

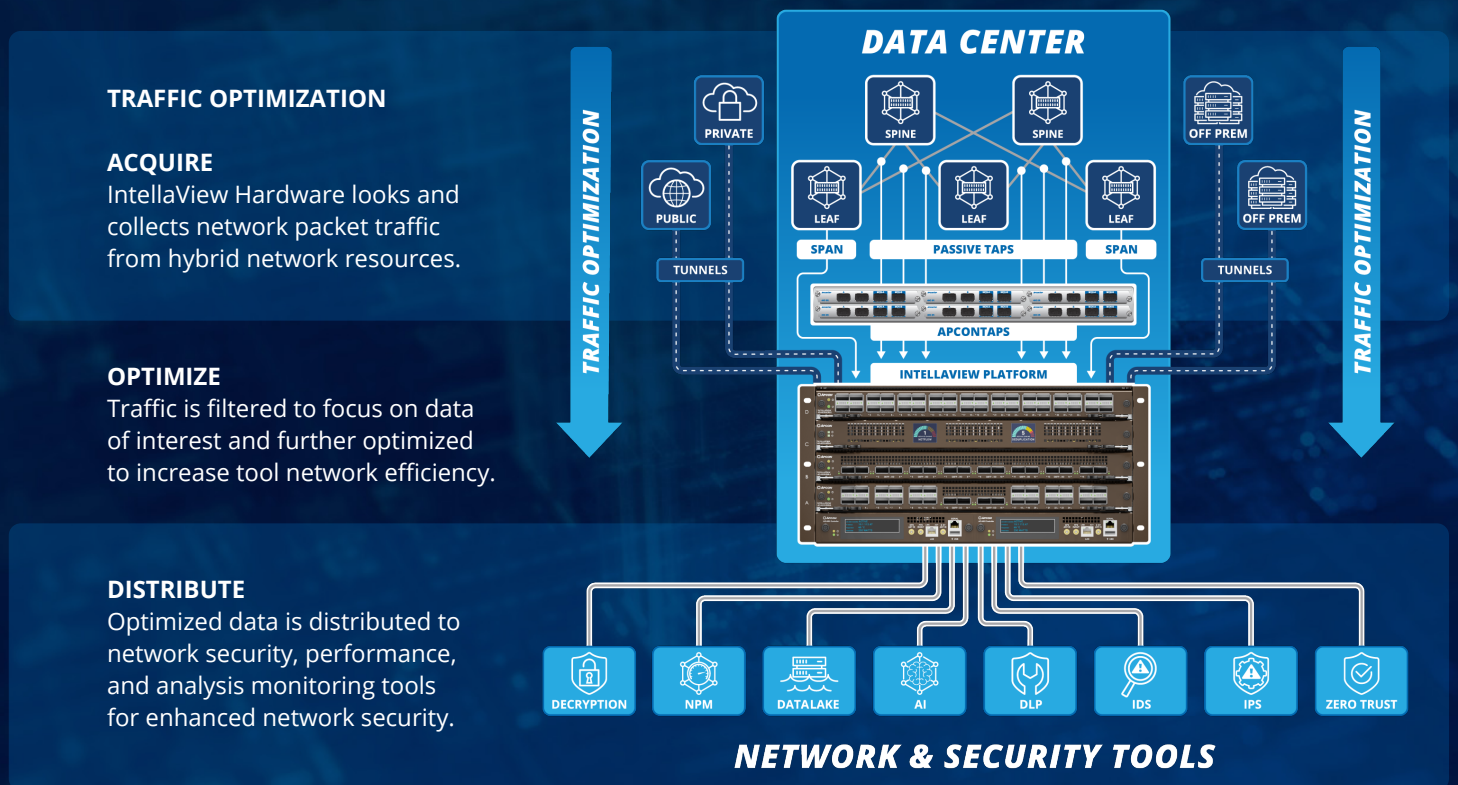
# The IntellaView Platform

ADVANCED HARDWARE AND SOFTWARE SOLUTIONS FOR NETWORK VISIBILITY



**APCON NETWORK VISIBILITY SOLUTIONS SIGNIFICANTLY INCREASE THE PROTECTIVE CAPABILITIES AND EFFECTIVENESS OF NETWORK SECURITY, ANALYTICS, AND PERFORMANCE MONITORING TOOLS.**

The **IntellaView Platform** is an advanced network visibility solution comprised of hardware and software products. Everything works seamlessly together to enhance the stability and effectiveness of your network security, monitoring, and performance tools that keep your networks running safely and smoothly. Below is a diagram that displays how APCON products fit within the flow of network traffic and how we can help your network teams mitigate costly downtimes, hacks, and data leaks.



