
COMPLETEVIEW GEN I & GEN II ANALOG CAPTURE HARDWARE GUIDE

COMPLETEVIEW VERSION 4.7.1

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Hardware Overview

Salient Systems CompleteView is a Hybrid capable Video Management Platform, allowing for direct connection of Analog cameras to the Network Video Recorder. CompleteView is licensed by the number of cameras recording to the CompleteView server. When purchasing analog camera licenses, the licenses include the Gen I or Gen II analog capture card hardware saving the cost of an encoder.

In addition, analog licenses can be converted to IP camera licenses saving any future VMS licensing cost when migrating analog cameras to IP.

Prior to CompleteView v4.1 Salient provided the Gen I capture board, also known as the Fusion 4 capture board. The Gen I board came included with the purchase of a 4 channel analog license, and was available as either PCI or PCIe. The Gen I capture board delivered raw video to CompleteView which was compressed using the computers CPU. As such, any type of compression supported by CompleteView could be used to compress the analog video feed however processing resources were tied up in the compression of analog video. Additionally the card came in 4 camera increments so a free PCI or PCI slot was required on the target computer for each 4 camera card.



Beginning with CompleteView v4.1 Salient provides the Gen II capture board. The Gen II board provides up to 32 channels of analog camera support with matching audio channels included. The Gen II board is connected via PCIe and requires a single 1x full height slot. Gen II board are able to compress video at the board level, free CPU resources for other tasks, making Gen II equipped CompleteView server inherently higher performance.



Gen II boards are available with support for 8, 16 or 32 cameras. The specific model of Gen II board provided with purchased CompleteView licenses will be determined by Salient based on the number of analog channels orders. Analog camera channels will continue to be available in 4 camera increments (in most cases, please refer to [Pricing and Ordering](#) for details).

Compatibility and Migration

CompleteView deployments using existing Gen I capture boards are compatible with CompleteView servers using Gen II capture boards. Gen I boards do not need to be replaced, and new systems using Gen II boards can be added to existing deployments. Gen II systems require CompleteView 4.1. CompleteView 4.1 is compatible with both Gen I and Gen II boards, allowing existing systems to be upgraded without replacing hardware.

New system orders of analog cameras will include the Gen II boards by default. Gen I boards are available for replacement, warranty repair and other purposes upon request until the Gen I boards are discontinued.

In some scenarios it may be desirable or necessary to replace existing Gen I boards with a Gen II board. These scenarios include:

1. If replacing a single Gen I board, that board and others could be replaced with a Gen II board.
2. If upgrading the operating system on a CompleteView server to a 64 Bit OS (Gen I boards are not compatible with 64 bit operating systems).

In order to upgrade to Gen I boards to a Gen II board follow these steps

1. CompleteView on the target computer needs to be updated to version 4.1.
2. Order the appropriate replacement Gen II board. Order either Gen II 8 BRD RPL for the 8 channel Gen II board if replacing one or two Gen I cards, or Gen II 16 BRD RPL for the 16 channel Gen II board if replacing 3 or 4 Gen I cards.
3. Once the new board is received, install it in the target CompleteView server. Contact Salient Support to have the Gen II board licensed for the appropriate number of channels. In order to trade the licenses from the Gen I boards to the new Gen II board, the old Gen I boards will need to be sent back to Salient. Salient Support will issue an RMA to track the return of the Gen I boards. There is no cost for this license trade, however a purchase order will be generated for the number of licenses traded, and will be billed 30 days after the license are issued to activate the Gen II board. If the Gen I boards are received back under the RMA issued the PO will be canceled.

Gen II Pricing and Ordering

Gen II boards are included with the purchase of CompleteView analog camera licenses. Gen II boards come in 8, 16 and 32 camera versions. CompleteView analog licensing is available in (most cases) 4 camera increments.

If the number of CompleteView analog licenses ordered does not match 8, 16 or 32 cameras the board with the next higher number of channels will be provided with the licenses. The extra analog connectors on the board will be inactive unless they are later licensed.

CompleteView Pro and Enterprise analog licensing allows for a minimum of 4 analog cameras. CompleteView ONE requires the minimum number of analog channels purchased to be 8. Following the first 8 analog channels, additional analog channels can be ordered in groups of 4. The following charts summarize the available license packages and the capture board hardware included.

