



Mobile



Cellular



Cloud



Wireless Locking



Embedded



Enterprise

## Top-Rated Trilogy Networx® Wireless Networked Keyless Entry Access Locks, Integrated with Continental Enterprise, Embedded E-Access & AirAccess Hosted Access Systems\*



**EASY INSTALL**  
Replaces any door lock, on any door type, neatly, quickly



**MORE AFFORDABLE**  
Lowest labor & equipment costs without sacrificing top electronic access features



**EASY NETWORK**  
No wires to run to doors. Uses customers' existing network or Ethernet & multi-lock gateways & optional repeaters



**CENTRALLY MANAGED**  
Auto-Schedule program updates, queries, or free access by time, by door & more. Also Integrate w/ choice of Security Mgt Platforms



**USERS**  
Supports thousands of PIN, ID or iLock App users. Easily added/ removed local or remotely



**GLOBAL LOCKDOWN**  
or unlock in seconds from the server or any lock

### Networked Wireless Access Control that saves 1/2 the cost of a hardwired system, for every door or application

Based on Trilogy®, the #1 electronic standalone access locks, and integrated with several Napco Access Pro System Solutions, Networx™ Wireless Keyless Access Locks are networked to save staff labor, eliminating door-to-door programming and audit trail retrieval, by communicating wirelessly via Ethernet or 802.11B/G, all while providing the ultra dependability, functionality & long battery life, original Trilogys are known for. The expanded Networx line, for every type of door, combines to provide a quick, easy, economical access system for up to 2000 doors and 5000 users, with advanced features & functions, e.g., automatic schedules, event logs. But, with no wires to run, and no access panels or power supplies to buy or install, it can be a great time and budget saver for buildings, campuses or office suites. At its simplest, it's one Grade 1 wireless lock per door, installed in about an hour, all communicating to a single Gateway (your choice of gateways controls up to 63 locks), networked to any non-dedicated Windows-based PC. In addition to Wireless Trilogy Networx' unsurpassed battery-life, exceeding 5 years, they feature new network-wide capabilities, executed from any lock or the network's PC, including emergency priority global lockdown deployed in seconds, and you can activate (non-priority) system-wide free-passage or locking modes from the PC.

- **Trilogy Network Locks communicate wirelessly via Ethernet, Bluetooth LE or 802.11B/G** for a comprehensive wireless networked door access control system, eliminating door-to-door programming and audit trail retrieval and providing all standalone Trilogy lock functionality plus new network-wide and emergency lockdown features
- **Unsurpassed 5-year+ battery life, typical**, (Automatic battery status reports at the PC; visual and audible low-battery status indicators at lock(s).)
- **Trilogy Network and gateway modules have an integral transceiver for highly-efficient 900MHz bidirectional communications**, for longer range and less interference than with more common 2.4GHz spread spectrum devices. Alarm Lock devices require NO wiring; NO splitters or repeaters; NO hardwiring to the host/server; NO extra power supplies; and NO access controller/panels.
- For real-time access applications, Network Locks offer enterprise network integration with several leading platforms, including Napco Access Pro's Enterprise, Embedded & Cloud-Hosted Platforms
- **In seconds, emergency global lockdown can be activated from the Networx PC, any Networx lock or Keyfob (RR-4BKEYFOB)**. (This priority emergency command is lightning-fast system-wide and supersedes all scheduled programs or updates, etc. However, if desired, locks may be selectively programmed to be excluded from emergency global lockdown function, i.e., they will ignore the command.)

