

Milestone

Milestone Systems Certified Solution

INTRODUCTION

This report highlights the performance results of certification tests performed on latest Seneca NVR solutions. We utilize our advanced engineering service (AES) facility with servers, storage, cameras and simulator units to reference real life usage models for video surveillance. The Arrow engineers perform testing with Milestone xProtect software to create validated hardware platforms and determine sustained recording results for specific servers. Arrow adheres to strict testing protocols as outlined by Milestone and implements worst case scenarios that ensure proper hardware configurations are recommended for installation. Arrow's goal is to perform a series of steps related to the standard testing that adds value to our system performance and recommendations outlined within our product calculation tool.

CERTIFIED PRODUCTS AND SCOPE

Arrow tested Network Video Recording platforms including the single Xeon Assurance and Dual Xeon Certainty products. Testing was performed on the Recording Server running Milestone 2017 R2 Corporate, with Server 2012R2 to provide validated performance metrics to recommend hardware systems that will meet project requirements. The Management Server functions were installed on a separate system for specific scenarios. Multiple NICs were used to accommodate the higher bit rates without going to a 10G infrastructure. The testing was established by adding cameras on the server until one of the hardware components utilized no more than 75-80% while measuring performance or the VMS system reported 'overflows' into the storage system.



FEBRUARY 2, 2018

ABOUT THE SOLUTION:

Seneca solutions are rigorously tested using their advanced engineering service facility to simulate real-life video surveillance use cases and validate the configuration and design of customer solutions. Milestone has partnered with Seneca for years, to test and certify the entire XNVR line of solutions with the XProtect VMS.

Reliance, Assurance and Certainty models have all been tested with XProtect.



Seneca Milestone Testing Validation

Testing Validation | February 2, 2018

TEST SCENARIO

Assurance and Certainty with the Recording Server instance(s) installed, 4 × 1.2TB RAID10 10K RPM live drives, 8× SATA drives RAID5 with 2 volumes of 10TB, Server-Side motion detection enabled, Motion Recording active and archiving (ON and OFF). The server was tested with 1 instance of the Milestone Recording Server installed along with the Management Server with single 1GbE NIC. Archiving every two hours when ON.

KEY FINDINGS

The Seneca Assurance and Certainty models are certified hardware solutions for use with Milestone xProtect. Both of the models easily supported the Milestone benchmark standards and in many cases outperformed those standards. Integrators should have the confidence that these systems are certified and can be used to support Milestone VMS solutions. The performance metrics listed below include self-certified results tested in the Arrow facility. The results table outlines system recording rates, camera count and retention days with various resolutions.

SENECA SERVERS	CONFIDENCE	RELIANCE	ASSURANCE	ASSURANCE with Live Drives	ASSURANCE with LD & Exp	CERTAINTY	CERTAINTY with Live Drives	CERTAINTY with LD & Exp
Recording Rate (Mbps)	100	300	400	550	550	500	750	750
Max Recording Capacity (TB)	14.9	22	81	52	379	102	52	379
RAID		●	●	●	●	●	●	●
MAX CAMERAS BY RESOLUTION								
1080P/10FPS	42	127	169	232	232	211	316	316
1080P/30FPS	19	56	74	102	102	93	139	139
4K/10FPS	10	31	41	57	57	52	77	77
RETENTION DAYS BY CAMERA COUNT								
8 Cameras @ 1080P/10FPS	78	115	422	271	1974	531	271	1974
16 Cameras @ 1080P/10FPS	39	57	211	135	987	266	135	987
32 Cameras @ 1080P/10FPS	19	29	105	68	493	133	68	493
64 Cameras @ 1080P/10FPS	N/A	14	53	34	247	66	34	247
128 Cameras @ 1080P/10FPS	N/A	N/A	26	17	123	33	17	123
256 Cameras @ 1080P/10FPS	N/A	N/A	N/A	N/A	N/A	N/A	8	62

SENECA ALTERNATIVES TO MILESTONE HUSKY

M20 Alternative 100Mbps average throughput

SENECA CONFIDENCE

PART NUMBER:	DESCRIPTION:	MSRP
CFD-4T-W10	Confidence DT 4TB, 3.7TB useable, Win 10	\$3,125
CFD-8T-W10	Confidence DT 8TB, 7.5TB useable, Win 10	\$3,630
CFD-16T-W10	Confidence DT 16TB, 14.9TB useable, Win 10	\$4,530

M50 Alternative 300Mbps average throughput, 550Mbps with live storage drives

SENECA ASSURANCE

PART NUMBER:	DESCRIPTION:	MSRP
ASC-16T-W10	Assurance 2RU 16TB, 13TB R5, Win 10	\$9,810
ASC-32T-W10	Assurance 2RU 32TB, 26TB R5, Win 10	\$11,735
ASC-48T-W10	Assurance 2RU 48TB, 41TB R5, Win 10	\$12,630
ASC-64T-W10	Assurance 2RU 64TB, 52TB R5, Win 10	\$13,425
ASC-96T-W10	Assurance 2RU 96TB, 82TB R5, Win 10	\$16,565