



Nordic Edge OTP Server

The Nordic Edge One Time Password (OTP) server is an optional module that can be installed on the AppGate security server. It allows users secure access to applications and systems with strong, multi-factor authentication.

Flexible, user friendly, cost effective authentication solution designed to integrate with the AppGate Security Server

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Users today need access to information and applications anytime and anywhere. However, this leads to increased security risks. One major risk is that simple authentication (user name and password) cannot provide the assurance that unauthorized users will be kept out. Therefore, two-factor authentication is required.

Cryptzone's AppGate Security Server enables users to access systems securely anywhere, anytime, from any device. AppGate incorporates all the necessary security elements for controlling user access including strong user authentication.

The AppGate system already offers Password, PK, RADIUS, ACE, Cryptzone OTP and LDAP (AD) authentication methods. Two-factor authentication usually requires deployment of another physical appliance, often interfacing using the RADIUS protocol. Cryptzone now offers an alternative solution, the Nordic Edge RADIUS-based two-factor authentication solution. The Nordic Edge OTP Server is designed to be integrated into the AppGate solution thus avoiding the cost of another appliance.



The Nordic Edge One Time Password Server can be used at the same time as other authentication methods that are supported by the AppGate Security Server. This makes it possible to migrate from a legacy two-factor authentication system with minimal risk.

Common data stores such as Active Directory can be used. When a user name and password is successfully verified, a one-time password is sent to the user's mailbox by email or mobile phone through SMS. This one-time password is entered into the AppGate client and sent on to the Nordic Edge OTP Server to be verified. Only then will the user be authenticated and access provisioned. Note that the AD schema requires no change as only existing fields are used.

Easy installation

The Nordic Edge OTP solution is designed to run on an AppGate Security Server, and like the AppGate system it uses Java based software. A prerequisite for the OTP software to work on an AppGate system is the presence of a Java Runtime Environment (JRE). On any later AppGate versions this should already be in place.

Multiple OTP delivery methods

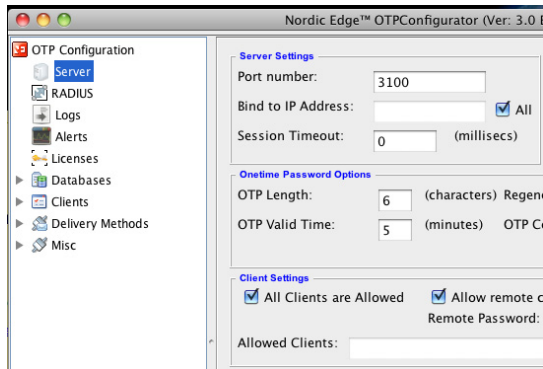
- One Time Passwords can be sent as an SMS, an email or a chat message.
- One Time Passwords can be generated in advance. This is called "pre-fetch". One Time Passwords can be printed or sent via SMS, email or chat. Great to have when you have limited or no access to GSM network.
- One Time Passwords can be generated using the Nordic Edge Pledge app on your mobile device (or desktop/laptop).
- Automated Key Enrollment for Pledge means no administrative involvement is needed in enrolling

tokens for end-users. This allows an extremely fast roll-out; perfect for organizations looking for a fast deployment or with a high number of external, temporary users.

- Full support for any OATH based hardware tokens, again with automated key enrollment.

All delivery methods for OTP authentication can be enabled at the same time. The configuration will either force users to use a specific method, or give users a choice between different authentication methods.

The software upgrade package needs to be installed and licenses added. The management software runs on any platform and is accessed through the AppGate as a service.



Once installed the Nordic Edge OTP Server is seen as one or more new RADIUS interfaces by the AppGate Security Server. Multiple RADIUS interfaces allow one to be used for say SMS and another for Token authentication.

When running in a clustered environment the Nordic Edge OTP Server can be installed/configured on the clustered AppGate Security Servers to provide high availability and fail over.

SMS Gateway

The management software allows you to configure the Nordic Edge OTP Server to work with your own SMS gateway. If you do not have access to a gateway then an SMS gateway service is also available.

This secure service is accessed over https and features two available URLs for high availability. There are also two delivery routes to the phone: if there is no acknowledgement of the receipt of the SMS then the OTP is sent again via the alternative delivery route.

The SMS gateway service is available as an annual contract similar to mobile phones.



Nordic Edge OTP Server Technical Specifications

User database support:	<p>LDAP (Open-LDAP, Sun One, Sun Java System Directory Server, Microsoft Active Directory, Novell eDirectory, IBM Lotus Notes/Domino, Siemens DirX etc).</p> <p>SQL via JDBC or ODBC (Oracle, Microsoft SQL Server etc).</p> <p>Support for user search in multiple, different user stores simultaneously, as well as complex user store calls.</p>
Protocol support:	<p>LDAP and LDAPS, HTTP and HTTPS, SMTP, Web Services/SOAP, NetSize, SMPP, CIMD2 and RADIUS.</p>
Distribution of One Time Password:	<p>Via SMS (flash or storable), e-mail and chat.</p> <p>Pre-fetched one-time passwords (can be saved in the mobile phone, delivered in an e-mail or on paper/scratching tickets).</p> <p>Pledge, mobile client from Nordic Edge.</p> <p>OATH-compliant tokens (e.g. Yubikey, RSA etc.)</p> <p>Pledge Desktop Client.</p>
Other:	<p>Supports all operating systems with a Java Virtual Machine (e.g. Microsoft Windows, Linux, Sun Solaris, IBM AIX, HP-UX, Novell Netware and Mac OS X).</p>

Cryptzone solutions mitigate information security risks identified in four key areas of Policy Compliance, Content Security, Secure Access and Endpoint Security.

The AppGate solution from Cryptzone enables organizations to provide controlled access for all authorized users regardless of their location whilst also ensuring network resources are protected against internal and external threats. This award-winning technology combines an application layer firewall with device security and granular access control system in one easy to use, cost effective system.

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