# INTELLAVIEW CHASSIS

## Blade-Customizable Chassis

The Intellaview platform includes three multi-slot chassis: the **ACI-4020-AC 3RU**, **ACI-4040-AC 5RU**, and **ACI-4080-AC 9RU** which all include the options for multiple controller cards and fabric cards. The two front-facing controller cards come with touchscreens and provide fail-over operation for uninterrupted continuity. Other product features include hot-swappable, load-sharing, redundant AC power and hot-swappable fan modules to support constant temperature and power consistency. These chassis can also be configured with up to six switch **fabric cards**, providing full mesh connectivity between the blades and offering a dramatic increase in bandwidth potential — up to five times more than previous-generation products. By installing more fabric cards, you gain more blade-to-blade traffic bandwidth.

The Intellaview platform also features a single-slot chassis, **ACI-4010-AC 1.5RU**, that is capable of utilizing any of the Intellaview blade options. The controller function is integrated into the chassis for maximum space efficiency in remote locations or top-of-rack settings.



Expanded views of the Intellaview 5RU switch



**1.5RU | ACI-4010-AC**  
(Up to 1 blade)



**3RU | ACI-4020-AC**  
(Up to 2 blades)



**5RU | ACI-4040-AC**  
(Up to 4 blades)



**9RU | ACI-4080-AC**  
(Up to 8 blades)

## Fixed Top-Of-Rack Chassis

**The Intellaview EdgeSwitch** is a cost-efficient and small-footprint solution that organizations of any size can deploy for essential network visibility technology. Whether there is a need to reduce cabling costs, improve traffic aggregation efficiency to security tools, or both, the Intellaview EdgeSwitch scales to meet your business needs.

The Intellaview EdgeSwitch (ACI-4432-EDG-1) is a standalone high-density 1RU switch system with 32 ports of 40G/100G Ethernet capability. For faster data speeds, the **Intellaview 400G EdgeSwitch** (ACI-4532-EDG-1) provides 32 ports of 40G/100G/200G/400G. IT teams can use either version as a standalone or end-of-row solution to enable efficient Traffic Aggregation, Filtering, Load Balancing, Port Tagging, and support advanced functions such as Protocol (Header) Stripping and Packet Slicing.



### NEW INTELLAVIEW 32-PORT 400G SWITCH: ACI-4532-EDG-1

<b>Interfaces (Ports)</b>	32 x QSFP-DD ports capable of supporting up to 400G
<b>Breakout Mode</b>	QSFP-DD: - Up to 64 breakout ports of 100G* - Up to 128 breakout ports of 10G/25G/40G/50G*/100G - Up to 256 brekout ports of 10G/25G/50G

### INTELLAVIEW 32-PORT 100G EDGESWITCH: ACI-4432-EDG-1

<b>Interfaces (Ports)</b>	32 x SFP28 ports capable of supporting 40G/100G
<b>Breakout Mode</b>	QSFP28: - Up to 128 breakout ports of 10G/25G

\* Requires the use of a QSFP56 Transceiver.

# INTELLAVIEW BLADES

## Multi-Function Aggregation Blades

APCON assists networks to bridge the gap between 100G and 400G speeds in data centers, or enhance the processing speed, latency, and capabilities of their existing high-speed networks. The **ACI-4130-E28** and **ACI-4130-E16** blades provide a great platform for building 400G high-port-density core switches.

Also, APCON builds blades for speeds ranging from 1G to 100G. The **ACI-4030-E52** blade boasts incredible port density and is ideal for capturing TAP/SPAN traffic. The **ACI-4030-E36** blade has impressive traffic throughput and is capable of performing packet processing with the Advanced Feature Module.



