

**Register for the** demo CLICK!

Number of licenses issued

1,330,000

An authentication platform that provides Single Sign-On with tokenless one-time passwords



# **Reduced Deployment** and Operational Costs

Reduce purchasing costs and operating costs. Reduce administrator workload with automated user support.



# **Increased Security**

Implement secure authentication with security policies which can enforce requirements such as two-factor authentication and device authentication.



# **Improved Operational Efficiency**

The platform integrates with a wide range of services in the cloud and on premises to create a single sign-on environment.



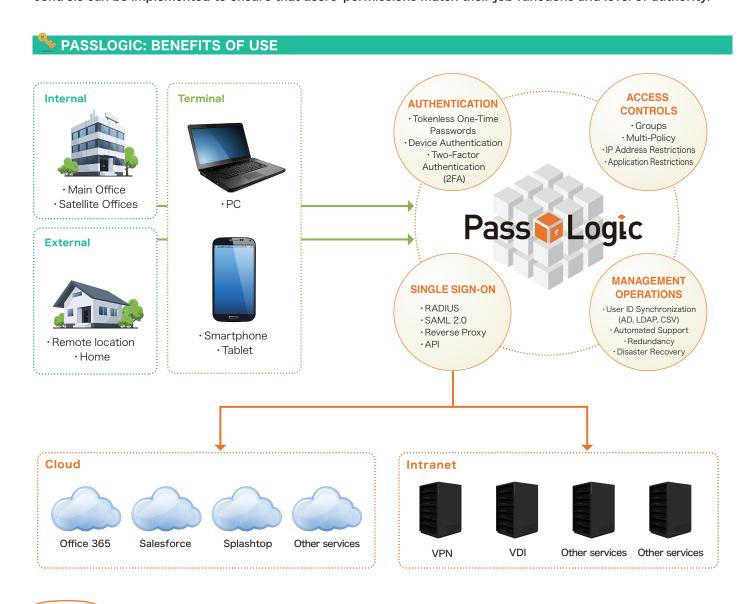
#### Windows Authentication

Protect access to Windows desktops by strengthening authentication for Windows Logon.

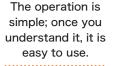


# Increase both security and operational efficiency with a single solution.

PassLogic provides tokenless one-time password authentication for Single Sign-On to on-permises services and cloud services. ID synchronization with LDAP and Active Directory can be performed. Fine-grained access controls can be implemented to ensure that users' permissions match their job functions and level of authority.







Our workforce has become more mobile.

Forgotten password requests have been reduced.

No browser setup required - easy operation and maintenance. Token management tasks have been eliminated.

We were able to achieve single sign-on for a wide range of resources and services.

- Number of licenses issued: 1,330,000 IDs (Confirmed: March 2021)
- Patent Information
  - ~World-class PassLogic Authentication~

PassLogic is the first authentication system in the world to create a password by extracting it from a random number table. The US patent was obtained in 2000. 101 related patents in 29 countries have been obtained since then (Confirmed: May 2021).

<sup>\*</sup>The product uses the following patents in the United States and Japan: U.S.PAT.6141751 / JP.PAT.5276658 / U.S.PAT.8140854 / JP.PAT.3809441 \*Use of the product without the permission of the patent holder constitutes patent infringement; this includes end-user use after purchasing from an unauthorized third party and in-house development uses.

To date (June 2021), Passlogy has not licensed patents from other companies (this does not include Passlogy's use of services such as cloud services).

<sup>\*</sup>These comments are taken from a survey, which was conducted in January and February of 2015.



# Achieve One-Time Password Authentication Without Tokens





A user only needs to remember one thing: their secret pattern. The user's password is the sequence of numbers in the random number table that corresponds to their secret pattern.

Since the random number table is refreshed every time a user goes to log in, the password will be new for each login.

#### A Partie

#### PASSLOGIC AUTHENTICATION EXPLAINED

#### ■ Creating a Secret Pattern

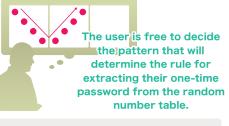
The user creates a secret pattern by selecting a sequence of cells from a grid.

