DEPARTMENT OF THE AIR FORCE
AIR FORCE LIFE CYCLE MANAGEMENT CENTER
HANSCOM AIR FORCE BASE, MASSACHUSETTS

23 March 2026

MEMORANDUM FOR DISTRIBUTION

FROM: AFLCMC/ESS
3 Eglin St, Bldg. 1612
Hanscom AFB MA 01731

SUBJECT: Non-Nuclear Configuration Management Database (CMD) Equipment Approval

1. Attached are the current CMD equipment lists approved for use when employed in the tested PL-1 (non nuclear) through PL-4 applications and configurations. Information on the tested configuration can be obtained from Force Protection Systems Division (AFLCMC/ESS) upon request.

2. Attachment 1 identifies equipment approved for new procurements and installs, or for upgrading existing equipment to the latest configuration. Attachment 2 identifies previously-approved equipment that is still approved for use and sustainment in existing installs; however, the equipment in Attachment 2 is not approved for new procurements or new installs, even if the item is still available from the Original Equipment Manufacturer. It is recommended systems get updated to the most current software and firmware versions identified in Attachment 1 as soon as practical, subject to available funding.

Yellow highlight indicates correction, change, and/or addition.

3. All equipment was determined to meet applicable National Defense Authorization Act (NDAA) and Buy American Act (BAA) or Trade Agreements Act (TAA) requirements at the time of approval. Manufacturers could change place of origin over time. Installation agents should verify place of origin of all components prior to installation. Items on the CMD are not tested to Intelligence Community Directive/Intelligence Community Standard (ICD/ICS) 705 standards.

4. A listing of equipment approved for use in PL-1 Nuclear applications is available in a separate letter maintained by the Point of Contact (POC) listed below.

5. For additional inquiries, the POC for this effort is Capt Gabriel Otley, Force Protection Systems Modernization Branch (AFLCMC/ESSM), gabriel.otley.1@us.af.mil

FENNELLY.DANIELLE.B.1007982328 Digitally signed by FENNELLY.DANIELLE.B.1007982328 Date: 2026.04.15 15:04:55 -04'00'

DANIELLE B. FENNELLY, NH-04, DAF
Senior Materiel Leader, Force Protection Systems Division

Controlled by: AFLCMC/ESSM
CUI Category: DoW Critical Infrastructure Security Information
Dissemination Controls: FEDCON
POC: Capt Gabriel Otley, gabriel.otley.1@us.af.mil

2 Attachments:
1. CMD (Non-Nuclear) Equipment List – Approved for New Procurements, Installs, and Upgrades, 23 Mar 2026
2. CMD (Non-Nuclear) ('Non-Procurable') Equipment List – Approved for Continued Use and Sustainment in Existing Installs, 23 Mar 2026

DISTRIBUTION:
AFDW/A4S
HQ USAFE/A4S
HQ AFMC/A4S
HQ PACAF/A4S
HQ AETC/A4S
HQ AFSFC/S5G
HQ USSF/A4S
HQ AFSOC/A4S
HQ AFRC/A4S
HQ AMC/A4S
HQ ACC/A4S
HQ AFGSC/A3S
NGB/A4S
HQ USAFA/SF
HQ USAF/A4SX
HQ USAF/A4SO
HQ USSF/A4S
HQ AFLCMC/HNC (CCSD)

Attachment 1

CMD (Non-Nuclear) Equipment List, 23 Mar 2026

Approved for New Procurements, Installs and Upgrades

COMMAND, CONTROL AND DISPLAY EQUIPMENT (CCDE)
(Integrated Intrusion Detection (IDS) and Access Control (ACS))

Prometheus Security Group (PSG) Global

- LINX Predator Elite (LPE) Annunciator Version 8.1 (Windows 10)
  - LINX SNMP version p90100.2.58
  - LINX Predator Enrollment System Version 4.1.220
  - LINX Predator Badging Enrollment Application Version 8.1.2100P
  - LINX Versatile Interface Panel (VIP) Version 8.116
  - LINX Versatile Interface Panel (VIP-16i) Version 1.09
  - WSD-E Card Reader version 3.1110
  - LINX Touch Zone Controller (PSG ordering code: 15-20000-001 for controller itself, 15-20000-007 for install kit)
  - iDentyTech IDT Jade Biometric Physical Access Control:
    - IDT Jade Palm Scanner Model 100120135-PRO, v15.06.000-112 (PSG ordering code: 15-18010-000)
    - IDT Jade Palm Enrollment Scanner (USB) Model 100230910-PRO, v15.06.000-112 (PSG ordering code: 15-18010-001)
    - IDT Jade Palm Scanner Reader Installation Kit (PSG ordering code: 15-18010-002)
    - HID SE RPK40
    - HID Proximity ProxPro card reader

