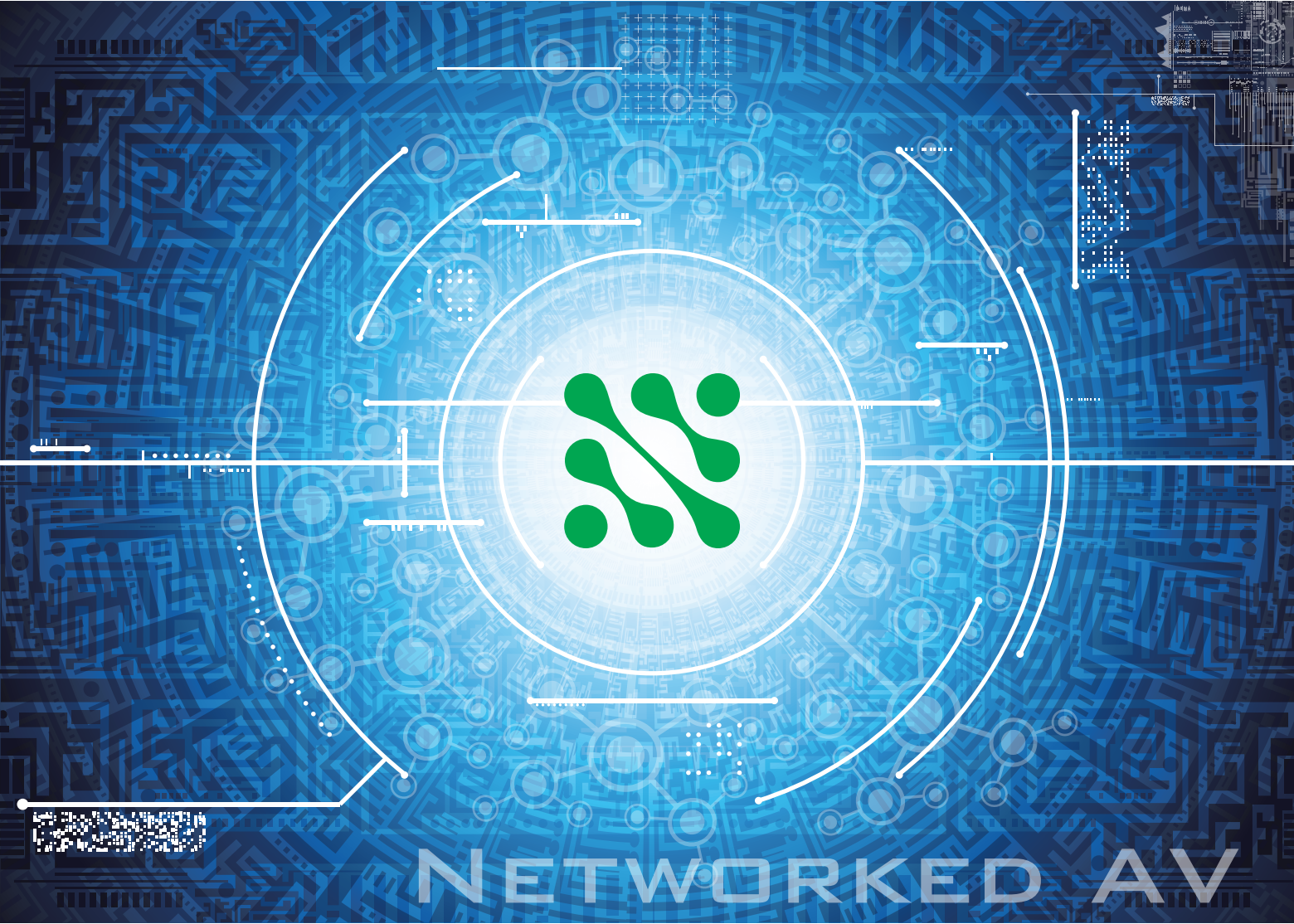




# Archived resources

For further resources and  
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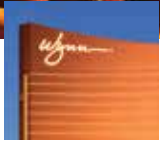
## NETWORKED AV

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□ □
 Distribution | Switching | Control | Windowing | Wall Processing | Recording

