

# ActivIdentity NMAS™ Method

➤ Secure access to Novell® networks

## Strong two-factor authentication for Novell networks

For Novell customers concerned with securing user access to their networks, ActivIdentity NMAS Method provides organizations an extra layer of security. ActivIdentity® NMAS Method replaces weak static passwords with token-based one-time passwords enabling strong two-factor authentication. Native integration with Novell Modular Authentication Service (NMAS), Novell eDirectory™, and Novell iManager enables easy deployment, management, and broad application coverage for all login scenarios (i.e. LAN, VPN, Web).

### Key features

#### Secure Novell login

- Users login using a password that is valid only once, generated for each login by an ActivIdentity handheld token.
- Two-factor authentication, based on “something you have” (authentication device) and “something you know” (PIN).
- ActivIdentity one-time password authentication is based on a patented

three-variable algorithm: time, event counter, and cryptographic key.

#### Native Novell integration

- All user and device information is stored in Novell eDirectory with no additional server required.
- Authentication policies are based on eDirectory and applied to users via directory inheritance.
- User and device management is performed in Novell iManager using built in controls.
- Automatically supports any new NMAS-enabled application.
- Compatible with Novell SecureLogin®: administrators have built-in options to enforce one-time password login to sensitive applications; one-time password login enables user access to all single sign-on enabled applications.
- Compatible with Novell iChain®, BorderManager®, and Access Manager for organizations to secure access to web-based and remote corporate resources in addition to LAN login.

#### Device lifecycle management

- Users and devices are managed centrally using the iManager management console for increased efficiency.
- Lifecycle management of hardware tokens including user assignment, device unlock, and PIN management.



## Benefits

### Increases security and usability

- Increases protection of corporate resources by replacing the use of static passwords for user access with non-repeatable one-time passwords.
- Reduces employee frustration associated with complex static passwords; instead complexity is concealed within the token.
- Accommodates different levels of security and usability such as device plus PIN or device only user logins.

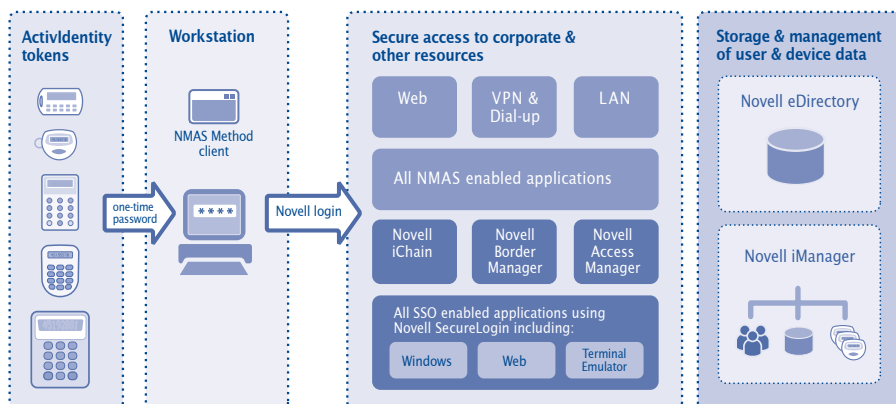
### Easy setup and management

- Simplifies deployment by leveraging existing eDirectory installation for user and device management.
- Eases distribution and enforcement of policies via directory inheritance capabilities.
- Empowers administrators with new capabilities built directly into iManager's management console; avoids the need for a new management console paradigm.
- Aligns with existing workforce practices by supporting all login scenarios.

### Low cost of ownership

- Minimizes cost of ownership as no additional server or database is required nor the associated configuration, maintenance, and training costs.
- Speeds ROI of existing and future Novell investments through interoperability with all Novell applications based on NMAS.

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ActivIdentity NMAS Method provides a strong authentication solution fully integrated with the Novell environment to enable secure, easy and cost-efficient access to network applications and resources.

**ActivIdentity NMAS Method components**

**Login Server Module**

- Integrated into NMAS Server running on Novell® eDirectory™ installation
- Validation of one-time password based on device information stored in eDirectory

**Login Client Module**

- For Novell Netware®: Integrated into NMAS Server, compatible with iChain® and BorderManager®
- For Microsoft® Windows®: Integrated into NMAS Client running on user's desktop (with Novell Client)
- Interface provided for end-user to enter a one-time password which is then forwarded to the Login Server Module

**iManager plug-in**

- Integrated into iManager providing device management services

**Security services**






**User authentication services**

- ActivIdentity synchronous one-time password, based on Time and/or Event Counter and/or Key Derivation
- X9.9 Challenge/Response

**Personal Identification Number (PIN) validation**

- PIN validation on the device (hardware tokens with keypad)
- PIN validation on the server (hardware tokens without keypad)
- Device locking after incorrect PIN entries
- Device disabling after incorrect one-time password entries

**Authentication device options**

Device	Picture	Dimensions and Weight	Replaceable Battery
ActivIdentity Mini Token AE		45 * 38 * 11mm 25 grams	no
ActivIdentity Keychain Token		62 * 37 * 9.5mm 35 grams	yes
ActivIdentity Token		82 * 52 * 5mm 25 grams	yes
ActivIdentity Pocket Token		67 * 48 * 9mm 30 grams	yes
ActivIdentity Desktop Token		140 * 108 * 35mm 245 grams	yes

**Management services**

- Automatic device resynchronization – performed at each synchronous authentication, reduces the need for help desk calls
- Manual device resynchronization
- Device unlock
- Device PIN setup
- Device Import – enables customers to easily and rapidly deploy pre-initialized hardware tokens to end-users
- Device assignment/ unassignment to eDirectory users
- Device enabled/disabled
- Authentication policies applicable to eDirectory objects (Organization, Organizational Unit, Users).
- Directory inheritance inside eDirectory facilitates policy distribution and enforcement for corporate deployments

**Compatible applications**

- Novell eDirectory
- Novell iManager
- Novell Modular Authentication Service (NMAS)
- Novell Access Manager
- Novell Client™
- Novell iChain
- Novell BorderManager
- Novell SecureLogin

**Industry standard compliance**

- Data Encryption: DES, 3DES, AES
- Challenge/Response: ANSI X9.9

**System requirements**

**Server**

- eDirectory 8.7.3 SP8 or 8.8 running on Windows 2000 Server SP4, Windows Server 2003 or on Netware 6.5 SP5
- Novell Modular Authentication Service 3.1.1 (included in Novell Security Services 2.0.2)

**Management Console**

- Novell iManager 2.6
- Browsers: Internet Explorer®, Mozilla®, Firefox®

**Client**

- Windows 2000 SP4, Windows XP SP2, Windows Server 2003
- Novell Client 4.91 SP2

**Related data sheet**

- ActivIdentity Tokens



To find out more about ActivIdentity NMAS Method or other ActivIdentity products, visit our website:

[www.actividentity.com](http://www.actividentity.com)

**Americas** +1 (510) 574 0100

**US Federal** +1 (571) 522 1000

**Europe** +33 (0) 1 42 04 84 00

**Asia Pacific** +61 (0) 2 6208 4888

**Email** [info@actividentity.com](mailto:info@actividentity.com)