LenelS2

- OnGuard Version 8.1 module on (**must** be used with Milestone XProtect 22.2av to provide the required graphic/mapping display)
  - Tested with Seneca/Dell R540 Server and Seneca/Dell R330 Server
  - Windows 10 Enterprise 20H2 (OnGuard and Milestone Client)
  - Windows Server 2019 Standard (OnGuard and Milestone Servers)
  - SQL Server 2019 Standard
  - Zebra ZXP Series 7 Card Printer
  - Videology 24C708AF Photo ID Camera
  - Morpho MSO-300 Fingerprint Enrollment Reader
  - HID Omnikey 5422 Personal Identity Verifier (PIV) / Common Access Card (CAC) Enrollment Reader
  - HID Omnikey 3121 PIV/CAC Enrollment Reader
  - RFIDeas HID iCLASS Enrollment Reader
  - Intelligent System Controllers:
    - LenelS2 LNL-X4420 v1.303
    - LenelS2 LNL-X2220 v1.303
    - LenelS2 LNL-X2210 v1.303
  - Reader and Input Modules:
    - LenelS2 LNL-1320-S3 Reader Module (tested with LNL-X4420 & using RS-485) v3.21.12

    - LenelS2 LNL-1200-S3 Alarm Module (tested with LNL-X2220 using RS-485) v3.21.12
    - LenelS2 LNL-1100-S3 Alarm Modules (tested with its respective LNL-X2210 using RS-485) v3.21.12
  - Card and Biometric Readers:
    - HID pivCLASS RK40 Card Reader
    - HID pivCLASS RKCL40 Card Reader
    - Morpho Sigma LitePlus Biometric and Card Reader
    - Veridt Stealth 900W2026 proximity (Prox) (RFID) Card Reader
    - Veridt Stealth 900W2036 tested with the LNL-X2220 Prox (RFID) and chip card reader
    - LNL-CK arm/disarm reader, tested with the LNL-X2220
    - Morpho Access Sigma SMA-293645512 Biometric (fingerprint) and Card Reader

Honeywell Vindicator

- Vindicator Command and Control Platform Version 10 (tested with VICADS 4.3.5 and V100)
  - Vindicator 10 Annunciator Workstation (Win 10 LTSC):
    - Windows 10 LTSC version 21H2 (OS Build 19044)
  - Vindicator Security Server (VSS)
    - Windows Server 2019 version 1809 (OS Build 17763.4377)
  - Windows Structured Query Language (SQL) Database Management VSS
    - SQL Server 2019 version 1809 (OS Build 17763.4377)
  - Vindicator System Terminal
    - Windows 10 LTSC version 21H2 (OS Build 19044)
  - Vindicator Command and Control 2 (VCC2) 1.3.0.2 SP4
  - V3 Network Security (IDS & ACS) Firmware 4.3.2 SP VR22
  - V5 Network Security (IDS & ACS) Firmware 4.5.2 SP VR22
  - AES-1500 Network Field Device Firmware 4.3.2 SP VR22
  - Security Archive Workstation 2 (SAW2) 1.4.3.0 SP6
  - Vindicator Badge Manager 3 2.0.27.0 SP4
  - Vindicator Site Commander with or without SAW2 1.3.0.7 SP2
  - Vindicator Area Commander 1.1.0.7
  - Vindicator Premise Controller 4.3.2 VR22
  - Vindicator PC Smart Pak (PCSP) 6.0.0.1

Note: No new orders of the V5 panel (V5 IDS & ACS hardware) are being taken by the OEM as production is discontinued.