CompleteView ONE				
Part Number	New Part #	Gen II Board Type	Active Channels	Inactive Channels
CVSW-ONE-8A	COA08	Gen II 8 channel	8 active channels	0 inactive channels
CVSW-ONE-12A	COA12	Gen II 16 channel	12 active channels	4 inactive channels
CVSW-ONE-16A	COA16	Gen II 16 channel	16 active channels	0 inactive channels
CVSW-ONE-20A	COA20	Gen II 32 channel	20 active channels	12 inactive channels
CVSW-ONE-24A	COA24	Gen II 32 channel	24 active channels	8 inactive channels
CVSW-ONE-28A	COA28	Gen II 32 channel	28 active channels	4 inactive channels
CVSW-ONE-32A	COA32	Gen II 32 channel	32 active channels	0 inactive channels

CompleteView Pro				
Part Number	New Part #	Gen II Board Type	Active Channels	Inactive Channels
CVSW-PRO-4A	CPA04	Gen II 8 channel	4 active channels	4 inactive channels
CVSW-PRO-8A	CPA08	Gen II 8 channel	8 active channels	0 inactive channels
CVSW-PRO-12A	CPA12	Gen II 16 channel	12 active channels	4 inactive channels
CVSW-PRO-16A	CPA16	Gen II 16 channel	16 active channels	0 inactive channels
CVSW-PRO-20A	CPA20	Gen II 32 channel	20 active channels	12 inactive channels
CVSW-PRO-24A	CPA24	Gen II 32 channel	24 active channels	8 inactive channels
CVSW-PRO-28A	CPA28	Gen II 32 channel	28 active channels	4 inactive channels
CVSW-PRO-32A	CPA32	Gen II 32 channel	32 active channels	0 inactive channels
CVSW-PRO-36A	CPA36	Gen II one 32 plus one 8 channel boards	36 active channels	4 inactive channels
CVSW-PRO-40A	CPA40	Gen II one 32 plus one 8 channel boards	40 active channels	0 inactive channels
CVSW-PRO-44A	CPA44	Gen II one 32 plus one 16 channel boards	44 active channels	4 inactive channels

CVSW-PRO-48A	CPA48	Gen II one 32 plus one 16 channel boards	48 active channels	0 inactive channels
CVSW-PRO-52A	CPA52	Gen II two 32 channel boards	52 active channels	12 inactive channels
CVSW-PRO-56A	CPA56	Gen II two 32 channel boards	56 active channels	8 inactive channels
CVSW-PRO-60A	CPA60	Gen II two 32 channel boards	60 active channels	4 inactive channels
CVSW-PRO-64A	CPA64	Gen II two 32 channel boards	64 active channels	0 inactive channels

CompleteView Enterprise				
Part Number	New Part #	Gen II Board Type	Active Channels	Inactive Channels
CVSW-ENT-4A	CEA04	Gen II 8 channel	4 active channels	4 inactive channels
CVSW-ENT-8A	CEA08	Gen II 8 channel	8 active channels	0 inactive channels
CVSW-ENT-12A	CEA12	Gen II 16 channel	12 active channels	4 inactive channels
CVSW-ENT-16A	CEA16	Gen II 16 channel	16 active channels	0 inactive channels
CVSW-ENT-20A	CEA20	Gen II 32 channel	20 active channels	12 inactive channels
CVSW-ENT-24A	CEA24	Gen II 32 channel	24 active channels	8 inactive channels
CVSW-ENT-28A	CEA28	Gen II 32 channel	28 active channels	4 inactive channels
CVSW-ENT-32A	CEA32	Gen II 32 channel	32 active channels	0 inactive channels
CVSW-ENT-36A	CEA36	Gen II one 32 plus one 8 channel boards	36 active channels	4 inactive channels
CVSW-ENT-40A	CEA40	Gen II one 32 plus one 8 channel boards	40 active channels	0 inactive channels
CVSW-ENT-44A	CEA44	Gen II one 32 plus one 16 channel boards	44 active channels	4 inactive channels
CVSW-ENT-48A	CEA48	Gen II one 32 plus one 16 channel boards	48 active channels	0 inactive channels
CVSW-ENT-52A	CEA52	Gen II two 32 channel boards	52 active channels	12 inactive channels
CVSW-ENT-56A	CEA56	Gen II two 32 channel boards	56 active channels	8 inactive channels
CVSW-ENT-60A	CEA60	Gen II two 32 channel boards	60 active channels	4 inactive channels
CVSW-ENT-64A	CEA64	Gen II two 32 channel boards	64 active channels	0 inactive channels

Transitioning to IP with Gen II

Using both Gen I and Gen II capture boards, CompleteView users can move their CompleteView licenses from analog cameras to IP cameras without purchasing additional licenses.