### NEW INTELLAVIEW 28-PORT 100G/400G BLADE: ACI-4130-E28

<b>Interfaces (Ports)</b>	24 x QSFP28 ports capable of supporting 40G/100G 4 x QSFP-DD ports capable of supporting up to 400G
<b>Breakout Mode</b>	QSFP28: - Up to 96 breakout ports of 10G/25G  QSFP-DD: - Up to 8 breakout ports of 100G* - Up to 16 breakout ports of 10G/25G/40G/50G*/100G - Up to 32 breakout ports of 10G/25G/50G

### NEW INTELLAVIEW 16-PORT 400G BLADE: ACI-4130-E16

<b>Interfaces (Ports)</b>	16 x QSFP-DD ports capable of supporting up to 400G
<b>Breakout Mode</b>	QSFP-DD: - Up to 32 breakout ports of 100G - Up to 64 breakout ports of 10G/25G/40G/50G/100G - Up to 128 breakout ports of 10G/25G/50G



### INTELLAVIEW 52-PORT 1G/100G BLADE: ACI-4030-E52

<b>Interfaces (Ports)</b>	48 x SFP+ ports capable of supporting 1G/10G/25G 4 x QSFP28 ports capable of supporting 40G/100G
<b>Breakout Mode</b>	QSFP28: - Up to 16 breakout ports of 10G/25G

### INTELLAVIEW 36-PORT 40G/100G BLADE: ACI-4030-E36

<b>Interfaces (Ports)</b>	36 x QSFP28 ports capable of supporting 40G/100G
<b>Breakout Mode</b>	QSFP28: - Up to 144 breakout ports of 10G/25G

## Advanced-Function Blades

The **IntellaView HyperEngine Blade (ACI-4033)** enables real-time packet processing of 100G network traffic. Use it to prevent tool oversubscription while supporting up to 400G throughput via four 100G packet processing service engines that can run concurrently. Aggregate traffic from other blades for processes like Packet Deduplication or Traffic Shaping.

The **IntellaView Optical Bypass Blade (ACI-4034)** can TAP up to six 100G segments. The blade instantly bypasses non-functioning tools, helping IT teams eliminate critical network downtime and improve network security. Custom Heartbeats and heartbeat monitoring help to detect tool failover in milliseconds to highlight the health of security appliances.



### INTELLAVIEW HYPERENGINE BLADE: ACI-4033

<b>Processing Power</b>	Up to four 100G service engines Totals up to 400G of concurrent packet processing
<b>Memory</b>	64GB of DDR4 per service engine

### INTELLAVIEW OPTICAL BYPASS TAP BLADE: ACI-4034




















































































































































































<b>Network Ports</b>	Six pairs of 40G or 100G ports Fixed Multimode (MPO or LC) or Single mode (LC) connectors (model specific)
<b>Appliance Ports</b>	Six pairs of 40G/100G QSFP28 ports Breakout Mode: Supports up to 24 pairs of 10G/25G ports



## Product Overview: IntellaView Blades & EdgeSwitches

The table below shows all IntellaView blade and EdgeSwitch options to compare their specifications, features, and available advanced licenses.

	NEW	NEW	NEW	NEW	NEW	NEW								
	EdgeSwitch 400G	E16-1 Multi-Function Blade	E16-2 Multi-Function Blade	E16-3 Multi-Function Blade	E28-1 Multi-Function Blade	E28-2 Multi-Function Blade	E28-3 Multi-Function Blade	E36-1 Multi-Function Blade	E36-2 Multi-Function Blade	E52 Multi-Function Blade	Optical Bypass Tap Blade 40G	Optical Bypass Tap Blade 10G	HyperEngine Processing Blade	

<b>Hardware Specifications</b>	SFP Ports													48					
	QSFP28 Ports		32					24	24	24	36	36	4						
	QSFP-DD Ports	32		16	16	16	4	4	4										
	Bypass Ports - Pairs													6	6				
	Appliance Ports - Pairs													6	6				
	Processing Cores					2	1		2	1		2						2/4	
	Total Processing Throughput (Gbps)					200	400		200	400		400						MAX 400	
<b>Supported Port Speeds</b>   Supported In Breakout Mode	1G																		
	10G																		
	25G																		
	40G																		
	100G																		
	200G																		
	400G																		
<b>Standard Optimization Features</b>	ACL Filtering																		
	Load Balancing																		
	Port Tagging																		
<b>Advanced Optimization Licensed Features</b>   Requires Separate License	Tunnel Management																		
	Protocol (Header) Stripping																		
	Packet Slicing																		
	Distributed Load Balance Groups																		
	Packet Aware Slicing																		
	Session Aware Slicing																		
	Packet Deduplication																		
	NetFlow Generation																		
	Traffic Shaping																		
	Application Filtering and Intelligence																		
	Application Analytics																		
Pattern Matching																			

