Powerful Scripting Tool

Built-in tool to easily create custom macro-commands and automate series of tasks in a TRx deployment. Tasks include commands such as manipulating layouts and triggers, controlling external devices such as switching displays on/off and controlling audio settings. All commands can conveniently be assigned to control buttons on the ControlVu touch panels.

REST API

Extensive REST API with sample code and interactive documentation of every function for third-party integrations. Use easily with various manufacturers like AMX, Crestron, Utelogy and Extron.

Supported Devices

TRx supports multiple hardware platforms including:

- ✔ VuWall's PAK & VuScape video wall processors
- ✔ VuWall's VuStream series of encoders/decoders
- ✔ IHSE KVM switches
- ✔ Third-party encoders/decoders: SDVoE, SRT, and NDI

Unattended Monitoring

Monitor up to 50 computer screens or video walls for color changes to automatically trigger alarms or events improving response times in control room environments. Customize the automation of alarms and events from any application to 3rd party devices.

VuTrex™ Technology

TRx is powered by VuWall's unique hybrid and interoperable technology delivering a true unified visualization solution.

Software Updates

Get a new software release every 3 months with our support program. Keep your system secure and updated. Benefit from new features designed to adapt to your evolving business needs.

Redundancy and Availability

Ensure full availability and control of your visualization infrastructure with redundancy and High Availability (HA) options.
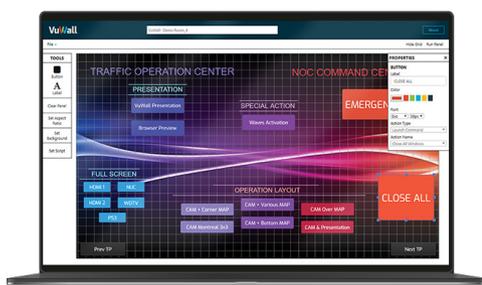

Control Panel Designer

Create a fully customized touch panel with the integrated Control Panel Designer. No programming required! Each button can launch layouts, scripts or even control external devices. Multiple panels can be created from the same interface, allowing a single administrator to design a custom panel for every operator station. Users can upload logos, images, backgrounds, and create custom buttons with a variety of shapes and colors. The possibilities are endless!

Software Options

TRx ENTERPRISE

- ✔ Projects with AV distribution and one or multiple video walls
- ✔ Supports unlimited sources and destinations
- ✔ Supports entire VuWall ecosystem of products

Sources

- HDMI/DVI/DP
- IP Sources
- VuStream Encoders
- Desktop Sharing & Control
- Application Server
- KVM CPUs & Matrix Switch

LAN or WAN

TRx ENTERPRISE

Destinations

- PAK Video Wall Nodes — Stitched Video Wall
- VuStream Decoders
- VuScape Video Wall Controller — LED, LCD
- KVM Operator
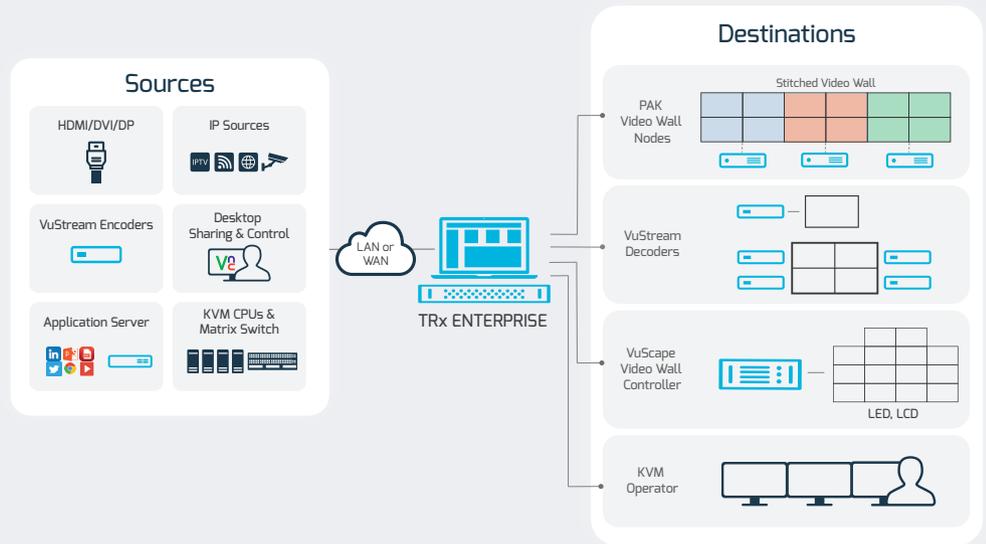
TRx ONE