VIDEO MANAGEMENT SYSTEMS (VMS)

Milestone

- Milestone XProtect 22.2av tested with LenelS2 OnGuard v8.1

- XProtect Server 2022 R2 (22.2av), XProtect Smart Client 2022 R2 (22.2av)
- Windows 10 Enterprise 20H2 (OnGuard and Milestone Client)
- Windows Server 2019 Standard (OnGuard and Milestone Servers)

PSG Video Image Control and Display System (VICADS)

- VICADS Version 4.3 tested with LPE v8.1 (on Windows 10)
- VICADS Version 4.3.5 tested with Vindicator Command and Control Platform Version 10 (on Windows 10)
  - Server O/S: Microsoft Windows Server 2022 version: 10.0.20348, (OS Build 20348)
  - Client O/S: Microsoft Windows 10 Internet of Things Enterprise LTSC version: 10.0.19044, (OS Build 19044)
- VICADS Version V100.2.1 tested with LINX Predator Elite Version 8.1.2100p, subpatch p8121.01.17, Cyber Security Solution 2.0.0 (Windows 10 LTSC 2021; Windows Server 2022, build 21H2; Ubuntu 20.04 LTS in FIPS Mode)
- VICADS Version V100.2.1 tested with Vindicator Command and Control Platform Version 10: Intrusion Detection System (IDS) & Access Control System (ACS) V5 Devices (4.5.2), VR22; IDS & ACS V3 Devices (4.3.2) VR22; Security Archive Workstation (SAW) 1.4.3.0, SP6; and Vindicator Badge Manager (VBM) 2.0.26.7, SP3.

CAMERAS / IMAGERS

Assessment Cameras

Note*: The following imagers may be used to perform alarm assessments from interior and exterior sensor points.*

- Axis Q6075 Indoor PTZ
- Axis Q6075-E Outdoor PTZ
- Axis Q1656
- Bosch NBN-63023-B
- Bosch NBN-73023-BA
- Hanwha PNB-A6001
- Hanwha XNB-6003
- Hanwha XNZ-L6320A
- Pelco Sarix IXE Series Box Cameras w/ SureVision 3.0
- Vicon V2002D-W313MIR
- Vicon V2008-W-NL
- Vivotek IP9165-HT-v2 *(Note: for indoor use only and was only integrated with the Video Image Control and Display System (VICADS) V-100 (Version 100.2.1.1) VMS)*

Pan-Tilt-Zoom Cameras

***Note**: These cameras may be used to assess alarms received from the approach zone as well as to perform surveillance and situational awareness functions. They will not be used as the primary means to perform alarm assessments of interior or exterior sensor points.*

- Avigilon H5A IR PTZ (Model: H5A-IRPTZ-DP40-WP)
- Bosch Auto Dome IP Starlight 7000i Camera (Model: NDP-7512-Z30)
- Bosch MIC IP Fusion 9000i (Model: MIC-9502-Z30WVF)
- Pelco Espirit Enhanced ES6230-15P-R2
- Pelco S7230L-PW
- Vicon V2002-D-PTZ

Camera Environmental Enclosures

- Bosch UHO-HBGS-61 Outdoor Camera Housing

INTRUSION DETECTION SENSORS

Interior Sensors

***Note:** Balanced Magnetic Switch (BMS) will not be used as a line of detection.*

- ASSA ABLOY (Securitron Group) MSS-1 High Security Balanced Magnetic Switch
- Banner Engineering Series Active Infrared (AIR), intrinsically safe, Model SMI30 *(Note: Must be installed as an array of individually reporting sensor points, for use across openings in areas where explosive fumes may be present).*
- BEA LZR-i30
- BEA LZR-s600
- Bosch ISC-BPQ2-W12 PIR (Curtain Configuration Only)
- Bosch ISC-PDL1-WA18G PIR (Curtain and Volumetric Configuration)
- Dortronics 1110 xD xCT, Magnetic Lock/BMS
- Dortronics 1120 x2D xCT, Series Electromagnetic Lock and BMS
- East Coast Security Products Inc. ESM-6T Tandem BMS
- Edwards 2807T-M BMS
- Eltec 862 Passive Infrared (PIR) Sensor (Wall)
- Eltec 864 PIR
- Fiber Sensys LD204S
- Fiber Sensys LD308SH
- Magnasphere HS-L1.5-101 BMS
- Magnasphere HS-L1.5-111 BMS
- Magnasphere HSS-L2C-101 BMS (Concealed Contact)
- Magnasphere HSS-L2C-101-A BMS (Concealed Contact)
- Magnasphere HSS-L2C-111 BMS (Concealed Contact)