## INTELLAVIEW USER INTERFACE

# INTUITIVE WEB-BASED GUI FOR NETWORK VISIBILITY

## IntellaView Basic:

### Single-Switch Management Interface

**IntellaView** is an easy-to-use Graphical User Interface (GUI) that offers IT teams an easy way to set up, control, and manage their IntellaView blades and chassis. All IntellaView products come with the latest firmware and software of the IntellaView GUI.

## IntellaView Advanced:

### Expanded Single-Switch Network Visibility

**IntellaView Advanced** expands upon the capabilities of the IntellaView (GUI) with a wide range of advanced features on a single switch. It includes a customizable dashboard that offers a variety of widgets like: traffic graphs, port statistics, connections, alarm summary, and more. Access to several advanced services is another key advancement. The features listed below can help IT teams to optimize, filter, and gain critical insights into the traffic of interest more effectively.

#### Advanced Services:

- Protocol (Header) Stripping
  - Packet Slicing
  - Packet Aware Slicing
  - Session Aware Slicing
  - Packet Deduplication
  - NetFlow Generation
  - Tunnel Management
  - Traffic Shaping
  - Pattern Matching
  - Application Filtering\*
  - Application Analytics\*
- \* Requires Additional License

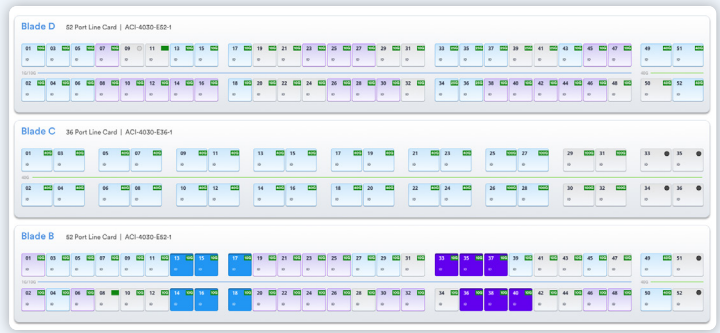
## IntellaView Enterprise:

### New Multi-Switch Management Software

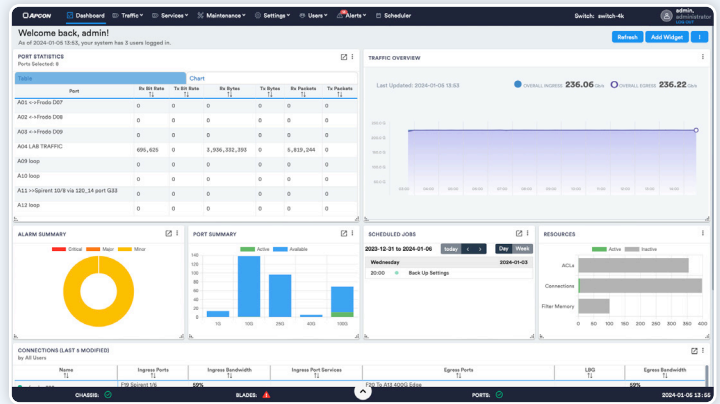
**IntellaView Enterprise** is a new graphical user interface (GUI) that allows centralized visibility and management of network switches. With IntellaView Enterprise, you get full control of up to 200 APCON switches. The GUI includes all the features of IntellaView Advanced, but it also offers an improved user experience.

The **new dashboard** is customizable and dynamic, which means it displays information only for the devices selected in the device selection component. Multiple dashboard widgets give you a high-level overview of important statistics and activities and can be arranged according to your preferences.

