The Dell EMC Networking Cloudpath Enrollment System is software/SaaS that delivers secure network access to support any user, and any device, on any network.

Cloudpath secures every connection with WPA2-Enterprise, protecting data in transit between the device and the access point with powerful encryption. You gain visibility and control over which devices are on the network, and can define and manage policies so that every user sees only the network resources that they should see. Cloudpath software checks the security posture of devices during onboarding to ensure that they comply with your organization’s security policies. The system redirects users with noncompliant devices to remediate them before granting access. It associates every device with a user, and you can easily revoke access at any time—for example when a BYOD user leaves the organization.

Intuitive self-service workflows streamline network onboarding—users gain network access simply and securely without IT intervention. The software lets you deliver a great onboarding experience while dramatically reducing helpdesk tickets related to network access. Internal users can easily self-provision any device for network access using their existing login credentials. Cloudpath installs a digital certificate for network authentication so that after the initial connection users don’t need to hassle with Wi-Fi passwords ever again. Guest users access a self-service login portal and receive credentials for internet access via email or SMS.

Cloudpath software interoperates via its APIs with third-party products to further enhance security and improve user experience. It works flawlessly with any vendor’s wired and wireless infrastructure. Unlike leading competitors, Cloudpath software offers a unique combination of cloud-based or virtualized on-premises deployment, built-in multi-tenancy, cost effective per-user licensing and superior ease of use.
Secure multivendor network access
Cloudpath software delivers secure network access for every user, and every device, on any vendor’s network.

- Secure connections with WPA2-Enterprise via 802.1X authentication
- Powerful encryption for data in transit over the air
- Support for BYOD, guest and IT-owned devices—including IoT devices
- Up-front-posture check with remediation—including antimalware, registry settings, patches, PIN-lock on mobile devices and firewall
- Visibility and control over devices on the network—with the power to revoke access

Certificate management
Cloudpath software includes a built-in, comprehensive Certificate Authority (CA) that lets you create and manage your own Public Key Infrastructure (PKI).

- Built-in RADIUS server and user database
- Integration with external certificate authorities and user database infrastructures
- Certificate-based authentication, authorization and accounting (AAA)

Self-service onboarding and device enablement
Easy self-service onboarding ensures that users gain network access quickly and securely—without help desk involvement.

- Customizable workflows—entirely self-service or with internal sponsors—to tailor the user experience
- Optional pre-boarding lets users set their devices up for secure access before arriving at a given location
- Device provisioning capability can prompt users to install specific software during onboarding
- Customizable onboarding portal for guest access—including optional social login with Google, Facebook, LinkedIn and other popular identity providers
- Guest credentials via email, SMS or printed voucher

Policy management
Cloudpath software lets you define and manage policies that govern network access for all users. The software works with your network infrastructure to enforce policies for role-based access.

- Granular per-user, per-device policies, including bandwidth management and application-based access
- Role-based access control—users get only the appropriate level of access
- Private per-user networks via VLANs or access policies—users see only their devices and traffic

Third-party product integration via API
Cloudpath software integrates via its APIs with third-party products to enhance security and user experience. It works with any product that can consume its APIs.

- Web content filters—lets these products filter encrypted content and apply role-based filtering rules (technology partnerships: iBoss® and Lightspeed Systems®)
- Next generation firewalls—enables per-user and per-device policies (technology partnership: Palo Alto Networks®)
- Mobile device management—works with MDM products to support both managed and unmanaged devices with appropriate policies (technology partnership: AirWatch®)
- eduroam®—facilitates inter-campus roaming
- Google Chromebooks™—enables single-tap network onboarding

BYOD and guest users can easily onboard their devices for secure network access with intuitive self-service workflows—without IT intervention.
**PRODUCT SPECIFICATIONS**

**Deployment options**
- Cloud-based deployment
- On-premises virtualized deployment (VMware or Hyper-V)

**Redundancy and multitenancy**
- VM-based Cloudpath ES can be deployed as a standalone server or as a cluster in both active-active mode or as a star-hub for data replication and redundancy
- Multitenant mode enables MSPs to host multiple tenants within a single instance