# ANY SOURCE | ANYWHERE

- |   |  |   |  |  |  |   |   |  |   |  |  |   |   |   |
|---|--|---|--|--|--|---|---|--|---|--|--|---|---|---|
|  Projector |  Camera |  Blu Ray |  Codec Farm |  Recorder |  Media Player |  Desktop |  Digital Signage |  Conference Rooms |  IPTV |  Training Rooms |  Auditorium |  Theater |  Display |  Audio |
|---|--|---|--|--|--|---|---|--|---|--|--|---|---|---|

# IP-Based Distribution & Switching



The Wynn Casino sends 66 sources to 125 displays. The system also includes 11 windowing processors, 14 audio endpoints, and SVSi's N-Command Controller.

**4K**

**UC  
JPEG**

SVSi offers the only 4K end-to-end distribution and seamless switching solution on the market. Multiple sources

(either 4K or HD) can be sent to multiple displays over copper or fiber interfaces and switched through standard IP networks. All resolutions between 480p and 4K are supported through either standard copper or fiber to the device. SVSi's 4K products accept HD or SD and scale to UltraHD for legacy video sources.

**Local**

**N1000  
UC**

SVSi's uncompressed HD encoders and decoders offer the ultimate in video quality and low acquisition cost. All resolutions are

compatible with standard cat-5e cable and support video matrix sizes up to 32x32. Options such as scaling, PoE, 7.1 embedded audio, and a free TCP/IP controller in each encoder and decoder make standard integration tasks simple, quick, and cost effective.

**LAN**

**N2000  
JPEG**

The industry-standard compression codec for HD motion cinema can deliver your HD or CG content when and where it's needed

for applications including conference rooms, auditoriums, corporate communications, sports bars, casinos, and digital signage. Send multiple HD video streams over a house network or a physically separate network using standard switches and routers.

**WAN**

**N3000  
h.264**

For the highest video quality at the lowest possible bandwidth, h.264 is the accepted standard for internet distribution. SVSi's

series of h.264 encoders and decoders deliver the best fidelity for a given bandwidth.

SVSi's IP-based product offerings are unique in delivering the absolute best video and audio quality possible over any network segment or link – whether a managed local-area network, fiber uplink, or low bit-rate internet connection. Although many of our largest deployments are over house networks, a big advantage of our Networked AV technology is that low-cost network appliances with high Mean-time-between-failures (MTBF) can be used on a dedicated video network with zero impact on the house network. SVSi offers multiple free control options to control video and audio routing, as well as third-party devices through IR, serial, switch closure, or TCP/IP.

- Complete suite of input/output IP-based solutions:
  - Ultra HD 4K
  - Cinema HD grade
  - H.264 HD streaming
  - HD economical in-room
  - Mouse and keyboard extension options
- Input and output scaling options on all encoders and decoders
- Embedded 7.1 digital audio or deembedded balanced analog audio inputs and outputs
- Versatile and flexible control solutions

## REAR VIEW EXAMPLE

### N2121 Encoder Rear View



- |  |   |
|--|---|
| 1) 12VDC Input (not needed with POE)   | 5) Infrared (IR) emitter connection                         |
| 2) Status Indicators   | 6) RS232 connection   |
| 3) RJ-45 auto-sensing gigabit Ethernet switch port – POE (Power Over Ethernet) | 7) Analog Audio Input connection                            |
| 4) RJ-45 auto-sensing gigabit Ethernet switch port                             | 8) Pass-through DVI-D connection                            |
|  | 9) DVI-I Digital Video with 7.1 Audio or Analog Video Input |

