



Flex Work Place Passage Drive

Yokogawa Rental & Lease Corporation

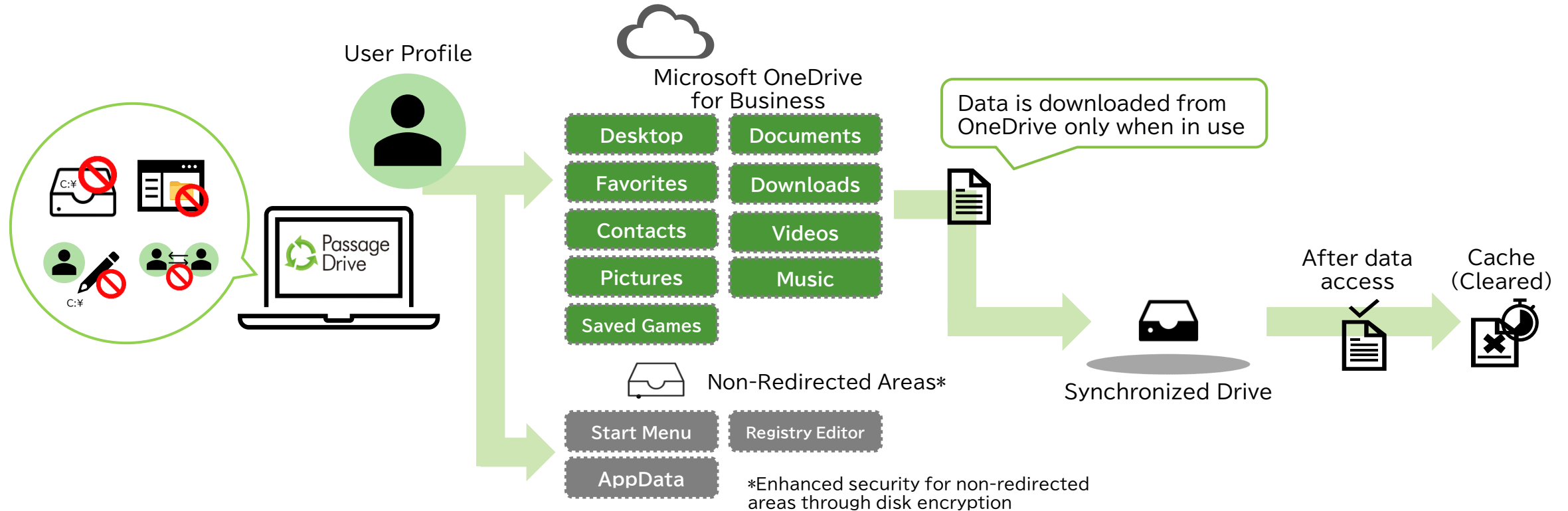
Flex Work Place

INDEX

- Company Introduction
- Flex Work Place Passage Drive Overview
- Architecture Image & Implementation Flowchart

Flex Work Place Passage Drive Overview

Flex Work Place Passage Drive Overview



Functional Restrictions

- Local Drive is hidden
- Inaccessible through file explorer
- Write access restricted to the user profile
- User account switching

Data Management

- Automatically save user profile data
- Minimize data storage on local drives
- Automatically delete downloaded cache after use

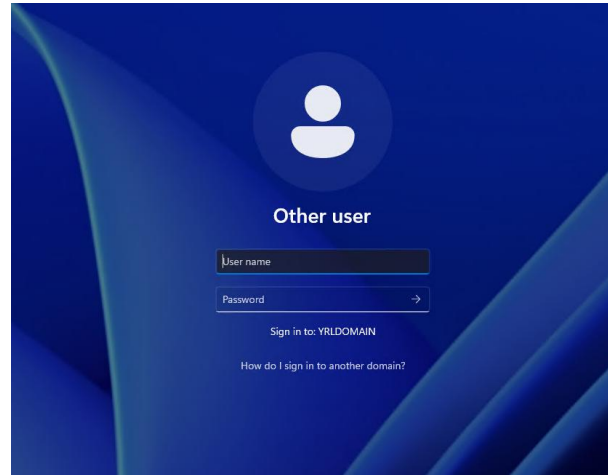
Synchronized Drive

While standard OneDrive synchronization retains cached data, Passage Drive reduces data retention risks through periodic cache deletion