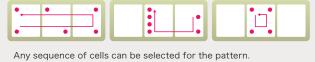


Password **07868619** 

#### Password Generation Rules

Users can choose any sequence of cells from the grid when creating their secret patterns.





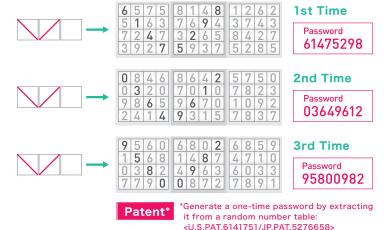
#### ■ Authentication Method

The random number table is displayed at login. The user extracts the sequence of numbers from the table that corresponds to his or her secret pattern. The user then enters this sequence into the password field and clicks the Login button.

► Random Number Table Screen



Since the random number table is refreshed every time a user goes to log in, the password will be new for each login.



#### ■ Optional Fixed Password Component

The password can be strengthened by prepending or appending a static set of characters to it.

▶ In this example, "PassLogic" is appended to the password that corresponds to the secret pattern.



·Password extracted from the random number table.



Fixed Password Component



Password 2639247PassLogic

# **AUTHENTICATION FUNCTIONS**



#### **AUTHENTICATION TO THE INTERNAL NETWORK**

Irrespective of the location of the service being accessed (internal or external) or the terminal being used (PC, smartphone or tablet) authentication can be performed in a standard browser.



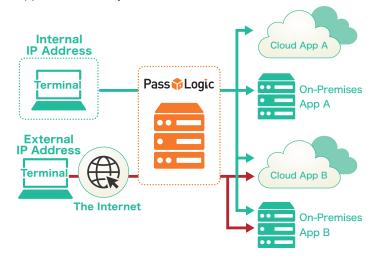


#### **■Supported Browsers**

- ●Internet Explorer 11 ●Edge ●Mozilla Firefox ●Google Chrome
- Safari
   Android Standard browser

# IP ADDRESS RESTRICTION

IP access restrictions can be used to control access to applications and systems.





#### AUTHENTICATION FOR WINDOWS LOGON: PASSLOGIC FOR WINDOWS DESKTOPS

PassLogic can be used as the authentication method for logging on to a Windows computer (starting the device and signing in to a Windows account). The PassLogic method can replace the standard fixed password authentication method for Windows Logon with dynamic passwords.





- Authentication can be pertorned offline.
- •Two-Step Verification can be achieved by combining the Active Directory password with PassLogic's dynamic passwords.

#### **■**Supported Windows OS

- Windows 8.1 32bit/64bit Windows 10 32bit/64bit
- Windows Server 2016



# INTEGRATION WITH CLIENT SOFTWARE

The PassLogic random number table can be displayed in a browser. The user can then extract his or her password from the table and enter it into the authentication screen of the client software.

#### Random Number Table in Browser + Authentication Screen



#### Supported Client Software Includes:

- Windows Standard Client
- VMware Horizon View Client
- Cisco ASA AnyConnect FortiClient
- SonicWall NetExtender PaloAlto

#### Using the Passlogic API to Display the Random Number Table Inside the Authentication Screen

Management API



#### ■Overview of the PassLogic API

API Type REST XML, JSON Data Format Authentication API Tokenless OTP

Software Token (PassClip I.)