### N2221 Decoder Rear View

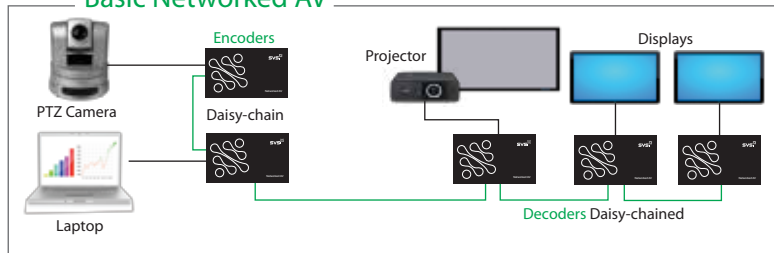


- |  |  |
|--|--|
| 1) 12VDC Input (not needed with POE)   | 5) Infrared (IR) emitter connection          |
| 2) Status Indicators   | 6) RS232 connection                          |
| 3) RJ-45 auto-sensing gigabit Ethernet switch port – POE (Power Over Ethernet) | 7) Analog Audio Output connection            |
| 4) RJ-45 auto-sensing gigabit Ethernet switch port                             | 8) DVI-D Digital Video Output with 7.1 Audio |

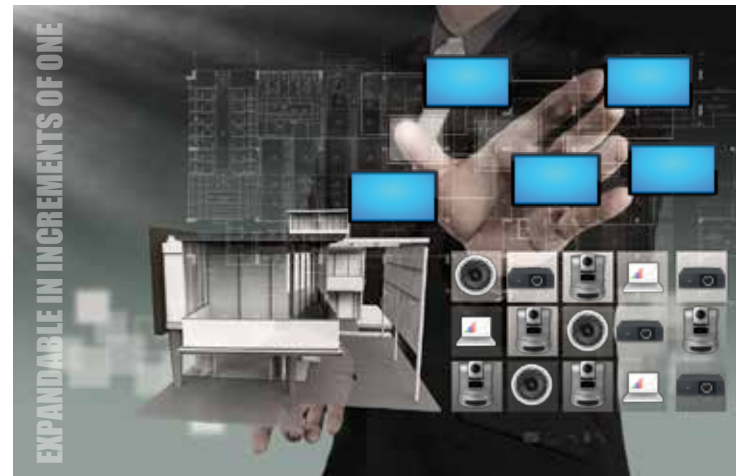
# ANY SOURCE | ANYWHERE

SVSi's N-Series is an IP-Based Solution that is scalable and will grow as your needs grow

## Basic Networked AV

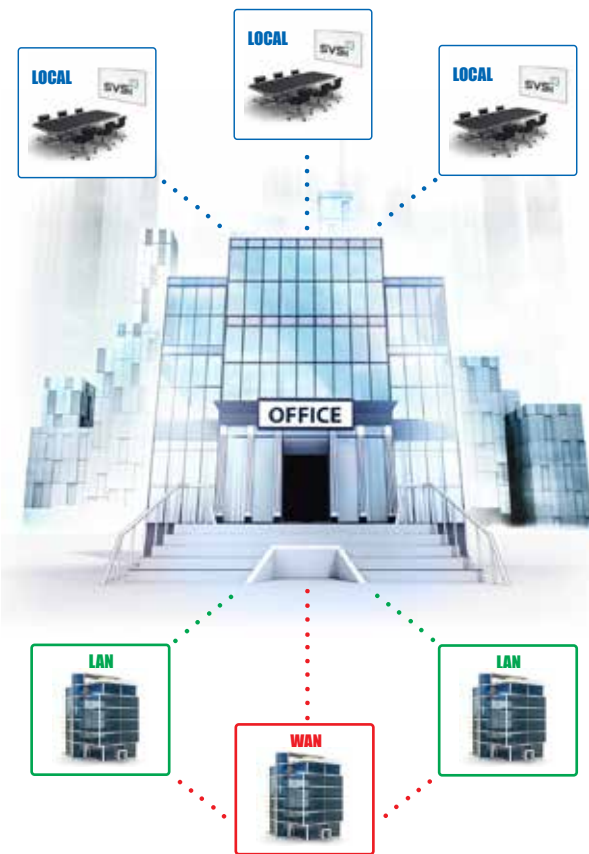


Design a SVSi Networked AV System on your existing house network or use standard layer three switches to build a separate AV System. With SVSi, your system is scalable and will grow as your needs grow. When you need to expand your system with sources or displays simply add an Encoder or Decoder depending upon your additional needs - it's that simple!

