



Pro-Watch® Eco-System Compatibility Matrix and System Dependencies

Key:	Under construction, upcoming build, or not tested (Blank Cell)	The feature, system, or application is NOT supported	The feature, system, or application is supported (EXCEPT for 3.0 and 3.7)
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	Pro-Watch R3.8 Build 3.81.0.8559/8731			Pro-Watch R4.0 Build 4.00.0.9096			Pro-Watch R4.1 Build 4.1.0.9513 SP1			Pro-Watch R4.1 Build 4.1.0.9584 SP2			Pro-Watch R4.2 Build 4.2.0.10152/10399			Pro-Watch R4.2 Build 4.2.1.10529 SP1			Pro-Watch R4.2 Build 4.2.1.10765 SP2			Pro-Watch R4.2 Build 4.2.1.10833 SP3			Pro-Watch R4.2 Build 4.2.1.10929 SP4			Comments
	LE	PE	EE*	LE	PE	EE*	LE	PE	EE*	LE	PE	EE*	LE	PE	EE*	LE	PE	EE*	LE	PE	EE*	LE	PE	EE*	LE	PE	EE*	
Visitor Management																												
LibertyWorks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Pro-Watch VMS / MaxPro VMS																												
R200																												
R200 MaxPro G1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
R200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
R200 SP1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
R200 SP2 R215	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MAXPRO VMS R310	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DVM																												
R200.1, R200.2				△	△			△	△			△	△			△	△			△	△			△	△			DVM R200 must be on an instance of SQL 2000. For newer releases of DVM (R300 and later), you must use Pro-Watch VMS / MaxPro VMS.
Legacy Direct Video Connectivity																												
Version 1.0.2.2 (installer 1.0.2.3) Beta	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Burke CCTV Interface™ Allegiant Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Planet CCTV Interface™ CMB760	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Integral Technologies Digital Video Interface DVXL D5Express	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Vicon Kolektor EliteXG DVR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Server Version: Viconnet KE120 V3.0; Client API Version: V3.0
Heco DVX100 DVR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Fusion 3.7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Recommended for analogue cameras only.
Fusion 4 (works only via MAXPRO VMS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Will require Pro-Watch VMS / MaxPro VMS.
Rapid Eye RP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SmartPlus Commercial Interface (SPC)																												
Version 2.0.12.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Version 2.0.12.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Version 2.0.13.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SPMobile Interface																												
Version 1.0.2.2 (installer 1.0.2.3) Beta	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Version 1.0.3.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	PDA Nomad 900L & Dolphin 9700 are compatible with this version.
PW HSEK and APP Modules																												
HSEK																												
Vindicator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SAM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Notifier with BACHet Adapter (Nagara Interfaces)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Alerton HVAC Adapter (Nagara Interfaces)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
PW Compliance Reporting																												
Version 2.1.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Incorporated into the standard Pro-Watch release
Version 2.1.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	32-bit only at present.
Version 2.3.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Version 2.4.8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Advanced Badging / FWAP																												
Advanced Badging - Version 1.14.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Incorporated into the standard Pro-Watch release
Version 1.14.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Advanced Badging AP- Version 1.15.17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Real-time DTU																												
Real-time DTU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	32-bit only at present.
Clean Room Application																												
Custom (no version number)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Lenel Family Hardware																												
LNL-1000 with Wiegand Reader	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	I/O boards include: MRS2, MRS0, MR16IN, MR16OUT
LNL-1100 (16 Input Board)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
LNL-1200 (16 Output Board)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
LNL-1300 (Single Reader Board)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
LNL-1300 (2 Reader Board)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
LNL-2000 with Wiegand Reader	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	I/O boards include: MRS2, MRS0, MR16IN, MR16OUT
LNL-2210	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
LNL-2220	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	Not supported.
LNL-3300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
LNL-8000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Northern Hardware																												
PRO2000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
N1000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Chip upgrade to PW3000. Chip upgrade to PW2000. PW1-2000 Series Firmware Rev 8.04 or greater required. Note: N1000 requires special configurations for keypad readers. Standard Wiegand wired keypad readers not supported.
Mercury Family Hardware																												
EP-1501	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
EP-2500 with SALT0 SALLIS RS485 Wireless Reader	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
EP-2500 with ASSA ABL0Y Apero Wireless Reader	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
EP-2500 with Wiegand Reader	✓																											