- **System-wide free-passage enable or disable**, can likewise be activated from the Networx PC
- **Locks easily retrofit standard locks and support up to 5000 users with 3-6 digit numeric PIN codes and PDL-Series also support prox ID card users** (virtually all HID™ format proximity technology ID cards or credentials.)
- **On demand, in seconds, wirelessly change users, schedules, lock features or retrieve audit trails of up to 40,000 events/lock from any networked PC**. (Note: Transaction processing time is dependent upon system capacity, the more locks/gateways and the more data to be up/downloaded, the longer the time.)
- **Unattended programming updates or event log retrievals can be scheduled** to run automatically, saving manpower and productive time.
- **Seamless upgrade path for original Trilogy users**: Intermix with existing Trilogy standalone lock installations and share one database and familiar Trilogy lock and software functions: Trilogy Wireless Network Locks seamlessly integrate in an existing Alarm Lock Trilogy standalone door access system and share the same single DL-WINDOWS database (requires v4.1.x or higher). Existing Trilogy users can easily add one wireless Network Lock, or as many as two thousand, to an existing system seamlessly with no downtime.
- **Secure 128bit AES PC encryption and proprietary RF-link lock communication encryption** protects the system from interference or tampering (WEP or WPA compatible with wireless modem).
- **Remote System Management**: VPN-connection /remote capability for accessing the Networx System and controlling up to all 2000 locks, with all the security and peace-of-mind of your IT network. (No special modems required.)
- **Wireless locks are fully keypad programmable** and can be up and functioning even before their wireless network is configured, so IT departments don't have to coordinate with physical security departments or locksmiths
- **Minimizing hardware & installation costs, a single gateway module can interface between the PC network and up to 63 Networx locks**, with a range of up to 900' clear field range or up to 200' depending on building construction. At its maximum, a Trilogy Network system can comprise up to 32 gateways for the networking of up to 2000 locks or access controlled doors. Gen. 3 Gateways & Expanders for easiest networking
- **Enterprise Software Integration Options for real-time &/or Integrated Access provided with Continental Enterprise, AirAccess, E-Access Embedded Systems & Lenel OnGuard**



# Advanced Wireless Access Control for Business,

- Wall- or ceiling-mountable, compact gateway modules are available in wireless/hardwired and POE versions communications support both wired Ethernet 10BaseT and wireless 802.11
- New Gen. 3 Gateway models provide offline remote preconfiguration from any smart device. Or, onsite, in discovery setup mode, the system will locate and software will display each lock's signal strength at each installed gateway, so you can select it & optimize reliable communications and eliminate guesswork
- Lock programming, user- and usage-data are stored locally at the battery-powered lock for uninterrupted door access usage in a power outage or server offline situation

## Enterprise & Integrated Options, Some including Real-Time Performance

- Networkx locks can be used as wireless, single-door controllers in real time too
- Use with Continental Enterprise or E-Access Embedded Systems, or AirAccess ACaaS &/or Lenel OnGuard Platforms ‡

## Trilogy Network Lock Specifications:

- Weatherproof locks for indoor/outdoor use with wide operating temperature range (-31 to 151° degrees F)
- Cylindrical models boast industrial strength BHMA Grade 1 durability and all models feature vandal-resistant all-metal keypad for PIN codes
- PDL versions, HID Prox. Reader
- ADA-compliant leversets
- Easy-to-install modified ANSI A115 Series door prep; easily and neatly retrofit standard cylindrical knobs and mechanical standalone locks, in under an hour. Non-handed
- 3 hour UL fire-rated deadlatch
- Manual key override standard; most IC cores also supported on interchangeable core models
- Available in 26D satin chrome & 10B duronodic finishes and IC core preps (6-7pin)



Up to 2000 locks and a PC communicate wirelessly through bidirectional Gateways – eliminating the need for door-to-door programming and audit trail retrieval. System Management with free DL-WINDOWS or Enterprise Solutions:



In seconds, global lockdown or unlock can be implemented from any Trilogy lock, even if the computer is inaccessible or totally offline!

## Network Interface

**INTERFACE:** Ethernet 10Base-T or 100Base-TX (using RJ45 Jack)

**PROTOCOLS:** TCP/IP, UDP/IP, DHCP 802.11 Wireless Specifications

**WIRELESS STANDARDS:** IEEE 802.11b; 802.11g

**FREQUENCY RANGE:** 2.412 - 2.484 GHz

**OUTPUT POWER:** 14 dBm + 1.5 dBm/-1.0 dBm

**MAXIMUM RECEIVE LEVEL:** -10dBm (with PER < 8%)

**DATA RATES WITH AUTOMATIC FALLBACK:** 54Mbps - 1Mbps

**RANGE:** Up to 328 feet indoors

**MODULATION TECHNIQUES:** OFDM, DSSS, CCK, DQPSK, DBPSK, 64 QAM, 16 QAM

**INTERFACE:** Wireless 802.11b, 802.11g and 10/100 Ethernet

**PROTOCOLS:** TCP/IP, UDP/IP, DHCP

**SECURITY:** IEEE 802.11 - PSK with AES Encryption 128-bit Encryption

- 128-bit AES Rijndael encryption

## AL Radio Link

- 900 MHz GFSK, 50 channels, 10mW power output

**VOLTAGE:** 5 - 6 volts AC/DC

**OPERATING TEMPERATURE:** -20° to 60°C (-4° to 140°F)

**STORAGE TEMPERATURE:** -40° to 85°C (-40° to 185°F)

**AVERAGE POWER CONSUMPTION:**

- 1300 mW (WLAN mode; maximum data rate)
- 300 mW (WLAN mode; idle)
- 750 mW (Ethernet Mode)