- Magnasphere HSS-L2C-111-A BMS (Concealed Contact)
- Magnasphere HSS-L2D-000 BMS (Dual Alarm Contact)
- Magnasphere HSS-L2D-800 BMS (Dual Alarm Contact)
- Magnasphere HSS-L2S-000 BMS (Single Alarm Contact)
- Magnasphere HSS-L2S-800 BMS (Single Alarm Contact)
- Magnasphere Interior Barrier Sensor Model MSK-101-MM
- Magnasphere Interior Motion Sensor Model MSK-101-MM
- Optex Redscan RLS-3060V
- Optex Redscan RLS-50100V
- Optex SX360Z PIR
- Protech Maxiris 3000/3100 Active IR Interior Sensor
- Protech Passive IR and Microwave Intruder Detectors (PIRAMID) SDI-76-G (Volumetric)
- Protech PIRAMID SDI-77-D (Volumetric)
- Protech SDI-76M-HS1-H Volumetric (Coverage 60'x 40', Two Sensors in Combination)
- Protech SDI-76MW Volumetric (Coverage 60'x 40', Two Sensors in Combination)
- Protech SDI-77XL2-EX, Explosion Proof Volumetric

Exterior Sensors

- BEA LZR-i30 (ECP Configuration)
- BEA LZR-s600 (ECP Configuration)
- DeTekion Defensor 100 Fence Sensor
- DeTekion Defensor 100 Fence Sensor (with Culvert Configuration)
- DeTekion Defensor 100 sensor system with the GD-5000 Eliminator signal analyzer
- DeTekion Vertical Taut Wire Sensor 400 (VTW-400), full fence or out-rigger configuration
- EAG of Americas Infrared Intrusion Detection System 4/2/2 (IIDS4/2/2) Active Infrared Sensor
- EAG of Americas Infrared Intrusion Detection System 4/4/2/2/2 w/ PSTC
- EAG of Americas Intrusion Detection System 4/2 (IDS 4/2) Active Infrared Sensor
- ECSI Infrared Pulsed Intrusion Detection System (IPIDS), up to 80m with spring loaded mount bases and 100m with solid concrete bases.
- Fiber SenSys Fiber Defender The following models have been tested: 331, 332, 341, and 342. *(Note: The 331 and 332 series is with "Sensitive" Lead-in cables whereas the 341 and 342 series is with the "Insensitive" Lead-in cables. Also, the last digit (1 or 2) indicates a single channel processor or dual channel processor. Additional note: The 33x series is normally utilized for TASS applications with the 34x series being utilized for all hardwired configurations.)*
- Fiber SenSys Fiber Defender 525 *(Note: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing)*
- Fiber SenSys Fiber Defender FD-342, v4.47
- Fiber SenSys Fiber Defender FD-342, v4.47 (Culvert Configuration)
- IR Global Infrared Intrusion Detection System 4/4/2
- IR Global IRG-509-15M

- Protech G-Fence with 2400 Processor, v2.5
- Protech G-Fence Gate Connector
- Protech PIRAMID / SDI-76-XL-MIL LT (Ladder and Tower) Only
- Protech PIRAMID / SDI-76-XL-MIL, PIR and Monostatic Microwave Sensor
- Protech Maxiris 3000/3100 Active Infrared Barrier (100 meter) w/ New Cell Insensitive to the Sun (NCIS) cells
- Protech Maxiris 3100 Active Infrared Barrier (100 meter)
- Protech Sorhea Technology G-Fence 600 Zoning (600Z) System
- Protech Sorhea Technology G-Fence 600 Zoning (600Z) System (Culvert Configuration)
- RBtec Ironclad Fence Sensor Double Run Configuration
- Senstar FlexZone Fence Sensor *(Note: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing)*
- Senstar Omnitrax buried line sensor w/Firmware Version MSP v2.90 w/FPGA v13.93
- Senstar UltraWave Detection Sensor TE (w/ Whiteman AFB tamper protection modification)
- Senstar UltraWave Microwave Detection Sensor (Firmware 3.04)
- Southwest Microwave 330 Digital Microwave System
- Southwest Microwave 385 Monostatic Sensor, up to 100m
- Southwest Microwave 460B Active Infrared Exterior Sensor
- Southwest Microwave Intrepid 334-33465 (Model 334), Double Stacked configuration with Model 336 installed on bottom of stack and Model 334 installed on top *(Note: Not approved for use in close proximity with airfield due to X-Band frequency for Model 334)*
- Southwest Microwave Intrepid 336-33464 (Model 336), Double Stacked configuration
- Southwest Microwave Intrepid Micropoint II

Wide Area Detection/Approach Zone Sensors

- FLIR Ranger 1 Perimeter Surveillance Radar (700 meters)
- FLIR Ranger 2 Perimeter Surveillance Radar (1400 meters)
- FLIR Ranger 3 Perimeter Surveillance Radar (2800 meters)
- Magos SR-500 Perimeter Surveillance System
  - Integrated with the Lenel OnGuard Version 8.1
  - Integrated with the Advantor Systems ASN, Version 6.2. MASS Version 2.24.10053, SR-500 Radar Version 3.64 and Radar Manager Version 1.5
- SpotterRF C40D Integrated with Advantor Version 6.2 *(Note: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing)*