**Certificate infrastructure (PKI)**
- Built-in certificate management system
- Unique CA for every tenant within the multi-tenant mode
- Ability to connect to external PKI
- Standalone or subordinate to integrate with existing PKI
- Certificate templates that integrate with policy
- Supports OCSP with automatic revocation

**RADIUS**
- Support for dynamic VLANs, ACLs and more
- Streamlined support for EAP-TLS and MAC Filtering
- Client-based support for PEAP
- Built-in RADIUS server
- Ability to connect to an external RADIUS infrastructure
- RADIUS accounting

**Onboarding**
- Self-service onboarding with customizable workflows
- Support for wired/wireless infrastructure from any standards-based vendor
- Unified wired or wireless access
- Support for BYOD, guests, IT-owned assets—including IoT devices

**Visibility and reporting**
- Per-device and per-user visibility and control
- Association between user, device, certificate and policy
- RADIUS accounting

**Authentication protocols**
- 802.1X (EAP methods: EAP-TLS, PEAP (client only), DPSK™)
- Web authentication
- Non-802.1X (MAC authentication)
- EAP-SIM configuration for iOS
- Support for HS2.0 R1 and HS2.0 R2 via OSU (Online Signup Server)
- RADIUS CoA
- OAuth 2.0 and SAML 2.0
- DPSK configuration for Ruckus WLAN

**User identity support**
- Microsoft® Active Directory®
- RADIUS via PAP
- Any LDAP-compliant directory
- Internal user database

**Device support**
- Android™ 4.3 and higher
- iOS® 6.0 and higher
- Chrome™ OS
- Windows® XP and higher
- Mac OS X 10.7 and higher
- Ubuntu® 12.04 and higher
- Fedora® 18 and higher
- Windows Phone® 8.1

**SMS and email**
- Native integration with Twilio® and CDYNE®
- Ability to configure any custom SMS gateway
- Built-in SMTP server or configure SMTP server

**Third party integrations via API**
- Next-generation firewalls
- Web content filters
- Mobile device management
- eduroam
- Google Chromebook
- Any platform that can consume APIs

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SUBSCRIPTION (Support Included)

CLOUD:

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<th>&lt;1K</th>
<th>1K-5K</th>
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| STEP 3: CHOOSE SERVER LICENSE QUANTITY | 1 license per 20K users |

- Licensed by user, not device
- User count determines volume discount
- Separate list price for education customers

PERPETUAL LICENSE

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ORDERING GUIDE

1. Select from cloud or on-premises deployment model.
2. If you select on-premises, choose from subscription or perpetual licensing model. Also order the Virtual Appliance.
3. Cloud deployment requires subscription model.
4. Determine the number of users in your environment, including guests.
5. Choose the appropriate SKU based upon subscription duration and user count.
6. Add optional service for assisted deployment.

Warranty and Services

Warranty
Select Dell EMC Networking products carry an Extended Life Limited Hardware Warranty (ELW). For details of your product warranty terms go to Dell.com/LifetimeWarranty.

Services to transform your wireless network
Our highly trained experts, with innovative tools and proven processes, help you transform your IT investments into strategic advantages.

Consulting
Trust our experts to design your new Wi-Fi network or help you optimize an existing one. Comprehensive reports provide valuable insight into Wi-Fi coverage, security and performance.

Deployment
Leverage ProDeploy engineers to get new wired and wireless network technology installed and configured. ProDeploy helps you save time, reduce costs and get it done right.

Support
Gain access to ProSupport technical experts who can quickly resolve Wi-Fi networking challenges. ProSupport provides comprehensive, proactive support for your network, as well as collaborative 3rd party assistance for multivendor environments.

Education
Empower your staff with the right skills for long-term success by getting them certified on Dell EMC Networking technology.

Learn more at Dell.com/Networking