**PEAK SUPPLY CURRENT:** 650 mA

**INPUT VOLTAGE:** 5 - 6 volts AC/DC

**OPERATING TEMPERATURE:** -31 to 151° degrees F

**STORAGE TEMPERATURE:** -40° to 85°C (-40° to 185°F)

‡ Important: For enterprise integration consult technical documentation to match proper AL hardware (Gateways, Expanders, etc.) with enterprise software Versions supported

## Easier Networking with Gen. 3 Gateways - Now with Offline-Preconfiguration from any Smart Device (63 Locks/Gateway)



### AL-IM3-80211 Gen. 3 Hardware & Wireless Gateway

The Trilogy Networkx 3rd Generation Gateways interface up to 63 Networkx Locks with a PC network. The new 80211 model now features networking via either a hardwire Ethernet connection &/or wirelessly via a bi-directional radio. Similar in function to the original Networkx Gateway Modules, and able to be intermixed with them, but now featuring dual mode installation flexibility and new "Offline-Preconfiguration" from any smart device or PC/laptop, i.e., enabling setup prior to getting on the job-site. Gen 3 Gateways require DL-WINDOWS version 5.5 +, support up to 7 of the same AL-IME2 Expanders (which extend the range up to 100 feet); 3 LED indicators display Gateway's operational status. Ceiling or Wall Mount.

(Note: Original Gateways still supported)



### AL-IM3-POE Gateway

With all the features & functionality of the above, but AL-IM3-POE (Power Over Ethernet) Hardwired Gateway interfaces Networkx locks with a PC network with hardwire Power-Over-Ethernet. Gen 3 Gateways require DL-WINDOWS version 5.5 +, support up to 7 of the same AL-IME2 Expanders which extend the range up to 100 feet); 3 LED indicators display Gateway's operational status. Ceiling or Wall Mount.



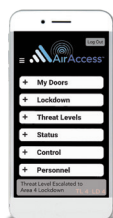
### AL-IME2-EXP Expander

Trilogy® Networkx™ Expander extends the coverage area BOTH Gen 2 & 3 Series Gateways to Trilogy Networkx Locks within a PC network, allowing greater distances for the placement of up to a maximum rated capacity of 63 Networkx locks per Version 2 or 3 Gateways. Ceiling or Wall Mount.



### AL-IME2-PIE Plug-in Expander

As above, this Plug-In Expander extends the coverage area of either Gen 2 or 3 Series Gateways. Plugs into standard AC Wall Outlet.



## NEW CLOUD-BASED ACaaS WITH EASY CELL NETWORKING AUTO-CONNECTS LIKE A CELLPHONE. FOR NEW OR RETROFIT SYSTEMS: ADDS SUBSCRIBER SERVICES & MGT FROM A REMOTE PC/SERVER - IDEAL FOR SMALL/MEDIUM BUSINESS ACCOUNTS

Transforms Trilogy Networkx locks &/or Netpanels w/ standard prox readers into more profitable, full access control systems, with remote management, RMR & real-time lock-down security & remote app w/ built-in credential. Easy networking with cell-based radio units that communicate to dedicated AirAccess gateways over leading LTE cellular networks, & connects wirelessly & automatically, just like a phone. >>Easy 5-step wizard cloud-based software and cell communicator unit included in starter kit (#AA-KIT1A) - just add choice of wireless door tech. Wireless door to the cloud: Trilogy Networkx lock or Netpanels. Great w/ gate operators too. Scalable expansion: each supports 500 users/378 doors (63 gateways per kit. (Note: Locks w/ Door Position Monitoring Recommended.)