ADDITIONAL PL-3 AND PL-4 ITEMS

In addition to the above components, the following equipment is approved for use in the protection of PL-3 and below assets.
Command, Control and Display Equipment (CCDE): None
Video Management Systems (VMS): None

Cameras/Imagers:

- Clear Align VZ-250 LRTI 23164-600
- Clear Align VZ-250 LRTI 23164Z1-600 (Improved Cooling)
- Clear Align LRTI-w/CCTV
  - C907891 Complete Kit
  - TICC/PTH only C907892
- FLIR DEFENDIR MS-UC 640 30/90MM CZ

Interior Sensors: None
Exterior Sensors: None

Attachment 2

CMD (Non-Nuclear) ('Non-Procurable') Equipment List, 24 Feb 2025

Approved for Continued Use and Sustainment in Existing Installs

COMMAND, CONTROL AND DISPLAY EQUIPMENT (CCDE)
(Integrated intrusion detection (IDS) and access control (ACS))

Advantor

- Advantor Advantage Suite for Networks (ASN) Version 6.2 (Win 10)
- Advantor Advantage Suite for Networks (ASN) Version 5.0
- Advantor Advantage Suite for Networks (ASN) Version 4.0
- Advantor Integrated Command, Control, and Access Control System Version 5.0
- Advantor Integrated Command, Control, and Access Control System Version 5.0 Service Pack 6
- Advantor Integrated Command, Control, and Access Control System Version 6.0

Prometheus Security Group (PSG) LINX Predator Elite (LPE)

- Annunciator Version 3.2.274p
- Annunciator Version 3.0.252
- Annunciator Version 3.0.246
- LINX Predator Enrollment System Version 4.0.203
- WSD 2000 Card Reader version 1.8V
- WSD-E Card Reader version 3.110
- LINX Annunciator Version 3.2.274p, subpatch p32274.1.13
  - LINX SNMP version 3.3.274P, subpatch 3.3.274P.1.13.30
- LINX Annunciator Version 3.3.274p, subpatch p33274.1.13.33
- LINX Versatile Interface Panel (VIP) Version 1.148
- LINX Versatile Interface Panel (VIP) Version 1.172
- LINX Versatile Interface Panel (VIP) Version 1.64
  - LINX Versatile Interface Panel, Expandable (VIP-E) Version 7.145
  - LINX Versatile Interface Panel, Expandable (VIP-E) Version 7.284
  - LINX Versatile Interface Panel, Expandable (VIP-E) Version 7.288

Honeywell Vindicator

- Vindicator 10 Annunciator Workstation (Win 10 LTSB):
  - AES-1500 Network Field Device-Version 4.3.2 SP VR11
  - Security Archive Workstation 2-Version 1.4.3.0
  - V3 Head-End Server (IDS & ACS)-Version 4.3.2 SP VR11
  - V5 Network Security Appliance-Version 4.5.2 SP VR11
  - Vindicator Area Commander-Version 1.1.0.7
  - Vindicator Badge Manager 3-Version 2.0.26.7
  - Vindicator Command and Control 2-Version 1.3.0.2 SP4
  - Vindicator PC Smart PAC (PCSP)-Version 6.0.0.1
  - Vindicator Premise Controller-Version 4.3.2
  - Vindicator Security Server-Version 1.0
  - Vindicator Site Commander-Version 1.3.0.7
  - Vindicator System Terminal-Version Win 10 LTSB