- ✔ Projects with single PAK 40 or single VuScape video wall controller
- ✔ Runs directly on VuScape (separate server not required) . If used with PAK, server is required
- ✔ Does not support external decoders

Sources

- HDMI/DVI/DP
- IP Sources
- VuStream Encoders
- Desktop Sharing & Control
- Application Server

LAN or WAN

TRx ONE

Destinations

- VuScape Video Wall Controller — LED, LCD
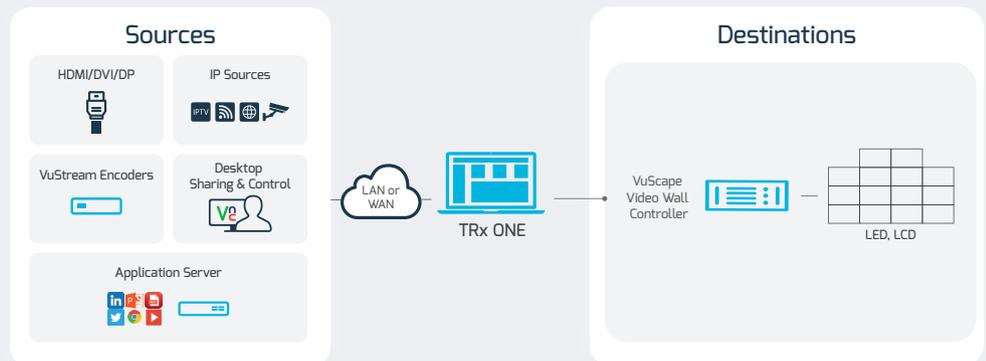
TRx AV

- ✔ For projects with AV distribution only
- ✔ Manage VuStream or 3rd party encoders and decoders
- ✔ Does not support PAK and VuScape video wall processors

Sources

- IP Sources
- Desktop Sharing & Control
- VuStream Encoders
- Application Server

LAN or WAN

TRx AV

Destinations

- VuStream SDVoE Decoders
- VuStream Decoders
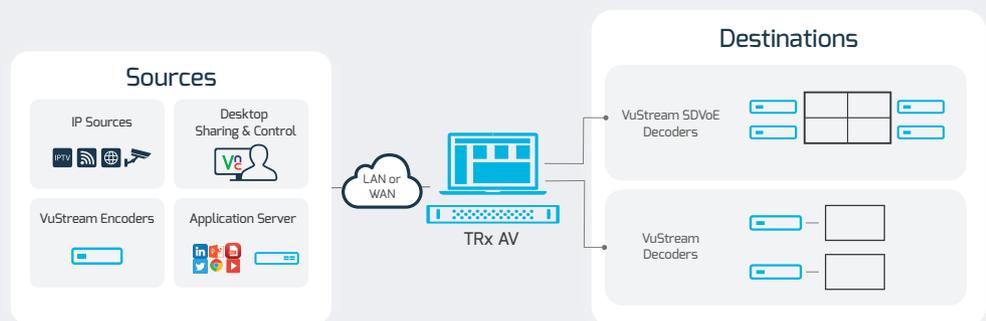
TRx Software Features

VuWall

	TRx AV	TRx ONE	TRx ENT
Device Support			
PAK Video Wall Nodes		O	O
VuScape Video Wall Controllers		O	O
VuStream Encoders & Decoders, IHSE Matrix, SDVoE & NDI devices	O		O
ControlVu Touch Panels	O	O	O
Control and AV Management Features			
Client/server architecture. Can be managed from HTML5 compatible browsers (e.g.Chrome)	O	O	O
TLS 1.2 support for secured client/server communication	O	O	O
Automatic detection of encoder/decoder devices on the network	O	O	O
Arrange sources and displays across multiple zones and floors	O	O	O
Filter sources and displays based on type or location	O	O	O
Load and save presets for rooms and floors	O	O	O
Load and save layouts per wall	O	O	O
Control panel designer to create custom interfaces	O	O	O
Advanced User Profile Management with Active Directory		O	O
Advanced Multi-Display/Multi-Resolution Management		O	O
Sources Features			
Active preview of IP sources	O	O	O
Upload of individual thumbnails for each source	O	O	O
Colored borders and OSD		O	O
Crop IP stream and directly connected sources		O	O
Scrolling text and messages with text, files and RSS feeds		O	O
Embedded viewer to display websites including support of user credentials		O	O
Manage local applications installed on VuScape controller		O	O
Universal viewer to show pictures, documents, videos		O	O
Audio support for encoders and decoders (TRx AV) and video wall controller (TRx ONE only)	O	O	O
Screen capture of computers, including audio, over network with 128-bit AES encryption and VNC sources (sold seperately)		O	O
Plugin to Genetec™ Security Center (sold seperately)		O	O
Scripting & API Features			
REST API for 3rd party devices (Crestron, AMX, etc.)	O	O	O
Control of 3rd party devices (displays, matrix switches, etc.) with powerful scripting languages	O	O	O
Alarm management (scripting) and support for I/O devices	O	O	O
Encoding of HDMI inputs of entire wall or region of interest (on VuScape Series 2 only)		O	O
Redundancy module for fault-tolerant systems with dual video wall controllers		O	O
KVM Features			
Control and manage KVM devices and use them as a source	O		O
Private Mode preventing other users to access or view specified sources			O