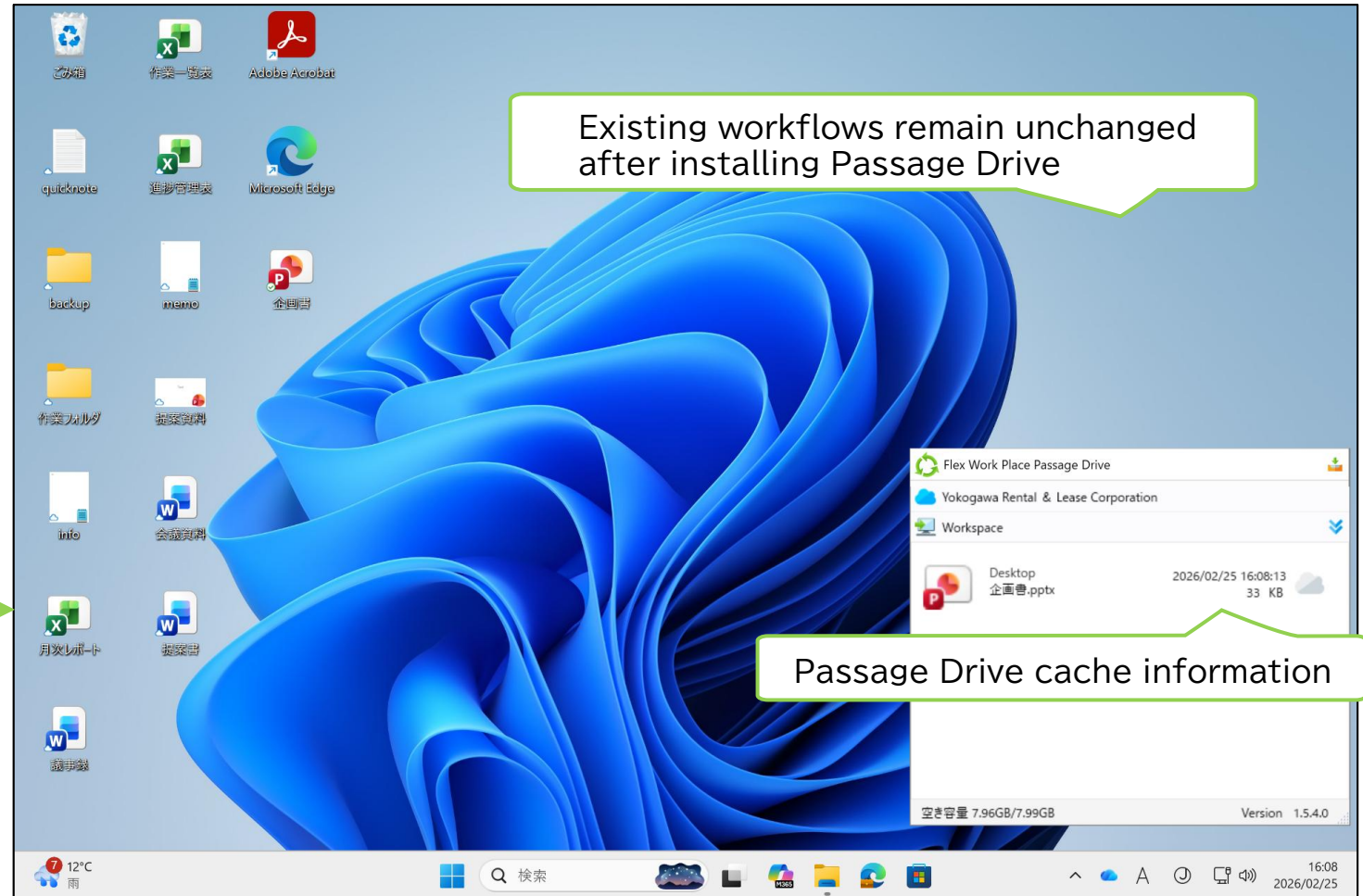
*By default, write access to the C: drive is restricted.
[C:¥Windows, C:¥ProgramData, C:¥Users is excluded]

Flex Work Place Passage Drive Overview

Fundamental Windows operations remain unchanged post-installation

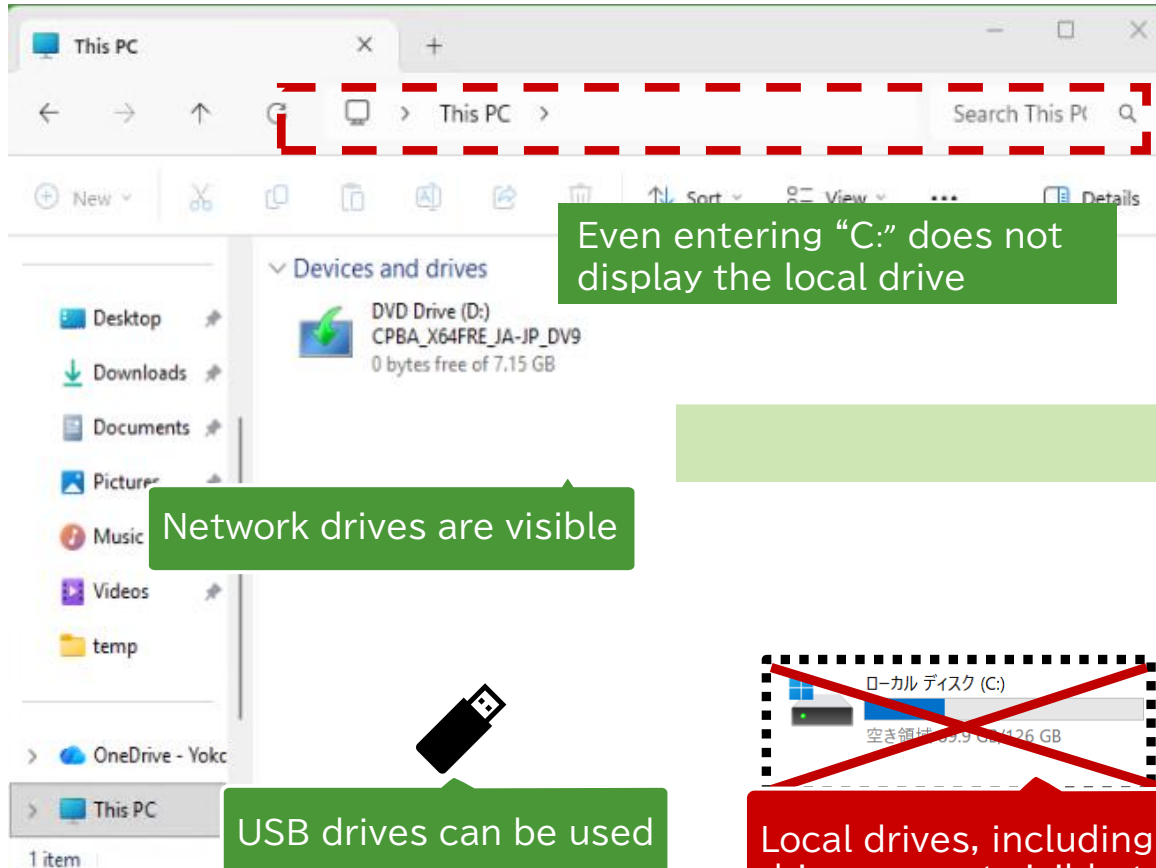


User
Sign-In



Flex Work Place Passage Drive Overview

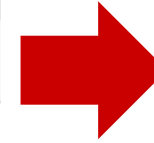
Passage Drive provides control over the local drive of user data.