Approved for Continued Use and Sustainment in Existing Installs

- Vindicator Security Management and Reporting Terminal (SMART) Annunciator with Graphics Display:
  - Version 2.40 with Administrative Browser 4.0
  - Version 2.43, Build 11
- Vindicator Command and Control (VCC) Version 1.0.1.5
- Vindicator Access Control System (ACS) Version 2.3, Build 21
- Transponder Firmware Version 2.28
- TS 4000 Radio Frequency (R/F) Modem Interface
- Vindicator SMART with Graphics Display Version 2.39 and SAW Version 3.9
- Vindicator Command and Control Platform (VCCP) v5- Version 5.0
- Vindicator Command and Control Platform (VCCP) v5- Version 6.0
- Vindicator Command and Control Platform (VCCP) v5- Version 6.5 (Win 7, 32 bit only)
- Vindicator Command & Control (VCC) GUI Version 5.1.1.4
- Vindicator Badge Manager 2 (VBM 2) Version 2.0.7.0
- Vindicator Badge Manager 2 (VBM 2) Version 2.0.7.1 (Win 7, 32 bit only)
- Vindicator Security Archive Workstation (SAW 5) Version 5.1.0.6
- Honeywell Vindicator Site Commander Version 1.2.0.1
- V5 IDS Network Security Appliance – Intrusion Detection, Revision 3.2, Release 20:
  - UHS-8270
  - DES-8270T
  - AES-8270T
- V5 ACS Network Security Appliance – Access Control Revision 3.2 Release 20:
  - UHS-1401
  - DES-1401T
  - AES-1401T
- Vindicator UHS-Net Gateways:
  - UHS-8101 Version 2.33, Build 7
  - UHS-8102 Version 2.33, Build 6
  - UHS-8301 Version 2.33, Build 13
  - UHS-8400 Version 2.33, Build 13
- Vindicator UHS-Net Transponder/Gateway Revision 3.3, Release 5:
  - UHS-1500
  - DES-1500T
  - AES-1500T
- Vindicator UHS-Net Transponders Version 2.33, Build 13:
  - UHS-6842
  - UHS-6842F
  - DES-6842
  - DES-6842F
- PC SMART PAC Software Package Version 5.1
- Proteus 5 & SmartSave 5 Software Programs Version 5.2
- Vindicator Command & Control Platform (VCCP) Windows 7(64-bit):
  - Vindicator Command & Control 2-Version 1.2.1.4

  - V5 Network Security Application for IDS & ACS-Version 3.2, Release 23
  - UHS-1500 UHS-Net Field Panel-Version 3.3, Release 7
  - Security Archive Workstation 2-Version 1.4.2.9
  - Vindicator Badge Manager 3-Version 2.0.26.7
  - Vindicator Site Commander-Version 1.3.0.7
  - Vindicator Area Commander-Version 1.1.0.6
  - Vindicator Premise Controller-Version 3.3, Release 7
- Vindicator PC SMART PAK-Version 6.0.0.1
- Vindicator Security Server-Version 1.0

Lenel
- OnGuard Version 7.5 (not approved with any Ground Based Radar)

VIDEO MANAGEMENT SYSTEMS

Advantor
- Advantor VMS Version #va-advantorvms-3.3.22-1 (1/el5)
- Advantor VMS Wall Version ds-vmx-3.3.1-3

Bosch
- Allegiant Matrix/Control System LTC 8600 and 8800

Cisco
- Broadware 4.80 / Cisco 5.1.1. Video Storage System *(NOTE: Cisco renamed the 4.80 after purchasing Broadware)*

Milestone
- Milestone XProtect Server Version 12.3

PSG Video Image Control and Display System (VICADS)
- VICADS Version 4.1 using Vindicator V5, Version 6 as the annunciator
- VICADS Version 4.0 Video Management System
- VICADS Version 4.1 Service Pack 1.6 using Vindicator V5, Version 6.5 as the annunciator
- VICADS Version 4.1 Service Pack 1.6 using LPE Version 3.2.274p, subpatch p32274.1.13 as the annunciator
- VICADS Version 4.1 Service Pack 2.0 using Vindicator VCCP Windows 7 as the annunciator *(Note: DefendIR Thermal imager protocol support, RadarWall, and Geoserver are not approved for use)*
- VICADS Version 4.1 Service Pack 2.4 using Vindicator VCCP Windows 7 as the annunciator (*Note: DefendIR Thermal imager protocol support, RadarWall, and Geoserver are not approved for use.)*

- VICADS Version 4.2.7 build 134 using LPE Version 3.3.274p, subpatch p33274.1.13.33 as the annunciator
- VICADS Version 4.2.7 build 134 using Vindicator 7 as the annunciator
- VICADS Version 4.3.2 using Vindicator (Win 10) as the annunciator
- PSGG VICADS Version 4.3.4 using Vindicator (Win 10 LTSC 2016, Win Server 2016) as the annunciator