# Campus, Healthcare & Office Security Management

**NOTE:** Part numbers are either prefix **DL** for digital PIN code locks or **PDL** for digital locks with added built-in Prox ID Card Reader

## P/DL6200: Cylindrical Lock

- Provide all standalone Trilogy lock functionality plus new network-wide and emergency lockdown features
- 5000 users with 3-6 digit PINs or HID® ID cards
- Includes Door Position Switch/Request to Exit
- Flexible System Monitoring, Control & Programming
- Unsurpassed 5-year+ battery life, typical, using 4 C-cell off-the-shelf batteries (supplied)
- Grade 1 durability, rugged clutch mechanism and weatherproof for use inside or out
- **PDL6200** with built in HID prox reader (shown left) accepts most HID Proximity cards and keyfobs; **DL6200** has keypad only; Prox only model available
- For Prox iClass™ ID cardholder support with DPS/REX, specify model **PDL8200**
- Flashing Lock Down Indicator on Inside Door



Lockdown indicator on back



## PDL6300 Double-sided Cylindrical Prox Lock

- Double-sided Trilogy lock functionality from 2 sides of the door; PIN/Prox access logged coming and going
- Built-in HID prox reader accepts most HID Proximity cards and keyfobs
- Rugged clutch mechanism and Grade 1 durability ensure long life
- Flexible System Monitoring, Control & Programming
- Long life battery operated; 4AA batteries, 60,000 cycles, typ.
- Weatherproof for use inside or out - A jetway favorite



Remote keyfob support for lock, unlock or global lockdown activation (RR-4BKEYFOB)



## P/DL6600: Mortise Lock

- Keyless Access Lock for mortise door prep
- High security mortise locking
- Flexible System Monitoring, Control & Programming Weatherproof and long-life battery operated
- Includes Door Position Switch/Request to Exit
- 1-3/8" mortise cylinder included
- Choice of classroom or deadbolt functions & finishes
- **PDL6600** with built in HID prox reader (shown left) accepts most HID Proximity cards and keyfobs; **DL6600** has keypad only; Prox only model available
- For Prox iClass™ ID cardholder support with DPS/REX, specify model **PDL8600**



## P/DL1300NW: Narrow Stile Lock Trim

- Add keyless access, automatic lock & free passage schedules to glass doors; plus add remote keyfob support and emergency global lockdown in seconds
- Aluminum door retrofit outside trim for most Adams Rite® Series Latch Locks (1850, 1950, 4710, 4070, 4730, 4900 Series & MS1850S and MS1950S Series)
- 5000 users with 3-6 digit PINs or HID® ID cards; Flexible System Monitoring, Control & Programming
- Weatherproof and long-life battery operated
- **PDL1300NW** with built in HID prox reader (shown right) accepts most HID Proximity cards and keyfobs; **DL1300NW** has keypad only



## P/DL1300NWET: Narrow Stile Exit Trim

- For use with Jackson®, Dor-O-Matic®, Von Duprin®, Dorma®, Arrow®, DCI® & Corbin® panic devices. †NOTE: Must use P/DL1350NWET or P/DL1325NWET with Dor-O-Matic, 2090, Jackson 1095 & Dorma 5300 as they require more than 85° rotation. Dor-O-Matic, Jackson and Dorma devices require thumb-turn or knob; must purchase separate tailpiece assembly

## NETDK/NETPDK: Networkx® Wireless Keypads

- Global lockdown and passage from keypad or PC, schedules, 35K event log, door position status indicator, request-to-exit, door ajar/kick-in, remote release options
- Ideal for use with strikes, mags, electrified exit devices
- 5000 users with 3-6 digit PINs or HID® ID cards
- Versatile for indoors or outside, ideal for education, healthcare, government, airports, courts & retail
- Familiar Trilogy operation; flexible system monitoring, control & programming
- **NETPDK** with built in HID prox reader accepts most HID Proximity cards and keyfobs; **NETDK** has keypad only (Note: Keypads currently not supported by Enterprise Platforms)



## ETDLN/ETPDN: Exit Trim

- Add Trilogy Networkx keyless pushbutton convenience and labor-savings to any panic exit bar
- Rugged clutch mechanism insures long life and durability
- Flexible system monitoring, control & programming
- Models available for Von Duprin™, Sargent™, Yale™, Corbin/Russwin™, Dorma™, Marks M9900 or Arrow™ push bars
- Weatherproof and long-life battery operated
- **ETPDN** with built in HID prox reader (shown right) accepts most HID Proximity cards and keyfobs; **ETDLN** has keypad only; Prox only model available
- For Request-to-Exit, specify model **ETPDN-RX**
- For Prox iClass™ ID cardholder support with REX, specify model **ETPDNI-RX**