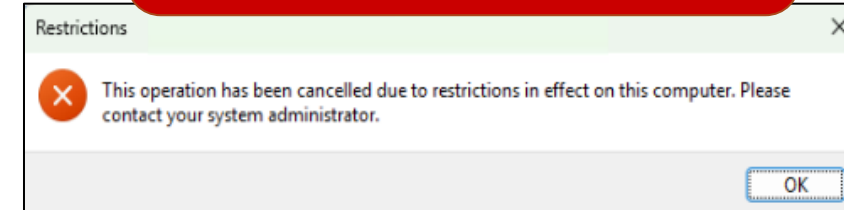
Even entering "C:" does not display the local drive

Network drives are visible

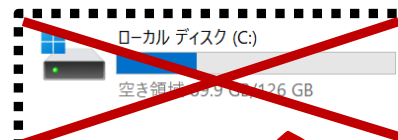
USB drives can be used



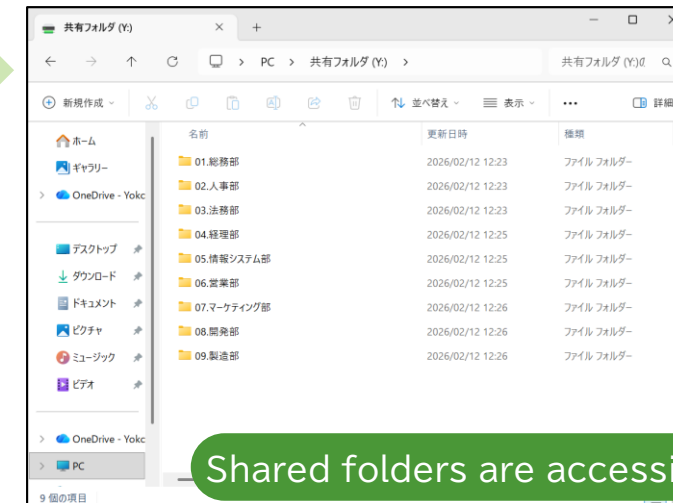
No Access through File Explorer



*If the local drive is selected as the cache data storage location, access to the C: drive cannot be restricted and will remain enabled.

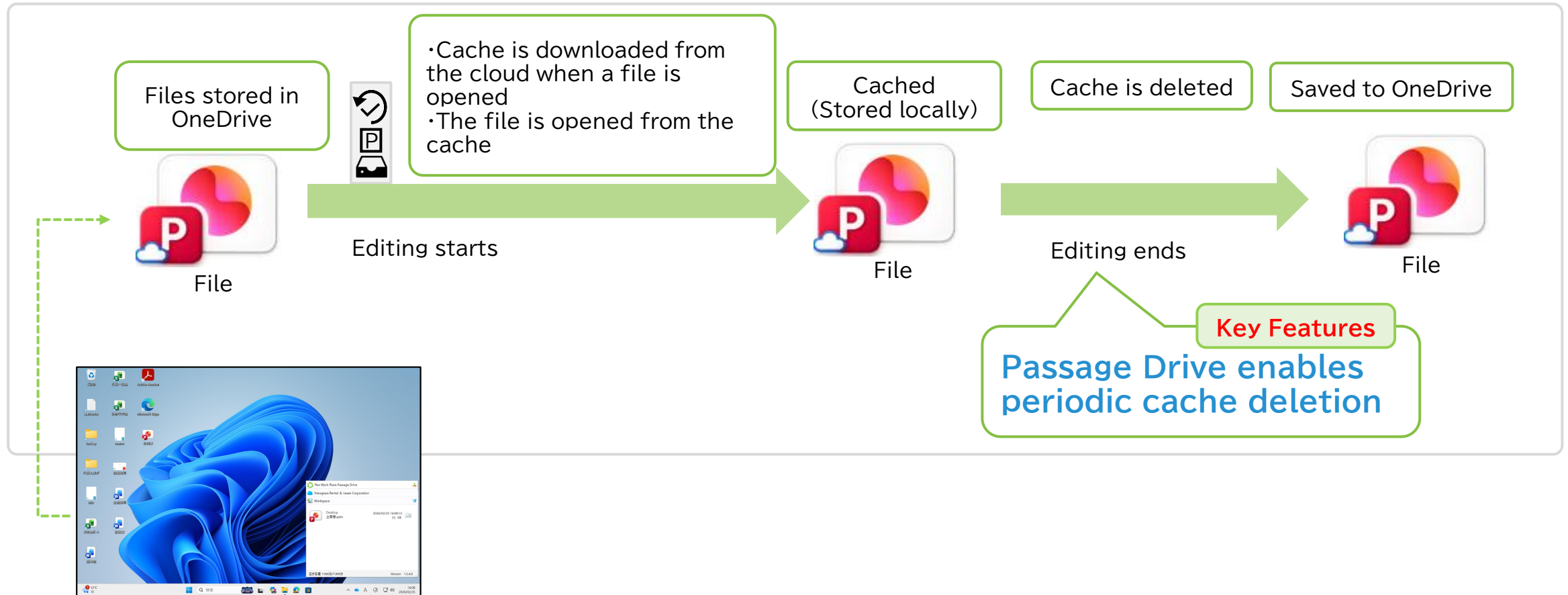


Local drives, including the C: drive, are not visible to use



Shared folders are accessible

File Operations & Automatic Cache Deletion with Passage Drive



Passage Drive Use Case 1: Lost/Stolen PC Data Protection

Passage Drive stores PC data on a cloud storage rather than the local PC, allowing information assets to be retained in the event of PC loss or theft.