TRx User Interface

The TRx user interface is the result from years of customer feedback. Developed to simplify the configuration   of your video wall deployments, AV-over-IP management, and day-to-day video wall operations, TRx features an intuitive easy-to-use drag-and-drop interface with advanced scripting tools, a control panel designer and device provisioning, all without the need for any programming.
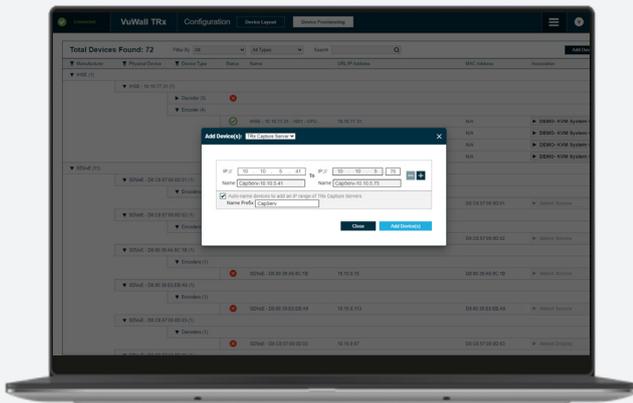
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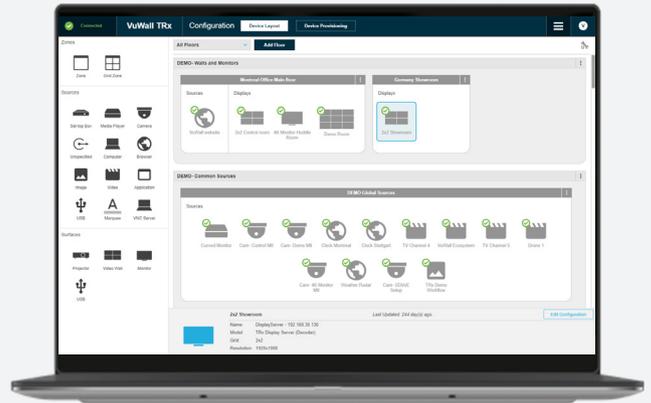
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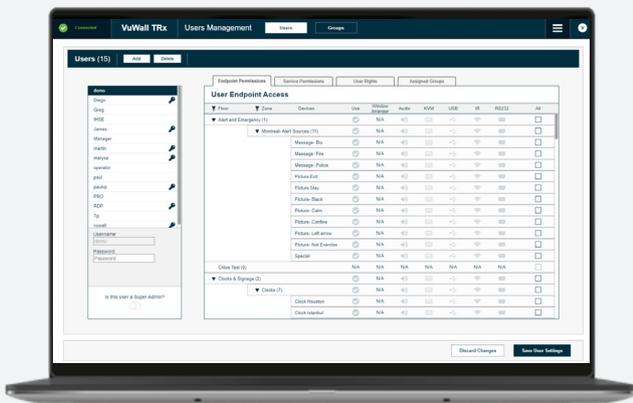
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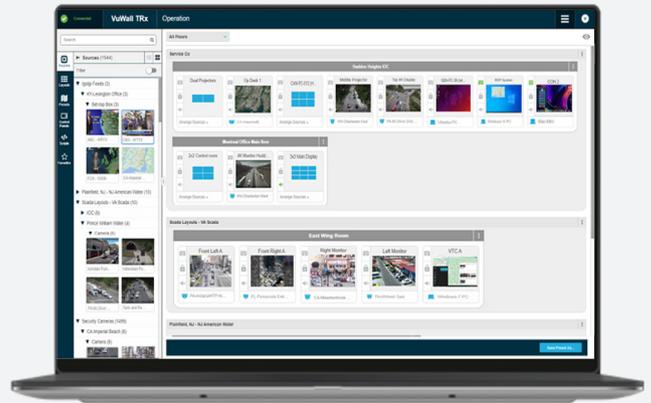
OPERATION

Centralized Management Server Options

VuWall servers power TRx AV and TRx ENTERPRISE software options (not required for TRx ONE) and are available in two sizes: the 1U rack mountable server available in Single, Redundant and Cluster Server versions.