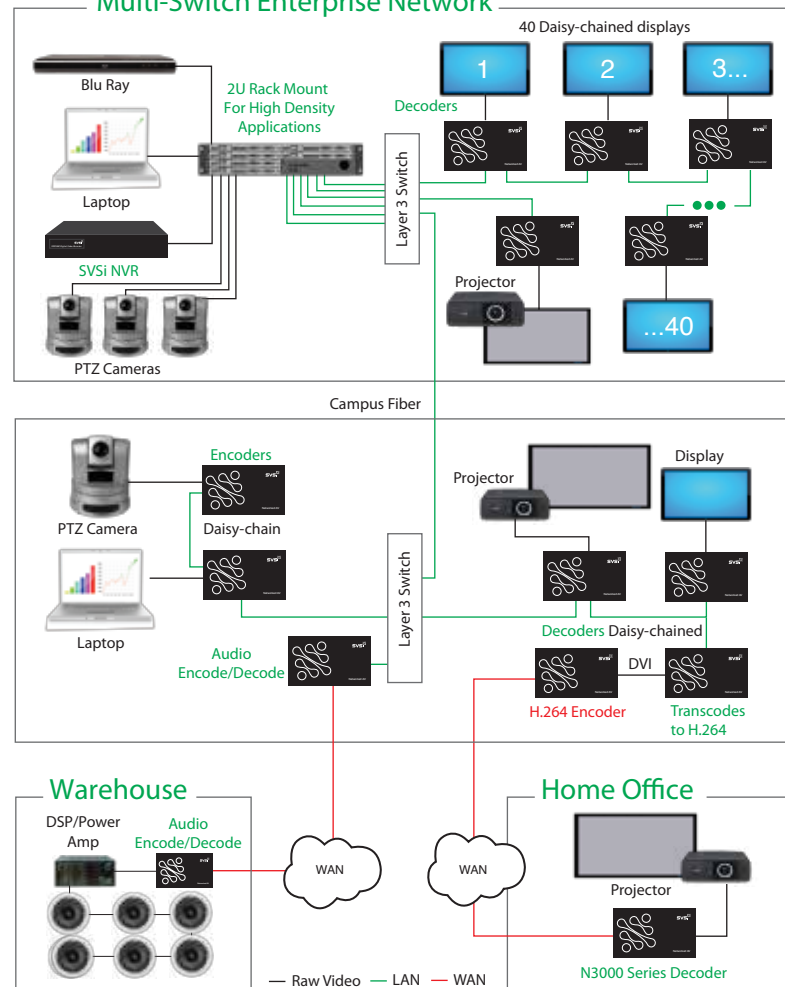


Inputs and outputs are scalable in increments of one.

## Multi-Switch Enterprise Network



SVSi's N-Series maximizes performance and cost by offering solutions specifically for local in-room, LAN, and WAN configurations. All N-Series products can be connected together using industry standard IP switches, allowing you to design any size AV matrix with an unlimited number of inputs and outputs. Your imagination is the only limitation!



Build an AV matrix that seamlessly connects multiple conference rooms in buildings on a corporate campus LAN to offices all over the world through the WAN with an unlimited number of inputs and outputs.

# IP-Based Networked Attached Accessories

## Deploy Audio-Over-IP

With the N4321 users can easily and cost effectively deploy audio over IP. Realize the unlimited possibilities of distributed audio over your existing LAN and WAN networks. Setup and management is a breeze and because you are using the network your content can be heard anywhere, anytime, anyplace! The scalable N4321 Audio Transceiver provides you with a path for growth and installation is simple as plugging in an ethernet cable.

Perfect for point-to-point or point-to-multi-point audio delivery, the N4321 provides audio matrix switching and distribution using the same control options as SVSi's Networked AV video switching and distribution solution.



## Record-Over-IP

The SVSi N6123 is a network video recorder capable of recording hours of high-resolution, multi-channel HD content over a network connection. This rack-mount NVR is compatible with all SVSi video-over-IP products and attaches to the video network at any point. Each video stream is recorded and played back at its original resolution. The N6123 acts as a decoder during recording and as an encoder during playback. The N6123's 2RU form-factor is stackable for a high density of recorded video streams in a small footprint.