Client Concern

- Data security risks associated with lost PCs

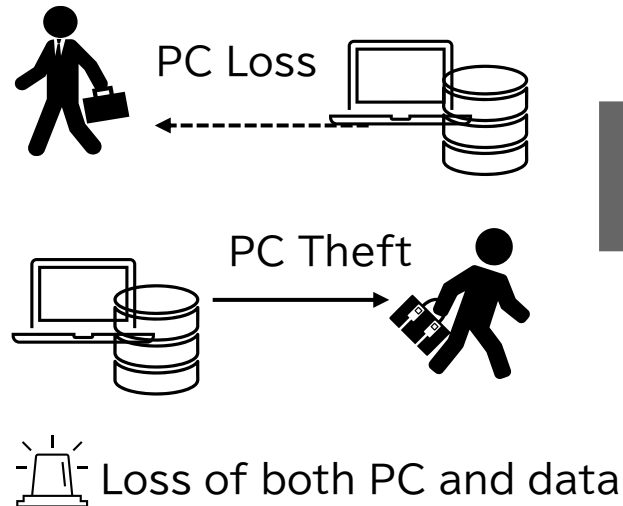
Usage Scenario

- Centralized data management
- Minimize local storage on PCs

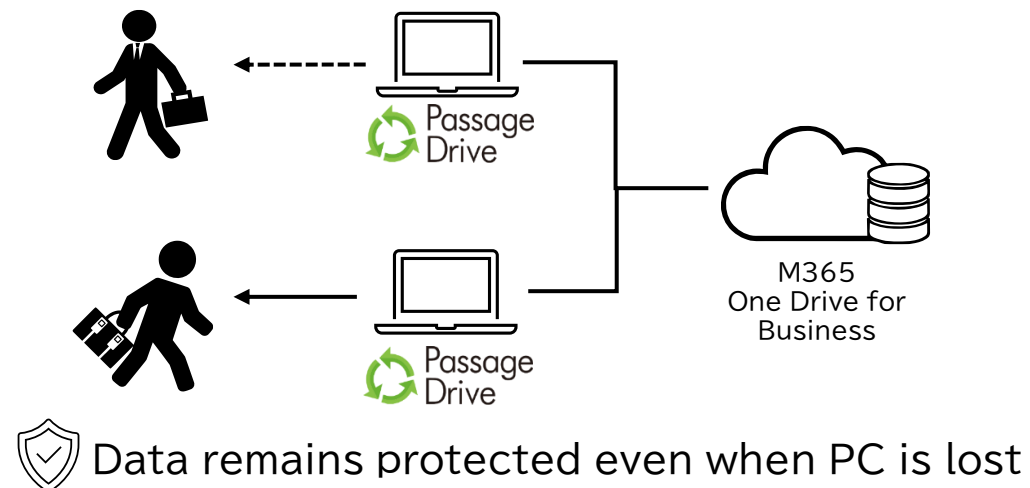
Achieved Benefits

- Reduced risk of data leakage
- Enhanced security

Before



After



Passage Drive Use Case 2: Simplified Data Migration

Save your data on a cloud storage to facilitate data migration during PC replacement.

Client Concern

- Time and effort required for data migration during PC replacement/failure

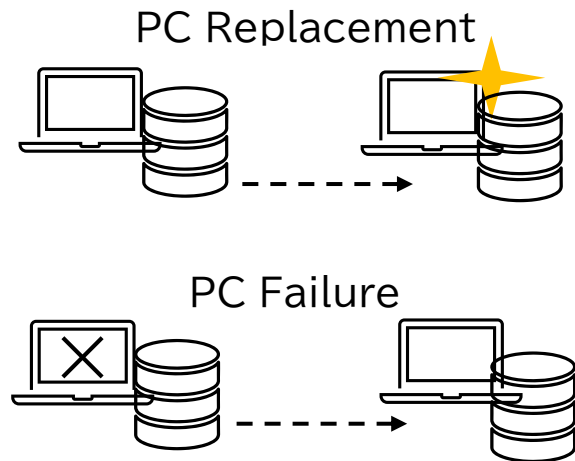
Usage Scenario

- Cloud-based data protection & management

Achieved Benefits

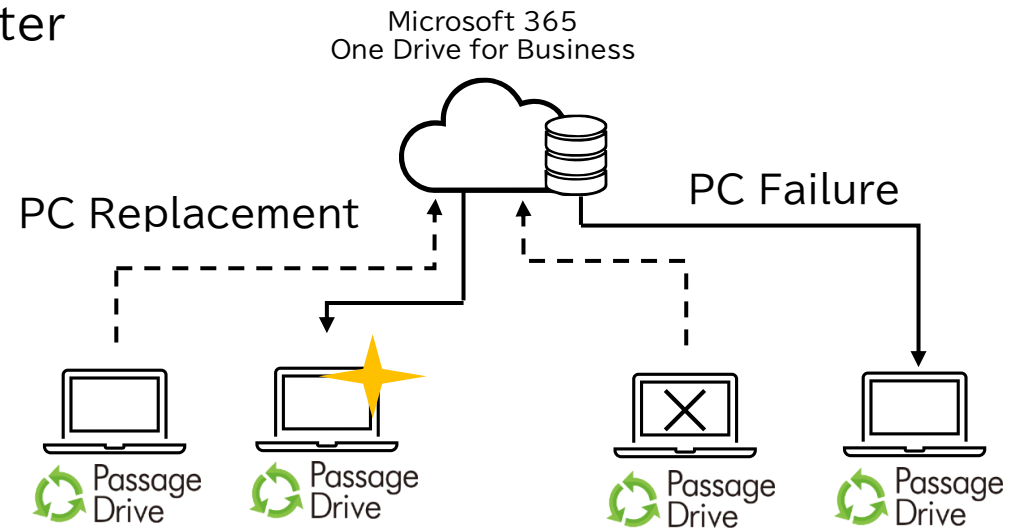
- Reduced PC provisioning costs
- Faster PC deployment

Before



Backup → Copying → Verification

After



Simply setup the PC and log in

Passage Drive Use Case 3: VDI Alternative

Achieve VDI-like security without sacrificing the convenience of physical PCs by realizing a system that keeps data off the device with Passage Drive.