Hardware Token

\*Not compatible with Client Certificate Authentication User management (create, edit, delete, search, get user

information)

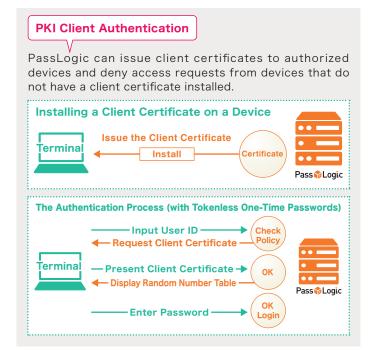
Token management (add, delete, search tokens)

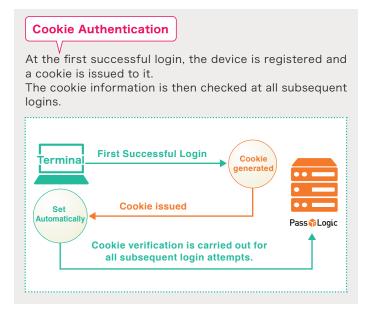




## **DEVICE AUTHENTICATION**

PassLogic can restrict access to a set of devices by performing device authentication.





# Qu

#### **SOFTWARE TOKEN**

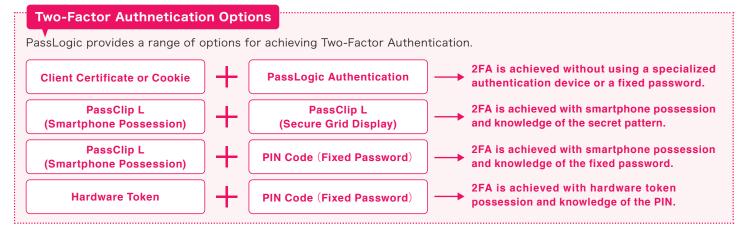
The 'PassClip L' mobile app is provided, free of charge, as a software token. The app provides two options for displaying one-time passwords: a basic display and a secure grid display. The app can be combined with a fixed password to achieve Two-Factor Authentication.



# NARDWARE TOKEN

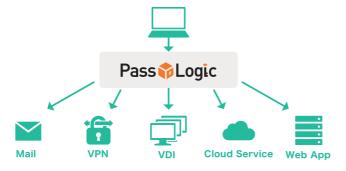
PassLogic supports the use of OATH-compliant hardware tokens. These tokens can be combined with a PIN in order to achieve Two-Factor Authentication.





# SINGLE SIGN-ON

After a successful PassLogic authentication, linked services and systems can be accessed without any additional authentication. Password management is simplified and operational efficency is improved.



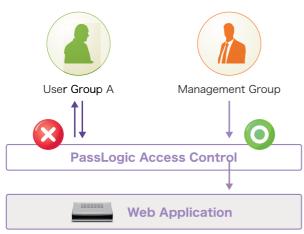
Consolidate logins to mutiple business systems into a single sign-on.

A single authentication provides authorized access to mutiple systems.

Reduce the time wasted on logins and maintain focus on work.

#### ACCESS CONTROL

PassLogic also supports group-based access controls; users can be allowed or denied access to a Web application depending on their respective group memberships.



\*If a user tries to gain access to a URL that he or she is not authhorized to access PassLogic will block the access attempt and return a 403 Forbidden message to the user

# MULTI-POLICY

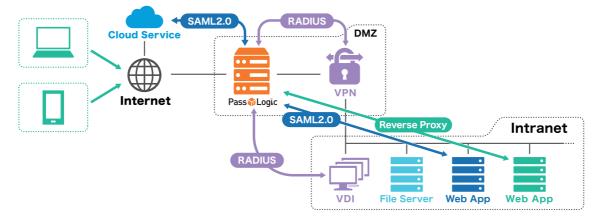
Authentication policies can be tailored to individual services and to individual users.



Adjusrable Items and Controls; Authentication Method; Password Length; Time Period When Authentication is Permitted; Pattern History Check; Forced Periodic Password Change; Prohibited Patterns; Account Lockout Threshold etc.

#### **COMPREHENSIVE INTEGRATION**

PassLogic integrates with a wide range of services, such as VPN services, VDI environments and Web applications on-premises and in the cloud. A single sign-on environment can be easily created with PassLogic.



**Supported Protocols** ● RADIUS

- SAML 2.0

- REST API
- Reverse Proxy

A single policy can be applied to all systems.