Permission Requirements

Product	Task	Application	Requirements	Comments
Pro-Watch	Installation	Clients, App Server, Comm Server	IIS You need Windows local admin rights to install the executables for all editions and config types (client, server, etc). Windows Local admins usually has sysadmin rights to SQL databases. If not, the installer login needs sysadmin in the sql server and database.	Required for Web Client For simple installations (PWLT, PWPE), local admins takes care of everything. Note: If the installer and service accounts are locked down and cannot be used interactively by techs, many big sites have a "firewall" account which is local admins.
	Operation	Application Server / Comm Server	Service account needs local admin. The three services we care about are PW Service (MICSERVER.exe), SQL Server service and SQL Agent service. Options: 1. Run everything under the installation account like user PWCE 2. Make a separate service account example PW_Service and assigned ProWatch service, SQL service, and SQL Agent to it. 3. Make a separate service account for each of PW and SQL Server. Requires: * There is one pre-defined database role called PWNT_User which maps all tables,views,SPs,etc in the database PWNT with all rights. Other roles could be constructed but usually are not because it tends to be very complicated. Exceptions are customizations for individual customers. The only other db roles which usually apply are public and db_owner. * Public access to the master database	Note: PWEE requires service accounts to be domain-based to configure the Enterprise.

		Clients	<p>User groups need PW_User role but can be ordinary users. User Groups need certain local security policies set: "load unload device drivers", "Act as part of the O/S", .. If not this last - Shadow login doesnt work.</p> <p>Requires: * There is one pre-defined database role called PWNT_User which maps all tables,views,SPs,etc in the database PWNT with all rights. Other roles could be constructed but usually are not because it tends to be very complicated. Exceptions are customizations for individual customers. The only other db roles which usually apply are public and db_owner. * Public access to the master database</p>	At least one of the ProWatch users needs local admins to use certain functions like changing badge fields. If this is not permitted, the firecall account must be used or a sysadmin has to be involved to change badge fields.
LobbyWorks 4.0	Installation	Database		
		All clients	Administrative privileges to local machine.	
		IIS		
	Operation	Front Desk	Operator must have "user rights" + read/write access to the installed path \bin folder (default: C:\Program Files\HONEYWELL\LobbyWorks\Bin) on the local machine. If using Windows Authentication to the SQL database, the operator needs read/write access to the LobbyWorks database. If using SQL authentication to the SQL database, a common SQL account needs read/write access to the LobbyWorks database. Also requires either execute permissions for stored procedures in the SQL database or execute permissions to run all the LobbyWorks stored procedures.	User may use Windows Authentication or a local LobbyWorks account for authentication. The database logon can be either Windows integrated security or Explicit Logon.
		Notify		
		Administrator		
		Scheduler		
Badge Pre-Print				
Reporter				
Kiosk		Workstation may use Windows or a local LobbyWorks account for authentication. Employee/host logging in at kiosk for special functions must use LDAP or LobbyWorks context.		
Web Center	For SQL authentication to the SQL database, a common SQL account needs read/write access to the LobbyWorks database. Also requires either execute permissions for stored procedures in the SQL database or execute permissions to run all the LobbyWorks stored procedures.	User may use LDAP or a local LobbyWorks account for authentication.		

SmartPlus	Installation	SPMI	<ol style="list-style-type: none"> 1. Administrator privileges to machine installing SmartPlus (current system) 2. Administrator privileges to machine where Pro-Watch is installed 3. Administrator privileges on the database server where Pro-Watch database is installed 4. Administrator privileges on the database server where Mobile Interface database is to be installed 5. To set a user as an anonymous user in the Mobile Interface web service, you must have an existing user credentials. 	The logged in user must be a power user or an administrator.
		SPCI	<ol style="list-style-type: none"> 1. Administrator privileges to machine installing SmartPlus (current system) 2. Ensure that you have administrator privileges for the computer in which the Pro-Watch database is installed 3. Ensure that you have administrator privileges for the computer in which the SmartPlus® database is installed 	<ol style="list-style-type: none"> 1. The logged in user must be a power user or an administrator. 2. The same user credentials are used as log-on credentials for the SmartPlus Windows Service