---

CAMERAS / IMAGERS

Assessment Cameras

- Axis P3245-LVE
- Axis P3265-LVE
- Axis Q1645 Fixed Camera
- Axis Q3527-LVE
- Axis Q6215-LE PTZ
- Axis Q3538-LVE
- Bosch 8001 Fixed Thermal Camera (Model: NHT-8001-F35VF)
- Bosch NDE-8503-RXT
- Bosch Flexidome Starlight 8000i Dual SD Variant must be used or WLAN Disabled (Model: NDE-8502-R)
- Bosch NBN-80052-BA
- Bosch NBN-63013-B
- Bosch Dinion Internet Protocol (IP) 7000 Camera
- Bosch NBN-498-21P Internet Protocol (IP) Camera
- Bosch NBN-71013-B
- Bosch NBN-71022-B
- Bosch DINION Internet Protocol (IP) Starlight 7000 HD (NBN-73013-BA)
- Bosch NWC-04-95-20P (1/3 Format)
- Bosch NWC-04-95-20P Internet Protocol (IP) Camera
- Burle 300H Camera
- Burle TC 351 Camera (1/2 inch format)
- Cohu 3930HD
- Cohu 4865 Camera (WS3) (2/3 inch format)
- Cohu 48x Camera (KUMMSC) (2/3 inch format)
- Cohu 4915/4912-3000 Camera (1/2 inch format)
- Indigo Vision 11650-Audio-HD
- IQ Eye 752 Internet protocol (IP) Camera
- Hanwha XNV-6083R
- Lumenera Le 165M-DN Internet Protocol (IP) Camera
- Lumenera Le 165ME-DN Internet Protocol (IP) Camera
- Lumenera Le 165MP-DN Internet Protocol (IP) Camera
- Pelco IXE2 Internet Protocol (IP)

- Pelco IXE20 IP Camera
- Pelco MC3651H-2 Interior Camera (1/3 inch format)
- Pelco Sarix IXP23
- VICON IQ762WI-V6 Internet Protocol (IP)
- Vivotek IP 7151
- Vivotek IP816A-HP (*interior only*)

Pan-Tilt-Zoom Cameras:
NOTE: These cameras may be used to assess alarms received from the approach zone as well as to perform surveillance and situational awareness functions. They will not be used as the primary means to perform alarm assessments of interior or exterior sensor points.

- Bosch Auto Dome IP Starlight 7000i Camera (Model: NDP-7512-Z30)
- Bosch Auto Dome VG 4-322-ECE1M
- Bosch Auto Dome VG5-624-ECS
- Bosch Auto Dome VG5-724-ECE2
- Bosch Auto Dome 7000 Internet Protocol (IP) Camera
- FLIR ThermoVision Multi-Sensor System (a.k.a. SLRTI):
  - T-2000 LRTI w/CCTV Complete Kit IBDSS1000-085
  - T-2000 LRTI w/CCTV TICC/PTH only IBDSS1000-086
  - T-3000 LRTI w/CCTV Complete Kit FDTA-199 T-3000 LRTI w/CCTV TICC/PTH only
- Hanwha XNP-6400RW
- Indigo Vision 512147 (PTZ)
- Pelco ES40E36-5W Esprit Series, with and without wiper, standard and pressurized
- Pelco ES30C/ES31C Pan, Tilt, Zoom (PTZ) system, 1/4 inch format, with or without optional wipers
- Pelco ES4136-2N Esprit ES system Pan Tilt Zoom (PTZ) System (1/4 inch format)
- Pelco ES4036-5W Esprit Series, with and without wiper, standard and pressurized
- Pelco P1220-ESR1 (PTZ)
- VICON SN680D-B-WNIR (PTZ)
- Vivotek SD8364E (PTZ)
- Wide Area Surveillance Thermal Imager (WSTI) Sentry I and Sentry II

INTRUSION DETECTION SENSORS

Interior Sensors:
Note: Balanced Magnetic Switch (BMS) will not be used as a line of detection.

- AN/GPS-15(V) Closed-Shelter Aircraft Sensor (C-SAS) (Volumetric)
- AN/GSS-20 Volumetric

- AN/GSS-36(V) Open-Shelter Aircraft Sensor (O-SAS) (Volumetric)
- AN/GSS-39(V) Interior Intrusion Detection System. Components include:

-- DR-301	-- DR-558	-- DR-851	-- HT-50B
-- HT-50DC	-- HT-100B	-- HT-100BC	-- SDI-76A
-- SD-150EHB	-- SRN-2000H		
-- SDI-77C	-- SD-80B	-- SD-80EHB	-- SD-150B