Client Concern

- High VDI costs
- VDI operational burden

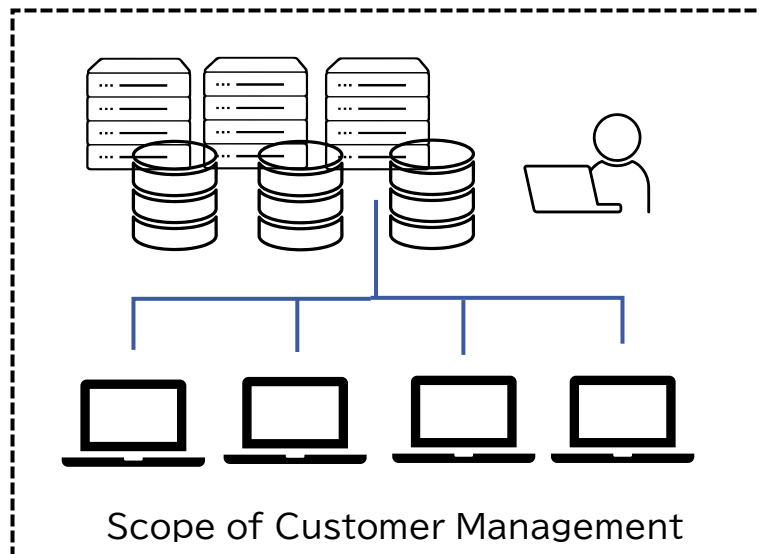
Usage Scenario

- Simple PC + Passage Drive architecture

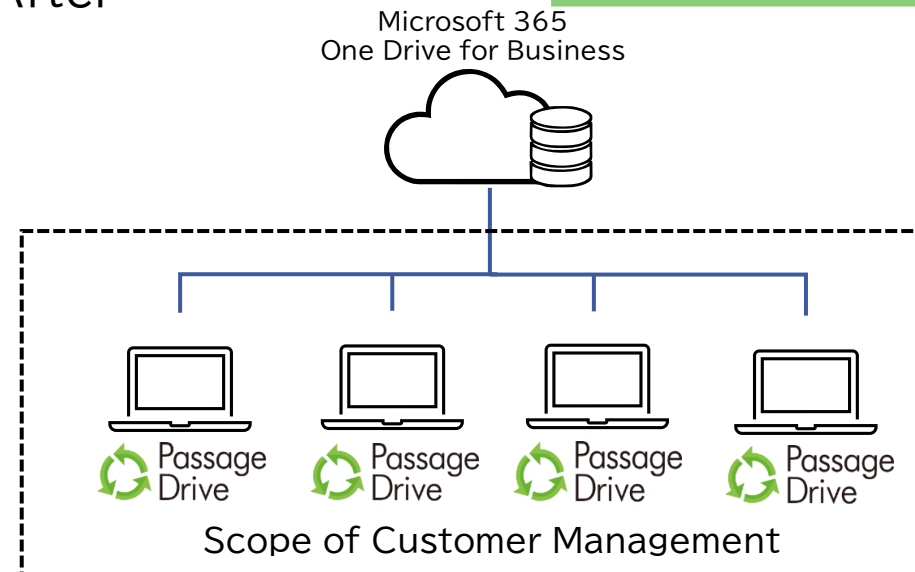
Achieved Benefits

- Lower costs than VDI
- VDI-like data protection
- PC free of local data
- Reducing IT administration operational workload
- Improved performance for web meetings
- Ability to edit files offline

Before



After



Passage Drive Use Case 4: AI Utilization Platform

The integration of Copilot and other generative AI with consolidated business data allows organizations to transform locally held information into corporate assets.

Client Concern

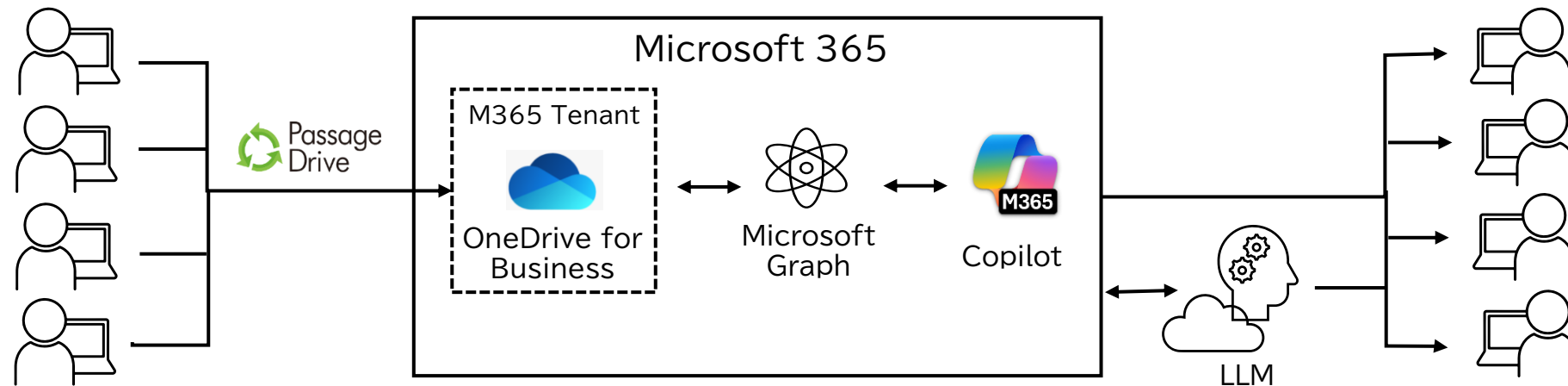
- Data limited to individual PCs
- Limited adoption of AI across the organization

Usage Scenario

- Centralize data with Passage Drive
- Analyze data with Copilot or other AI

Achieved Benefits

- Transform local data into organizational knowledge
- Promote AI usage within the company