Port Requirements

Product	Component	Port	Protocol (TCP, UDP, HTTP, etc.)	Standard/Custom	Changeable (Y/N)	Use	Notes
Pro-Watch	Application Server Machine	139	TCP	Custom	No	Named Pipes	** If integrated with Pro-Watch VMS, also include VMS Client's MMShell.exe port requirements below
		445	TCP	Custom	No	Badge Data	
		1433	TCP	Standard	No	Communications with SQL	Set per SQL instance
		3001	TCP	Custom	No	Communications with PW3K/5K/6K panels	
		10001	TCP	Custom	Yes	Galaxy basic port; SEEP/CHIP Micro Cobox default ports	
		10002	TCP	Custom	Yes	Galaxy remote control port	
		10005	TCP	Custom	Yes	Galaxy alarm port	
		25	TCP	Standard	No	SMTP for emails on events or from PW Advanced/AP Badging and Compliance Reports	
		20007	TCP	Custom		VMS MMShell.exe Server Connection	Required for VMS integration
		20009	TCP	Custom		VMS MMShell.exe Rendering Connection	Required for VMS integration
		26026	TCP	Custom		VMS MMShell.exe Controller	Required for VMS integration
		53	TCP	Standard		VMS MMShell.exe DNS Server	Required for VMS integration
		Database Server	1433	TCP	Standard	No	Communications with SQL
	Pro-Watch API (REST)	8734	HTTP, HTTPS	Custom	Yes	Configurable through .config file	Any of the mentioned protocols can be used.
	Pro-Watch API (SOAP)	8732	HTTP, HTTPS	Custom	Yes	Configurable through .config file	Any of the mentioned protocols can be used.
	Client Machine	139	TCP	Custom	No	Named Pipes	
		445	TCP	Custom	No	Badge Data	
		1433	TCP	Standard	No	Communications with SQL	Set per SQL instance
		3001	TCP	Custom	No	Communications with PW3K/5K/6K panels	
		10001	TCP	Custom	Yes	Galaxy basic port; SEEP/CHIP Micro Cobox default ports	
		10002	TCP	Custom	Yes	Galaxy remote control port	
		10005	TCP	Custom	Yes	Galaxy alarm port	
		25	TCP	Standard	No	SMTP for emails on events or from PW Advanced/AP Badging and Compliance Reports	
IIS Server	80	TCP					
IIS Server	443	TCP					
IIS Server	80	TCP	Standard	No	Web Client	For HTTP	
IIS Server	443	TCP	Standard	No	Web Client	For HTTPS	
LobbyWorks 4.0	Database Server	1433	TCP	Standard	No	Communications with SQL	Set per SQL instance
	IIS Server	80	TCP	Standard	No	Web Center; LW Adapter	WebCenter will work only using the url http://servername/lobbyworks
	Front Desk	2003	TCP	Custom	Yes	Send visitor network notification to host	
	Notify	2001	TCP	Custom	Yes	Send visitor network notification to host	
	Kiosk	2002	TCP	Custom	Yes	Recieve visitor network notification	
	SMTP (Front Desk, Kiosk and Scheduler)	25	TCP	Standard	Yes	Send mails from LobbyWorks application	
	SPCI Publisher (Front Desk, Administrator, Scheduler and Kiosk)	8104	TCP	Standard	Yes	Integration with SPCI for Pro-Watch-LW4 integration	
	SPMI						
SmartPlus	SPMI Web Service	80	TCP	Standard	Yes	This is Web Site TCP port in IIS, configurable	
	Database Server	1433	TCP	Standard	No	Communications with SQL (PW and SPMI databases)	Set per SQL instance
	SPCI						
	Database Server	1433	TCP	Standard	No	Communications with SQL (PW and SPCI databases)	Set per SQL instance

	Communication between SP service and web config UI	5555	TCP		Yes	Configurable in UI; SPCI to PW for diagnostics
	IDMS driver	8102	TCP		Yes	Configurable in UI
	LobbyWorks driver	8104	TCP		Yes	Configurable in UI
	Web config UI	80	TCP	Standard	Yes	This is Web Site SSL port in IIS, configurable
	Web config UI - SSL	443	TCP		Yes	This is Web Site SSL port in IIS, configurable
Pro-Watch VMS / MaxPro VMS	VMS Server					
	<i>Trinity.SystemServices.exe</i>					
	Server Operations	20007	TCP	Custom		
	Controller	26026	TCP	Custom		
	DNS Server	53	TCP	Custom		
	<i>Trinity.Controller.exe</i>					
	Controller Operations	26026	TCP	Custom		
	<i>Scheduler</i>					
	Scheduler Operations	20010	TCP	Custom		
	VMS Client					
	<i>MMShell.exe</i>					
	Server Connection	20007	TCP	Custom		
	Rendering Connection	20009	TCP	Custom		
	Controller	26026	TCP	Custom		
	DNS Server	53	TCP	Standard		
	<i>Trinity.RenderingServer.exe</i>					
	Client Connection	20007	TCP	Custom		
	DNS Server	53	TCP	Standard		
	VMS IP Engine (e.g. DVM)					
	DCOM	135	TCP	Standard		
	File and printer sharing	137, 138, 139, 445	TCP	Standard		
	DNS Server	53	TCP	Standard		
	Client and server communication	80	TCP	Standard		
	Other recorders					
	Fusion	4000	TCP	Custom		
	Intellex	5001, 5003	TCP	Custom		
	RapidEye	10000	TCP	Custom		
Enterprise	2377, 2367, 2703, 1056	TCP	Custom			
Pelco	9002	TCP	Custom			
HRXD	8016	TCP	Custom			
	10019	TCP	Custom			