**Estimated Recording Time: 1080p sources at high quality**

**N1000** 4 hrs  
43 min

**N2000** 43 hrs  
27 min

**N3000** 434 hrs  
39 min



## Windowing and Walls - There are no limits!



The N-Series Windowing Processors are 1RU rack-mount appliances that connect to an SVSi video network and accept any four video streams as input. Each input can be cropped, scaled, and positioned according to stored presets (such as picture-in-picture, quad, window-in-window, 3+1, etc) or in any user-defined configuration. The combined output video stream is then routed to one or more displays at HD 1080p or CG 1600x1200 resolution. The Windowing Processors function as a 4x1 windowing processor and can be stacked to give 7x1, 10x1, 13x1, 16x1, or higher capability. A single connection to the network provides access to all available SVSi video streams for window selection and for output of the combined stream.



*Ideal for medical and educational institutions, houses of worship, or corporate campuses that want to simultaneously distribute live video through a facility and record it for future network transmission or other delivery methods.*



## N-Control

SVSi's N-Control solutions provide you with the most flexible options available, insuring you are getting the most out of your Digital Media System. Choose any method of control: N-Touch, N-Act, N-Command. With SVSi, it's true IP, so control to any device, anywhere, anytime can be achieved. No one else can provide such flexibility, versatility, and value! Sure we can still send commands via IR, RS232, or even 12v contact closures, but with our family of IP control solutions you can be assured your control will work in today's and tomorrow's AV networks.

### N-Command | Control Appliance

Web-based hardware Controllers offering control options from 5 user/50 devices to unlimited users and devices, includes simplified ASCII interface for 3rd party control via telnet, TCP/IP, or serial. Enterprise controller offers master/slave fail-over protection, hot-swappable drives, and redundant power supplies.

- Intuitive and powerful management of equipment configuration, content management, NVR recording and playback, bandwidth utilization, and AV switching using a web-based, point-and-click graphical matrix .
- View a graphical presentation of video network connections, assign fixed IP addresses for each SVSi component, and adjust variable bit-rate for each video stream.

All N-Series encoders and decoders have on-board, built-in control capability via events that can trigger any number of TCP/UDP commands to other IP controllable devices.

### N-Act | On-Board Control

- Event types are 'power on' (the device powers on), 'Video Connect', and 'Video Disconnect'. Once any of these events occur, encoders and decoders will send out a pre-determined list of commands to any number of devices.
- Control devices such as blinds, lighting, cameras, etc into scripts and panels.



### N-Tools

SVSi provides a variety of free tools to assist with set-up and installation of SVSi Networked AV Systems.

### Panel Builder | Free Software

Build attractive touch-panels to control third-party equipment via serial, IP, or IR using these control ports on SVSi Networked AV products or on third-party equipment such as Global Cache.



- Drag and drop buttons from your button libraries or use the quick icons and program menu to create buttons from scratch.
- Import button or widget images to populate and customize a panel's appearance.
- Panel Builder is free with SVSi's N-Command and N-Touch Control Solutions



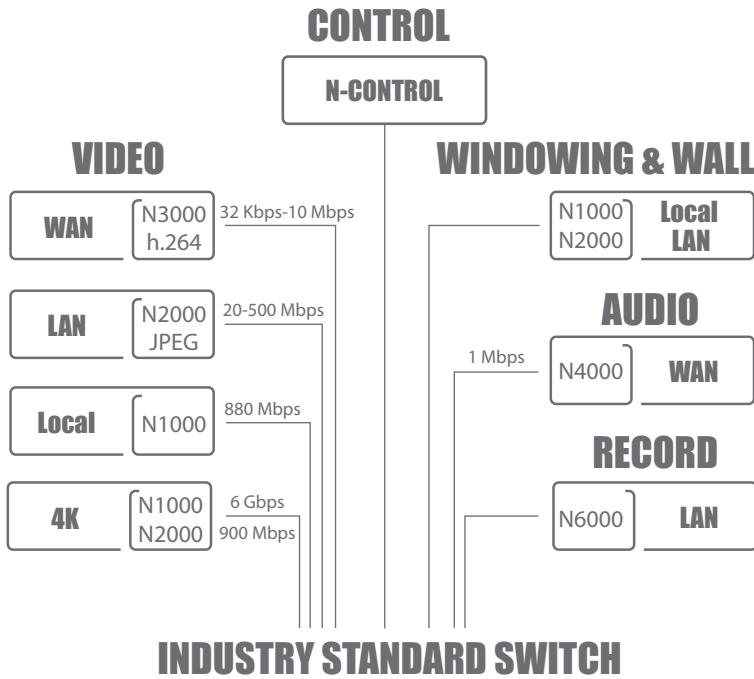
SVSi's N-Touch N8300-Series Wall-Plate Controllers are stand-alone dual-gang IP controllers that send commands to multiple IP clients with the push of a button.