ArchiTech Customizable Networkx Locks are also available with designer, minimalist look and concealed electronics in choice of hundreds of styles & finishes in the ArchiTech™ line, [www.architechnetworkx.com](http://www.architechnetworkx.com)



# Top-Rated Trilogy Networkx® Wireless Networked Keyless Entry Access Locks, Integrated with Continental Enterprise, Embedded E-Access & AirAccess Hosted Access Systems\*

| Model & Feature                    | P/DL6200   | P/DL6600  | PDL6300  | P/DL1300NW   | ETDLN, ETPDN  | NETDK, NETPDK                                       |
|------------------------------------|--|---|--|--|---|---|
| Lock Type                          | Cylindrical  | Mortise   | Cylindrical  | Narrow stile (also PDL1300NWET series for use w/ exit device)  | For use with exit device  | Keypad  |
| User Codes                         | 5000   | 5000  | 5000   | 5000   | 5000  | 5000  |
| Code Length                        | 3-6 digits   | 3-6 digits  | 3-6 digits   | 3-6 digits   | 3-6 digits  | 3-6 digits  |
| Programming                        | Keypad / PC  | Keypad / PC   | Keypad / PC  | Keypad / PC  | Keypad / PC   | Keypad / PC   |
| Vandal-Proof Keypad                | All metal, 12 button   | All metal 12-button                                 | All metal 12-button                                  | All metal, 12 button   | All metal, 12 button  | All metal 12-button                                 |
| Trim w/Rugged Clutch               | Straight or curved lever   | Straight or curved lever                            | Straight or curved lever                             | Straight or curved lever   | Straight or curved lever  |   |
| Audit Trail Events                 | 35000  | 35000   | 40000  | 35000  | 40000   | 35000   |
| Scheduled Events                   | 500  | 500   | 500  | 500  | 500   | 500   |
| Reader/Credential Support          | PDL6200 for HID Prox; PDL8200 for iClass support                                   | PDL6600 for HID Prox; PDL8600 for iClass support    | HID Prox   | PDL1300NW for HID Prox   | ETPDN for HID Prox; ETPDNI for iClass support   | NETPDK for HID Prox                                 |
| Lockdown w/ Flashing Bar (Privacy) | Global lockdown via lock, server or optional keyfob                                | Global lockdown via lock, server or optional keyfob | Global lockdown via lock, server or optional keyfob  | Global lockdown via lock, server or optional keyfob  | Global lockdown via lock, server or optional keyfob   | Global lockdown via lock, server or optional keyfob |
| Door Position Switch †             | PDL6200; PDL8200 with iClass support   | PDL6600; PDL8600 with iClass support                |  |  |   |   |
| Request to Exit †                  | PDL6200; PDL8200 with iClass support   | PDL6600; PDL8600 with iClass support                |  |  | ETPDN-RX; ETPDNI-RX with iClass support   |   |
| Weather-Proof -31 to 151° F        | Standard   | Standard  | Standard   | Standard   | Standard  | Standard  |
| Handing                            | Non-handed   | Handed  | Non-handed, fully field reversible                   | Non-handed, fully field reversible   | Non-handed, fully field reversible  |   |
| Door Thickness                     | 1-5/8 to 1-7/8" (others on request)  | 1-5/8 - 1-7/8"                                      | 1-5/8 to 1-7/8" (others on request)                  | 1-3/4"   | 1-5/8 to 1-7/8" (others on request)   |   |
| Backset                            | 2-3/4" (included); 2-3/8" option.  | 2-3/4" (included)                                   | 2-3/4" (included)                                    | 31/32, 1-1/8 & 1-1/2"; Stile Thickness 1-3/4"  |   |   |
| Cylinder                           | Large key-in-knob, incld -or- IC Prep for Best/Falcon/Arrow (cylinder not incldd.) | Generic mortise cylinder supplied                   | Large key-in-knob, incld -or- IC Prep for Best, only | 1-1/4" mortise cylinder, supplied; for Best, Falcon, Arrow prep cam and housing available (cylinder not incldd.) | Generic rim cylinder supplied. For other manufacturers' cylinders, adapters can be ordered separately |   |
| Special Order Cylinders            | Yale, Medeco, Sargent, Corbin/Ruswin, Schlage                                      |   |  |  |   |   |
| Relay Options                      | Yes  | Yes   | No   | No   | Yes   | Yes   |
| Battery/Cycles Typical             | 4 C cells; 500,000 or up to 5 years  | 5AA; 60000  | 4AA; 60,000 or up to 3 - 4 years                     | 4AA; 100,000 or up to 3 - 4 years  | 4 C cells; 500,000 or up to 5 years   | 4 C cells; 500,000 or up to 5 years                 |
| Ratings                            | BHMA Grade 1 Lockset; 3hr. Fire Rated UL   | 3 Hour fire rated UL                                | 3 Hour fire rated UL                                 | 3 Hour fire rated UL   | 3 Hour fire rated UL  |   |
| Architectural Finishes             | US26D, US10B   | US26D, US10B  | US26D, US10B   | US26D, US10B   | US26D, US10B  | US26D, US10B  |