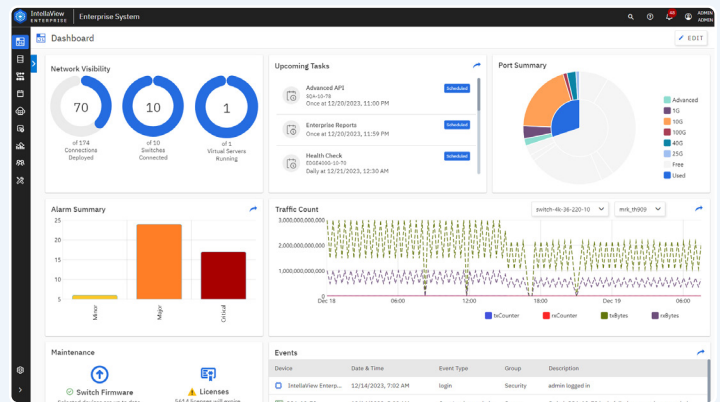
IntellaView Enterprise has also made further enhancements to the **Connections page**, making it easy and efficient to manage trunks and connections. The **Alerts and Statistics pages** provide quick access to recent events on switches, as well as historical data for up to two years. Repetitive and tedious tasks, such as assigning SSL Certificates or uploading keys and licenses, are now fully automated processes.



**Connections Page**  
Flexible configuration of traffic connections of the blades



**Customized Dashboard (IntellaView Advanced)**  
Provides widget options to display single switch information



**Customizable Dashboard (IntellaView Enterprise)**  
Widgets display top-level information for multi-switch network visibility

**Page search** feature is introduced for quicker navigation of the platform and locating specific items on the page.

Last but not least, **IntellaTap-VM** has also received many enhancements. This product provides a magnified visibility of VMware network traffic, by applying virtual traffic capture points in the virtual network. The traffic of interest can be processed on your security tools, enabling them to function at top efficiency. You can compare the capabilities and available features of APCON's three software solutions on the next page.

# COMPARING INTELLAVIEW MANAGEMENT SOFTWARE

Features	IntellaView Basic (Technical Support)	IntellaView Advanced (Technical Support)	IntellaView Enterprise (Annual License)
Maximum Managed Switches	1	1	200
Requires Dedicated Server	No (On Switch)	No (On Switch)	Yes
Synchronized Data Among Switches (Settings, Lists, ACLS, ACL Stacks, Load Balance Groups, and more)	✓ (Manual)	✓ (Manual)	✓ (Full)
Statistics Support (Max History)	✓ (Basic – 12 Hours)	✓ (Advanced – 12 Hours)	✓ (Full – 2 Years)
Centralized User Management	✓ (Limited)	✓ (Limited)	✓ (Full)
Cross-Switch Traffic Management	—	—	✓ (Full)
Schedule Tasks On A Switch	—	✓ (Limited)	✓ (Full)
Consolidated Alerts and Events	✓ (Single)	✓ (Single)	✓ (Full)
Generate Reports	—	—	✓
Monitoring Public and Private Cloud	—	—	✓
Switch Platform Support	✓ (IntellaView Only)	✓ (IntellaView Only)	✓ (IntellaView, XR, and XE)
Support For Mobile App	✓	✓	✓
<b>Advanced Services:</b>			
NetFlow Generation	—	✓	✓ (If Licensed On Switch)
Packet Deduplication	—	✓	✓ (If Licensed On Switch)
Header Stripping	—	✓	✓ (If Licensed On Switch)
Tunnel Management	—	✓	✓ (If Licensed On Switch)
Packet Slicing	—	✓	✓ (If Licensed On Switch)
Packet Aware Slicing	—	✓	✓ (If Licensed On Switch)
Distributed Load Balance Group	—	✓	✓ (If Licensed On Switch)
Pattern Matching	—	✓ (Requires HyperEngine)	✓ (If Licensed On Switch)
Traffic Shaping	—	✓ (Requires HyperEngine)	✓ (If Licensed On Switch)
Session Aware Packet Slicing	—	✓ (Requires HyperEngine)	✓ (If Licensed On Switch)
Application Filtering and Intelligence	—	✓ + (Requires HyperEngine)	✓ (If Licensed On Switch)
Application Analytics	—	✓ + (Requires HyperEngine)	✓ (If Licensed On Switch)

— Not Available

✓ Feature Available

✓+ Requires Additional License