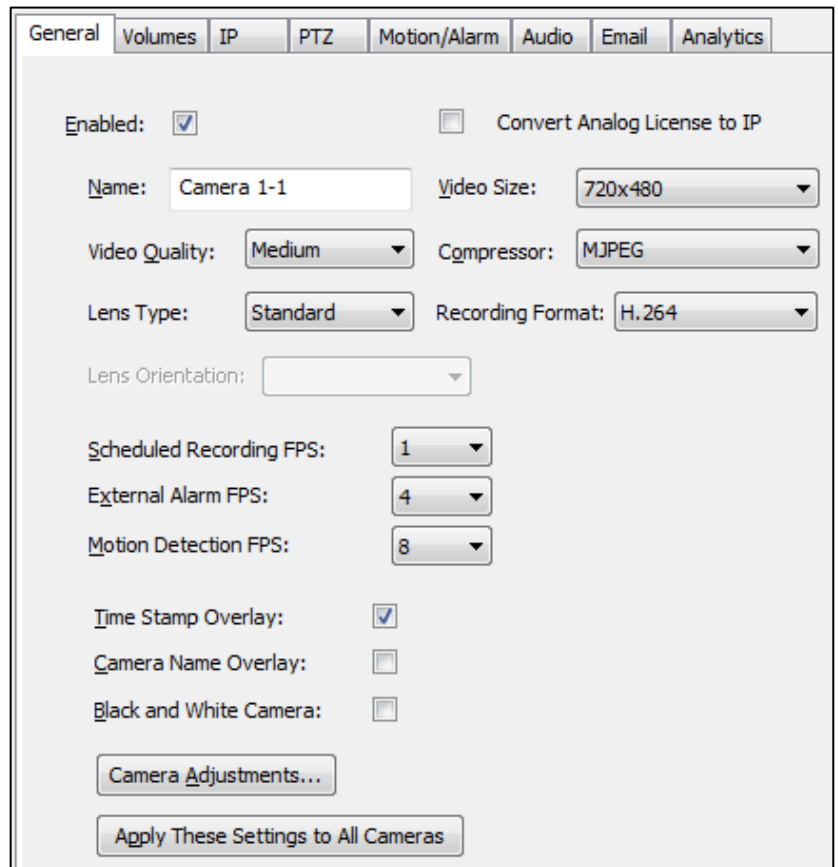
The process of receiving new IP camera licenses using a Gen I capture board requires the board be sent to Salient in exchange for the equivalent number of IP camera licenses.

Using Gen II boards, a software setting allows the CompleteView administrator to toggle the gen II analog camera license to an IP camera license without sending the card back to Salient. Analog licenses can be transitioned to IP one-at-a-time using the Gen II boards allowing for a smoother transition.

To transition from Analog to IP using a Gen II board, open CompleteView Server Configuration.

1. Select the camera to be converted.
2. On the General Tab of the camera's configuration, check the box labeled Convert Analog License to IP.

The corresponding analog camera port on the Gen II board will be deactivated. The IP configuration tab for the camera will be enabled allow the camera license to be configured as an IP camera immediately.



Adding Cameras and Replacing Boards

It is possible to add additional analog cameras to a Gen II based CompleteView deployment. The process required depends on whether there are inactive ports on an already deployed Gen II card.

No board swap out is required

If the existing Gen II board has enough unlicensed channels available, simply order the correct number of analog licenses and note on the purchase order that the licenses are for an existing deployment and do not require a capture board.

The Gen II board needs to be traded

Salient Systems will advance replace the existing board with a new board that contains the correct number of inputs.

Order the analog channels along with the correct board exchange part number. Board exchanges are available for exchanging the 8 channel card to the 16 or 32 channel card as well as from the 16 to the 32 channel card. The follow chart summarizes the exchange scenarios and the correct exchange part number.

Gen II Board Exchange			
Currently Deployed Card	Channels to Add	Board Replacement Required	Part Number
Gen II 8 Channel – 4 Channels Active	4	No	NA
Gen II 8 Channel – 4 Channels Active	8 or 12	Yes	GENII-8-TO-16
Gen II 8 Channel – 8 Channels Active	4 or 8	Yes	GENII-8-TO-16
Gen II 8 Channel – 8 Channels Active	12 or more	Yes	GENII-8-TO-32
Gen II 16 Channel – 12 Channels Active	4	No	NA
Gen II 16 Channel – 12 Channels Active	8 or more	Yes	GENII-16-TO-32
Gen II 16 Channel – 16 Channels Active	4 or more	Yes	GENII-16-TO-32

Additional Resources

Visit the Salient website, www.salientsys.com, for additional support and CompleteView training:

- **Manuals & Documentation** (<http://www.salientsys.com/support/manuals-and-documentation/>) – Includes Administrator’s Manual, Client User Manuals (including Video, Alarm and Web clients), How To Guides and Tips.
- **Online Tech Support** (<http://www.salientsys.com/support/>) – Get quick access to online tech support modules that cover the most frequently asked product questions, such as “Adding and Moving IP Camera Licenses.”
- **Training** <http://www.salientsys.com/support/training/> – we offer both online and classroom training.
 - CompleteView™ Online Certification - Register online for access to interactive training modules covering the Video, Alarm, Mapping and Web clients
 - CompleteView™ Classroom Certification - Our traditional classroom training is available throughout the United States. Please visit the Salient website for link to online training, training calendar, agenda and registration

Salient Systems

4616 W. Howard Ln.
Building 1, Suite 100
Austin, TX 78728
512.617.4800
512.617.4801 Fax
www.salientsys.com



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