Note: Standard finishes are US26D Satin Chrome & 10B Duronodic. Consult factory for any other finishes. All products proudly backed by 2-year factory warranty.

## TRILogy NETWORKx™ ORDERING INFORMATION:

**PDL6200** Cylindrical Trilogy Networkx PIN/Prox. wireless access control lock with built in HID proximity ID card reader and Door Position Switch/Request to Exit feature

• Flashing Lock Down Indicator on Inside Door

**DL6200** As above, with full-metal digital keypad only

**PDL8200** As above, with iClass support

**PDL6600** Mortise Trilogy Networkx PIN/Prox. wireless access control lock with built in HID proximity ID card reader and Door Position Switch/Request to Exit feature

**DL6600** As above, with full-metal digital keypad only

**PDL8600** PIN/Prox Model as above, with iClass support

**PDL6300** Cylindrical Trilogy Networkx double-sided PIN/Prox. wireless access control lock with built in HID proximity ID card reader

**PDL1300NW** Network narrow stile wireless access prox lock trim with built in HID proximity ID card reader

**DL1300NW** As above, with full-metal digital keypad only

**PDL1300NWET** Networkx narrow stile exit trim with built in HID proximity ID card reader†

**DL1300NWET** As above, with full-metal digital keypad only†

**ETPDN** Trilogy Networkx wireless access lock trim with built-in HID proximity ID card reader

**ETDLN** As above, with full-metal digital keypad only

**ETPDN-RX** Trilogy Networkx wireless access lock trim with built-in HID proximity ID card reader with Request to Exit feature

**ETPDNI-RX** As above, with iClass support

**NETDK** DK Wireless Keypad, only

**NETPDK** DK Wireless Keypad with built-in HID proximity ID card reader

**AL-IME3-80211** Gen 3 Wired/Wireless Gateway

**AL-IME3-POE** Gen. 3 Gateway, Power Over Ethernet, No AC power required (Supports Gen 2 Expanders)

**AL-IME2-EXP** Gen. 2 Wireless Expander (supports Gen 2/3 Gateways)

**AL-IME2-PIE** Gen. 2 Plug-in Wireless Expander, AC power required

**DL-WINDOWS** Free Alarm Lock Trilogy Windows-based database software online at: [www.alarmlock.com](http://www.alarmlock.com)

**RR-4BKEYFOB** Optional 4-button remote keyfob

**AL-NSG** Optional Gateway Simulator Aid

**AL-NSM** Optional Site Survey Tool for Networkx Gateways

**AA-KIT1A** AIRACCESS Starter Kit for real-time Trilogy Networkx Mgt for full info see ALA537 Spec Sheet, or go to: [www.airaccess.com](http://www.airaccess.com) or ask any Alarm Lock Rep.

Napco Access Pro, Alarm Lock, Trilogy, Networkx, ArchiTech, AirAccess and Continental are trademarks of NAPCO Security Technologies, Inc. All others are trademarks of their respective companies.



\*System Integration Note: Integrated Lock Options vary by System/Application, please consult Napco Access Pro Sales &/or Tech Docs. Example, for use with AirAccess Hosted Systems, models with door-position monitoring are recommended.

\*\*Note: Feature Sets are subject to change.  
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