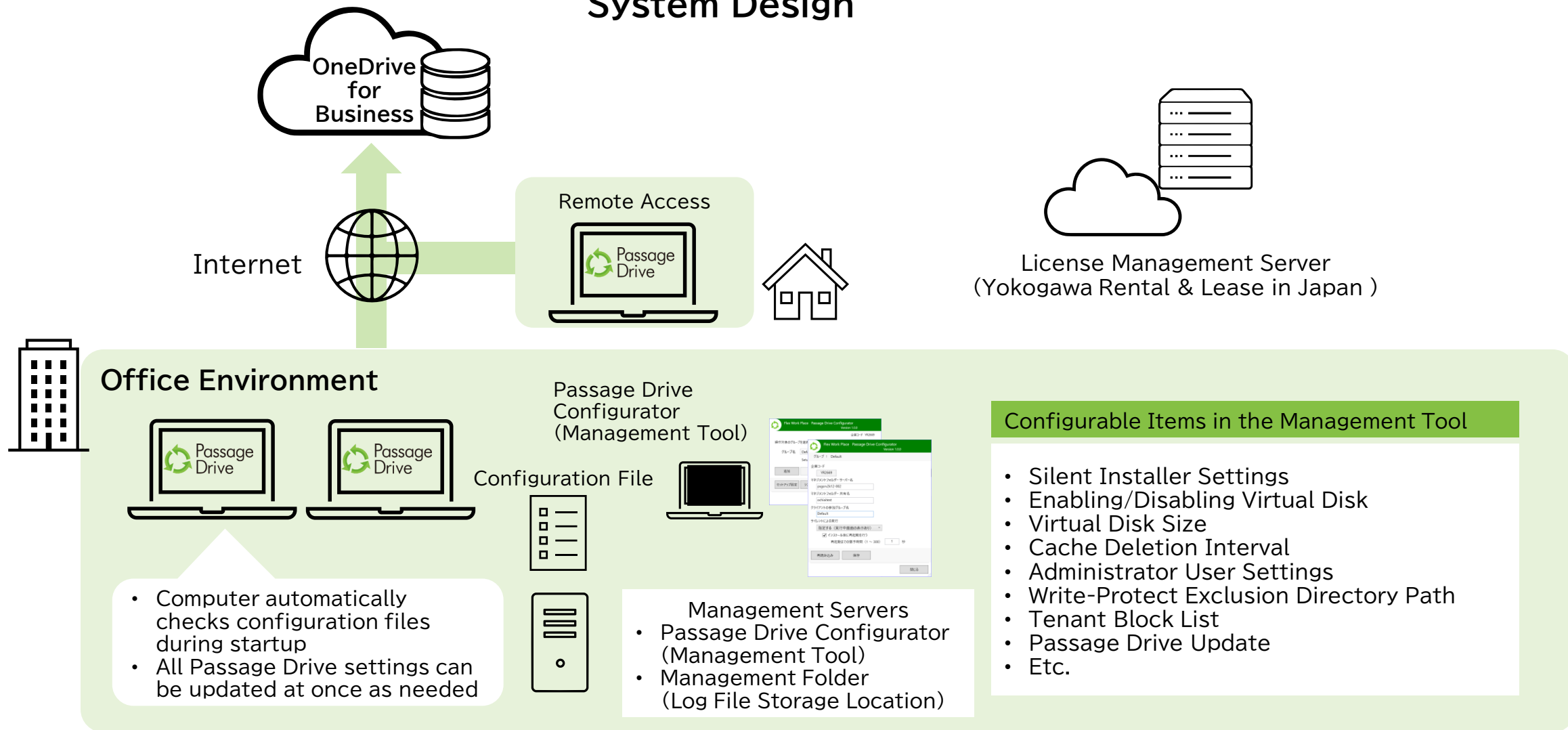


Passage Drive extends the capabilities of OneDrive synchronization to enable a truly data-less local PC environment with added tools and features. The following table outlines the differences between the two services.

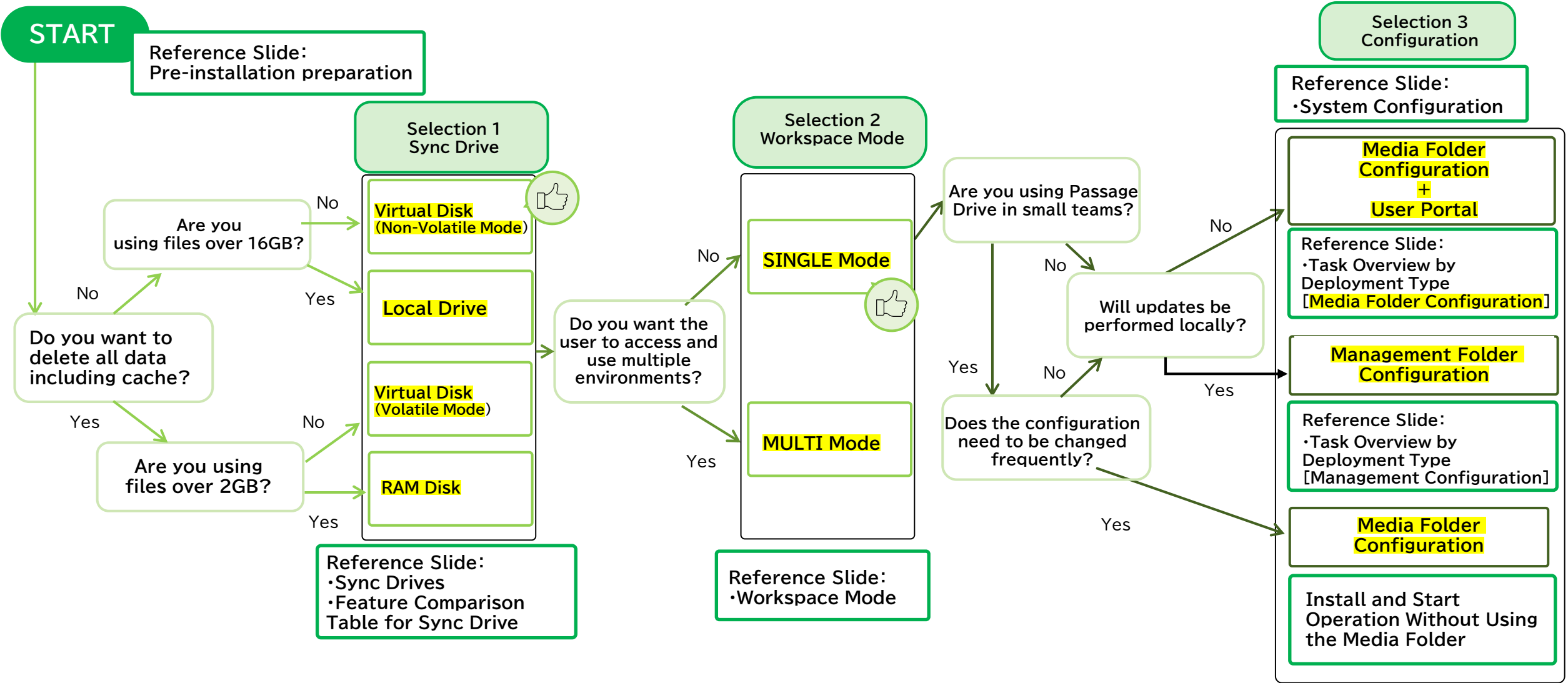
Feature	OneDrive	Passage Drive
Local File Storage	Allowed	Controlled
C Drive Access	Unsupported	Supported
Local Data-less Operation	Challenging	Supported
Local Cache	Retained	Cleared
Profile Data Capacity Control	Unavailable	Available