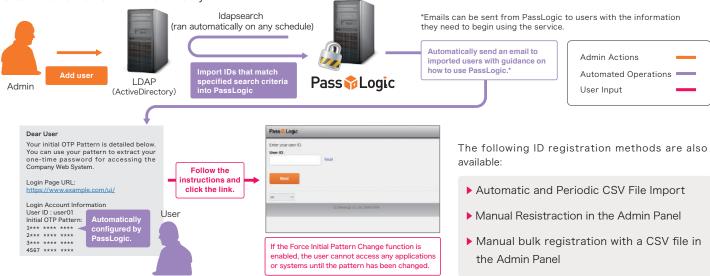


# **OPERATION AND MANAGEMENT FUNCTIONS**



#### Automatic Registration of Users from LDAP (Active Directory)

PassLogic can be set to check LDAP (Active Directory) periodically and to update its User Information accordingly. Newly registered users are sent notification emails automatically.





#### **AUTOMATED USER SUPPORT**

The admin workload can be significantly reduced with automated support for tasks such as password resets and user unlocking. These functions can also be controlled manually.





The support workload can be significantly reduced.

#### **■** Automatic Password Reset

A Self-Service Password Reset function can be enabled. An administrator password reset function is also provided.



#### **■** Automatic Unlocking

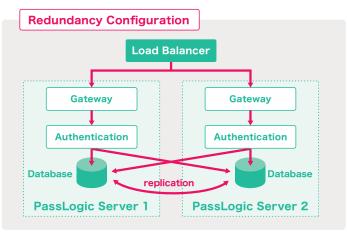
An automatic unlocking function is provided. This can be set to unlock a user who has been locked out due to a number of consecutive failed login attempts after a specified period of time. A manual unlocking function is also provided for administrators.

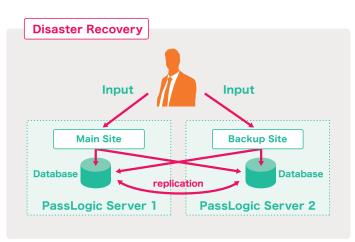




#### SUPPORT FOR REDUNDANCY AND DISASTER RECOVERY MEASURES

The data replication function





<sup>\*</sup>The gateway can be separated from the authentication functions with a split-server configuration.

#### **System Requirements**

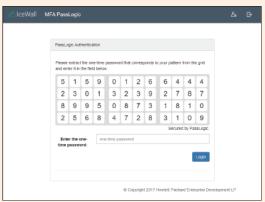
Server OS	Red Hat Enterprise Linux 8.3 or later or CentOS 8.3 or later x86_64 *2
httpd *1	Apache HTTP Server Version: 2.4.37 or later Release: 21.module_el8.2.0
php *1	Version : 7.4.6 or later Release : release: 4.module_el8.3.0

<sup>\*1</sup> Only OS vendor-supplied modules are supported.

## PASSLOGIC IN THE EDUCATION SECTOR

PassLogic has been widely adopted in the education sector. The institutions which have adopted PassLogic include a number of leading Japanese universities, world-renowned research facilities and governmental education boards.

PassLogic has been successfully integrated with SSO services which work with Shibboleth, such as OpenAM (OSS Tech) and HPE IceWall.



PassLogic integration with HPE IceWall MFA

#### **Company Profile**

**Company Name** 

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\*Closed on Saturdays, Sundays and holidays

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IS 697637 / ISO 27001

#### **Main Clients**

ITOCHU Techno-Solutions Corporation

Internet Initiative Japan Inc. NTT PC Communications Inc.

Serverworks Inc.

CTC System Management Corporation

**NS Solutions Corporation** 

SoftBank Corp. SB C&S Corp.

TIS Inc.

DIS Solution Co., Ltd.

**NEC Corporation** 

Japan Business Systems Co., Ltd.

**Networld Corporation** 

Fujitsu Limited

Universal Computer System Co., Ltd.



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<sup>\*2</sup> Security-Enhanced Linux (SELinux) is not supported and must be disabled.

XVirtualization is possible where the guest OS is supported.