- AN/GSS-9(V) SA 1955 BMS
- Bosch DS 9370 PIR/MW (Volumetric)
- Bosch DS 939 PIR (Volumetric)
- Fiber Sensys AP2-20N Passive Infrared (PIR)
- Fiber Sensys EX-35T Passive Infrared (PIR)
- General Electric (Sentrol) Model 2507AH-L Wide Gap BMS
- General Electric (Sentrol) Model 2700 Series BMS
- General Electric (Sentrol) Model 2800 Series BMS
- General Electric (Sentrol) Model 2807T Explosion Proof BMS
- General Electric AP669 PIR (Volumetric)
- Optex Redscan RLS-3060SH Laser Scan Detector *(Note: Approved for wall and ceiling configurations)*
- PL&E Communications AVT 234 (VMD) using Dinion analog infrared imagers *(Note: For interior use only)*
- SightLogix SightSensor Video Motion Detection (VMD) using NS-90A Thermal Imager *(Note: For interior use only)*
- Tyco Visonic Disc 360 Passive Infrared Sensor (Ceiling) (Coverage 360 Degree)
- United Technologies Interlogix AP669 Mirror Optic PIR (Volumetric)
- Visonic CH-1000
- Visonic CH-1000 (Wall)
- Xtalis ADPRO 18 WH PIR Combination (Ceiling) (Coverage 30'x 30')

<u>Exterior Sensors:</u>

- Birdeye Model IX Infrared Perimeter Detection System, up to 120m
- Fence Protection System 2-2R (FPS-2-2R)
- Fiber Optics Intrusion Detection System (FO-IDS), Fiber Optic Sensor System (FOSS) Models 100 and 200
- Fiber SenSys Terrain Defender TD100 (*Note: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing*)
- Microtrack buried line sensor *(Note: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing)*
- Perimitrax, Buried Cable Intrusion Detection Sensor
- Racon Single Stack; Barksdale Configuration - single stack, basket weave configuration with double stacked sensors at the corners
- Racon Double Stack
- Racon 16000-4 (Microwave) Sensor
- Racon 14000-32 Microwave Sensor

- Racon MPS-4100 (Microwave)
- Racon MPS-14000-1 (Microwave)
- Senstar Sentrax Short Ported Coaxial Cable Sensor (SPCS), large and small diameter cable, in the straight-line configuration
- Southwest Microwave Intrepid Micropoint. *(Note: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing)*
- Southwest Microwave 310 Bi-static Sensor, up to 100m

The following sensors in combination are approved for use as a line of detection with fence climber enhancement detection:

- Enhanced DTR-90 Vertical Taut Wire (VTW) Sensor, the DTR 90 "Y" VTW Sensor, or the VTW 400 Sensor installed at the top of the fence with any one of the following sensors installed on the fence: Fiber SenSys Fiber Defender FD300 series. The following models have been tested: 331, 332, 341, and 342.
- Fence Protection System 2 (FPS-2)
- Fence Protection System 2-2R (FPS-2-2R)

Wide Area Detection/Approach Zone Sensors

- PSRS STS-350 (FLIR/ICx) Ground Based Radar used as an approach sensor out to 125 meters (crawlers) as described below: ICX application software version 2.4.41.12 Firmware version 3.4.30 dated November 2, 2007.
- PSRS STS-350 (FLIR/ICx) with control station application software version 2.4.41.12 or when integrated with Will Burt Annunciator Version 3.2.274p, subpatch p32274.1.13
- Wide-area Infrared System for Persistent Surveillance (WISP) Version 2.1 *(Note: Tested as standalone wide area detection system; procuring party will be responsible for sustainment cost; Fixed Site Sustainment will not sustain the equipment)*

ADDITIONAL PL-3 AND PL-4 ITEMS

In addition to the above components, the following equipment is approved for use in the protection of PL-3 and below assets.

Command, Control and Display Equipment (CCDE)

- TASS 6.0.1 Annunciator (At deployed locations only)

Video Management Systems (VMS): None

Cameras/Imagers

- DiOP Thermal Imager 180/60mm Thermal Upgrade Kit (TUK)
- FLIR ThermoVision Multi-Sensor System (a.k.a. SLRTI)
  - T-2000 LRTI w/CCTV Complete Kit IBDSS1000-085

  - T-2000 LRTI w/CCTV TICC/PTH only IBDSS1000-086
  - T-3000 LRTI w/CCTV Complete Kit FDTA-199
  - T-3000 LRTI w/CCTV TICC/PTH only
- Short Range Thermal Imager; Fixed/Mounted (SRTI F/M)
- Surveillance Thermal Imager (WSTI) Sentry I and Sentry II

Interior Sensors: None

Exterior Sensors: None