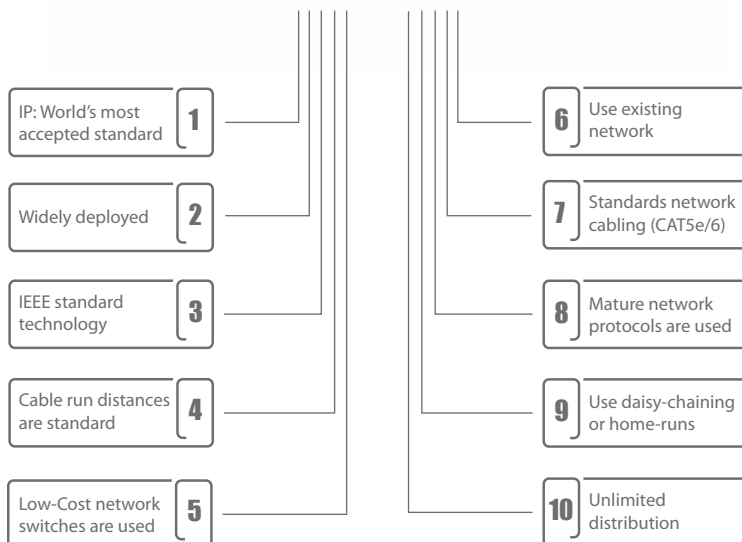
### N-Touch | N8300 Series

- Programming is through the built-in web-server with multi-page custom graphics stored internally.
- 9 Programmable tactile buttons with 240x320 display.
- Built-in WiFi and Bluetooth for expanding control to mobile devices.

# Everything You Need To Create A Powerful Managed Networked AV System

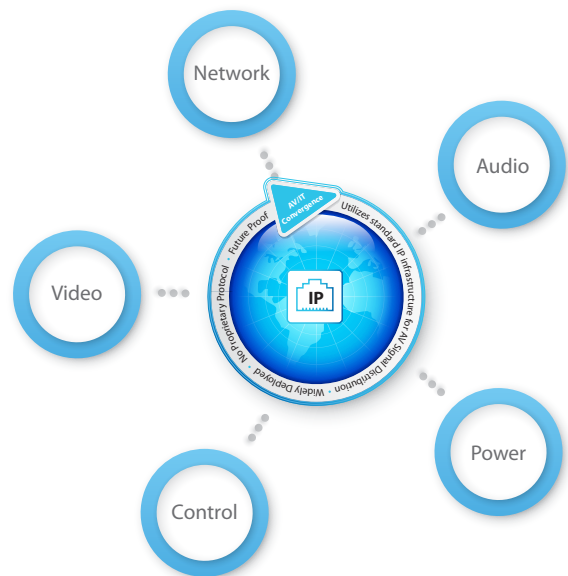


## 10 ADVANTAGES OF NETWORKED AV



## NETWORKED AV

Utilizing standard layer three switches and the power of gigabit ethernet, any combination of analog and digital sources can easily connect to any number of outputs creating a powerful managed Networked AV system solution based on IP technology, the world's most accepted networking standard. Our flexible user interface provides management with SVSi or any third-party control.



## ABOUT SVSi



Our easy to install, cost-effective products offer point-to-multipoint streaming of HD content over standard IT infrastructure. SVSi, based in Huntsville, Alabama, was founded in 2003, and has reinvented the way high-definition media is delivered to Government, Corporate, Education, Retail, Healthcare, Entertainment and Event Centers and Houses of Worship.



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Distribution | Switching | Control | Windowing | Wall Processing | Recording

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