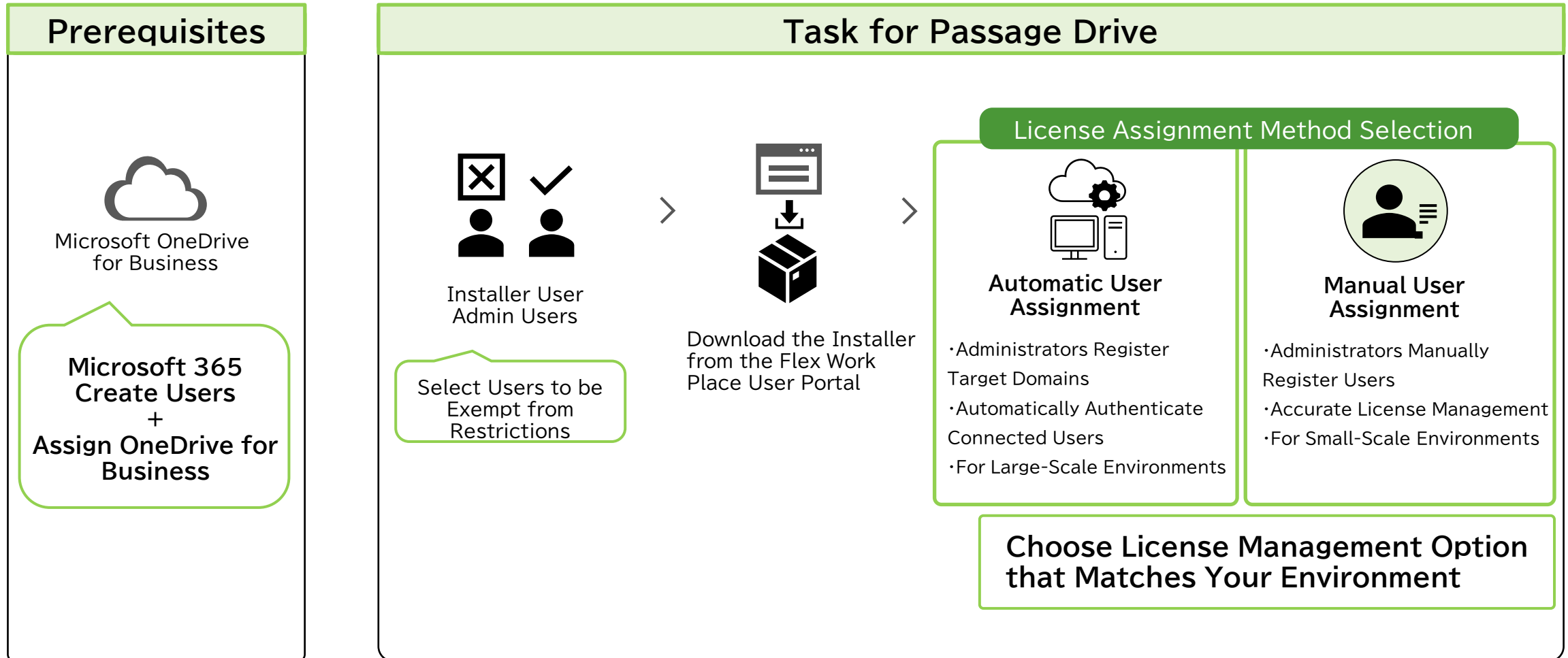
Architecture Image & Implementation Flowchart