Server Mini

A compact form-factor server to easily and effectively manage small-scale projects. Ideal for areas with limited space for hardware.

Server Redundant

- ✔ Redundant Power Supply
- ✔ Two SSD drives in redundant configuration
- ✔ Hot-swappable SSD drives

The 1U rack mountable server, powered by a redundant power supply and two Solid State Drives in redundant configuration ensures optimal performance. Two LAN ports allow the server to be connected to more than one corporate network enabling redundancy of the AV infrastructure and offering network flexibility and additional control.

Server Cluster

- ✔ Fully redundant
- ✔ High Availability (HA) with automatic failover
- ✔ Easy back-up and restore
- ✔ Includes three servers

Offering full redundancy of the entire AV infrastructure with three hot-swappable servers, delivering the highest availability with automatic redundancy. Servers are connected over a 1GB network, allowing them to be located across multiple sites, while the TRx software suite runs on a virtual machine on the Server Cluster.

Technical Specifications

Product Name	Server Mini	Server Redundant	Server Cluster*
SSD	Single SSD	Two Hot-Swappable SSD drives in redundant configuration	Single SSD
Weight	1.4 kg / 3 lbs.	7.9 kg / 17.4 lbs.	7.9 kg / 17.4 lbs.
Dimensions	179W x 183D x 37H mm 7.0"W x 7.2"D x 1.5"H	434.6W x 382.2D x 43.2H mm 17.11"W x 15.05"D x 1.70"H	434.6W x 382.2D x 43.2H mm 17.11"W x 15.05"D x 1.70"H
Power	External Power Supply with 100 - 240 VAC	2x 100 - 120 VAC or 200 - 240 VAC	1x 100 - 120 VAC or 200 - 240 VAC
Power Consumption	90W	500W	500W
Power Supply	Single	Redundant	Single
Operating Conditions	0-35°C / 32-95°F Humidity 20-80%	10-35°C / 50-95°F Humidity: 8-90%	10-35°C / 50-95°F Humidity: 8-90%
Noise Level	Max. 30dB (Depends on system config and room temperature)		
Warranty	3 years		

Mounting Hardware

VESA	75/100mm (hardware included)	NA	NA
Rackmount	NA	19" 1RU	19" 1RU

Network Interface

Connectors & Standard	1x RJ45, 1 GbE	2x RJ45, 1 GbE (each)	2x RJ45, 1 GbE (each)
IP Version	IPv4/IPv6		
IP Addressing	Static IP and DHCP		

*The Server Cluster includes 3x 1RU servers. Tech specs are specified for each of the 3 servers.

The VuWall Ecosystem
Unified Visualization & Video Wall Control

The VuWall ecosystem of interoperable products is built on a unique standards-based architecture that provides the most effective distribution of visual information, from any source to any display or video wall throughout organizations.

At the center of the ecosystem is the TRx Centralized Management Platform. TRx bridges AV, IT and IP systems ensuring interoperability and ease of use, simplifying AV-over-IP deployments, thus reducing deployment time and integration risk.
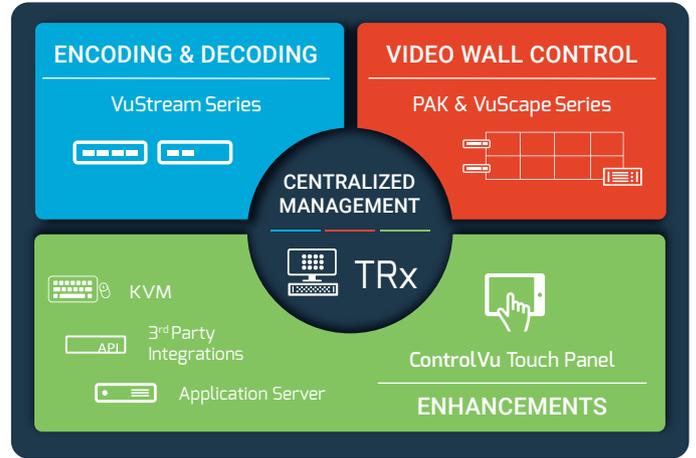
Video Wall Management & AV Distribution Made Simple
From Any Source to Any Display

TRx
Centralized Management

PAK
Video Wall Nodes

VuStream
Encoders & Decoders

ControVu
Touch Panels
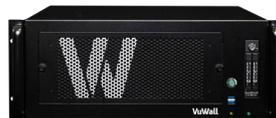
VuScape
Custom Video Wall Controllers

Enhancements
More Interoperable Products

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