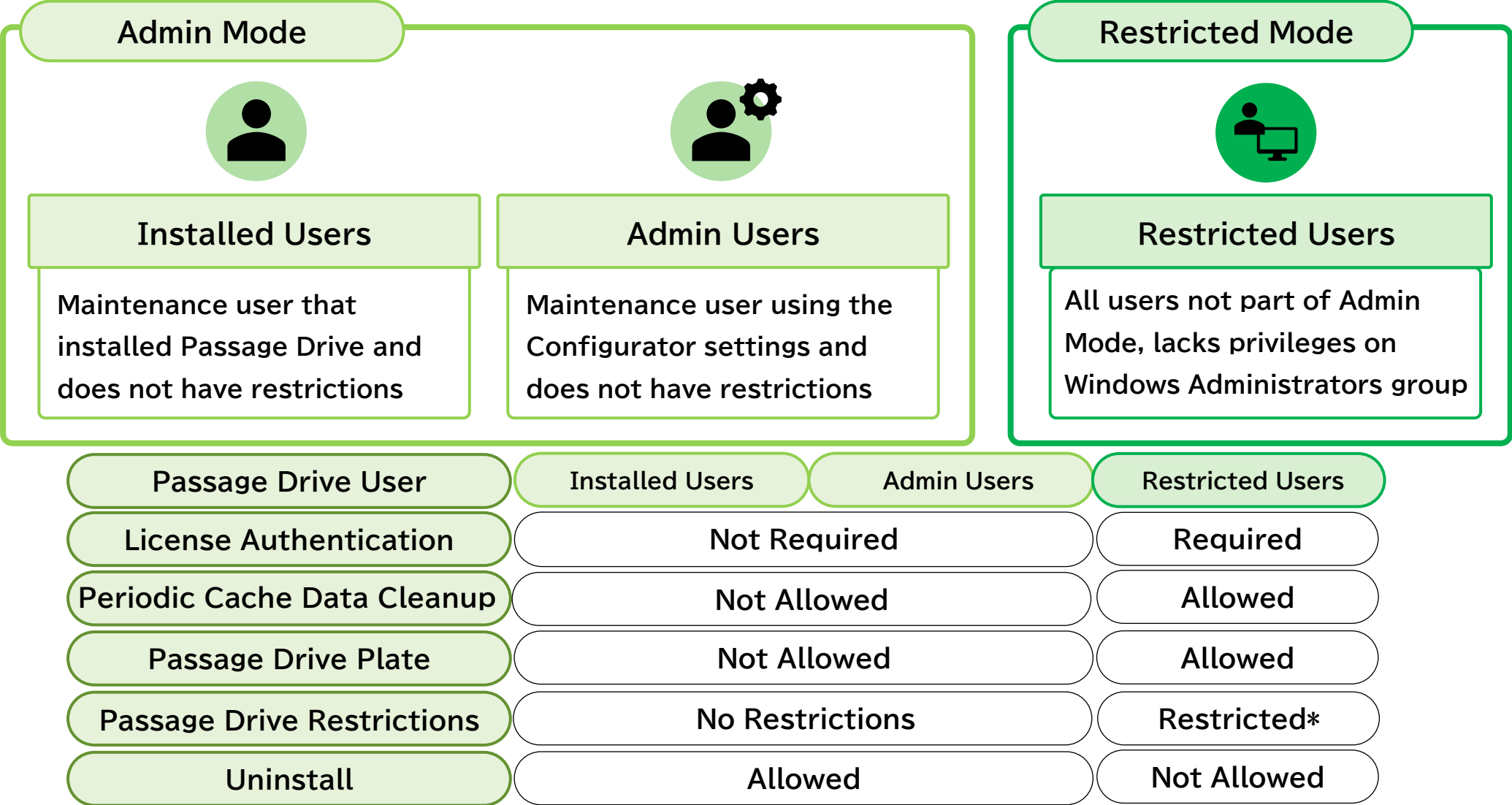
System Design



Implementation Flowchart







*If settings are modified individually, the restrictions will not be applied. Note that the system drive

 **Recommended!**

Data Protection Prioritization

Local Drive

Virtual Disk
(Non-Volatile Mode)

- All data unsynchronized to OneDrive is **retained** upon shutdown or logoff
- Startup time is comparable to a standard PC



Select a Sync Drive

Data Deletion Prioritization

Virtual Disk
(Volatile Mode)

RAM Disk*

- All data unsynchronized to OneDrive is **deleted** upon shutdown or logoff
- Data synchronization is performed upon every instance of system startup and login. The more files stored in the PC, the longer this process will take.

*This configuration creates a sync drive on the PC's system memory. Therefore, a PC with sufficient memory is recommended.

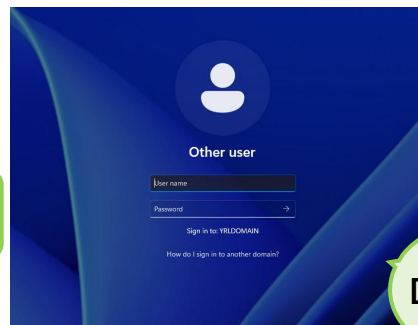
Feature Comparison Table for Sync Drive

Cache Storage Location Options	Data protection Prioritization		Data Deletion Prioritization	
	Virtual Disk (Non-Volatile Mode)	Local Drive	Virtual Disk (Non-Volatile Mode)	RAM Disk
Configurable Capacity	1,024 ~16,384MB	Free space on C:drive	1,024 ~16,384MB	64MB~2,048MB (Depends on RAM capacity)
Cached Data (Synced)	Deleted after a set period of time			
Cached Data (Not Synced)	While Signed In	Remain		
	Sign-Out / Shutdown	Remained	Deleted	
Local Drive Concealment	Available			
File Explorer Access Restriction	Available	Not Available	Available	

Single Workspace Mode

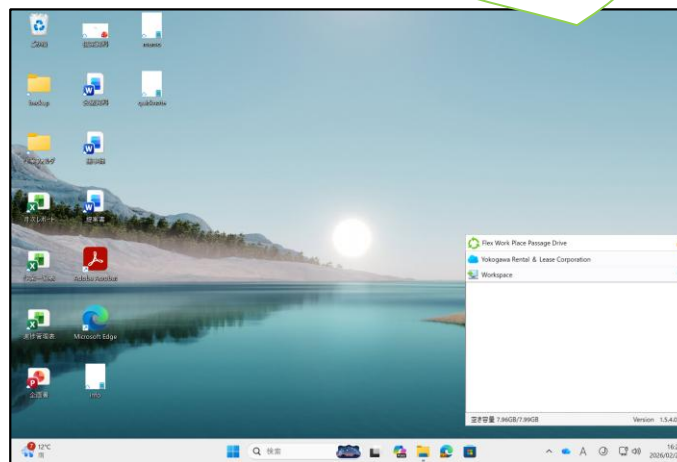
Point

Basic Mode



Default

The user's desktop launches normally, just like a standard Windows PC



Work Space Mode

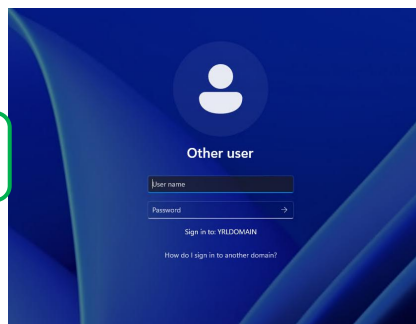
Single Workspace (Recommended)
Standard Configuration

Multi Workspace
Designed for:

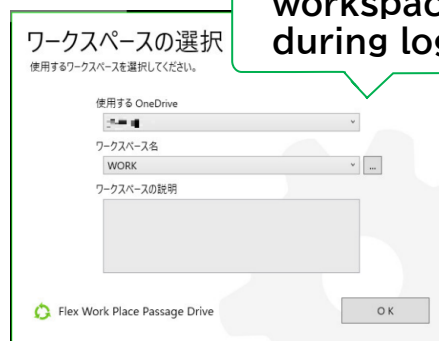
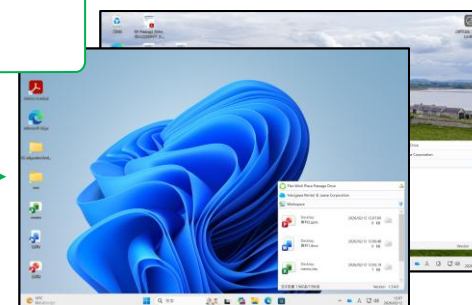
- Concurrent Use
- Specialized Operations
- Environment Isolation

Multi Workspace Mode

If Needed



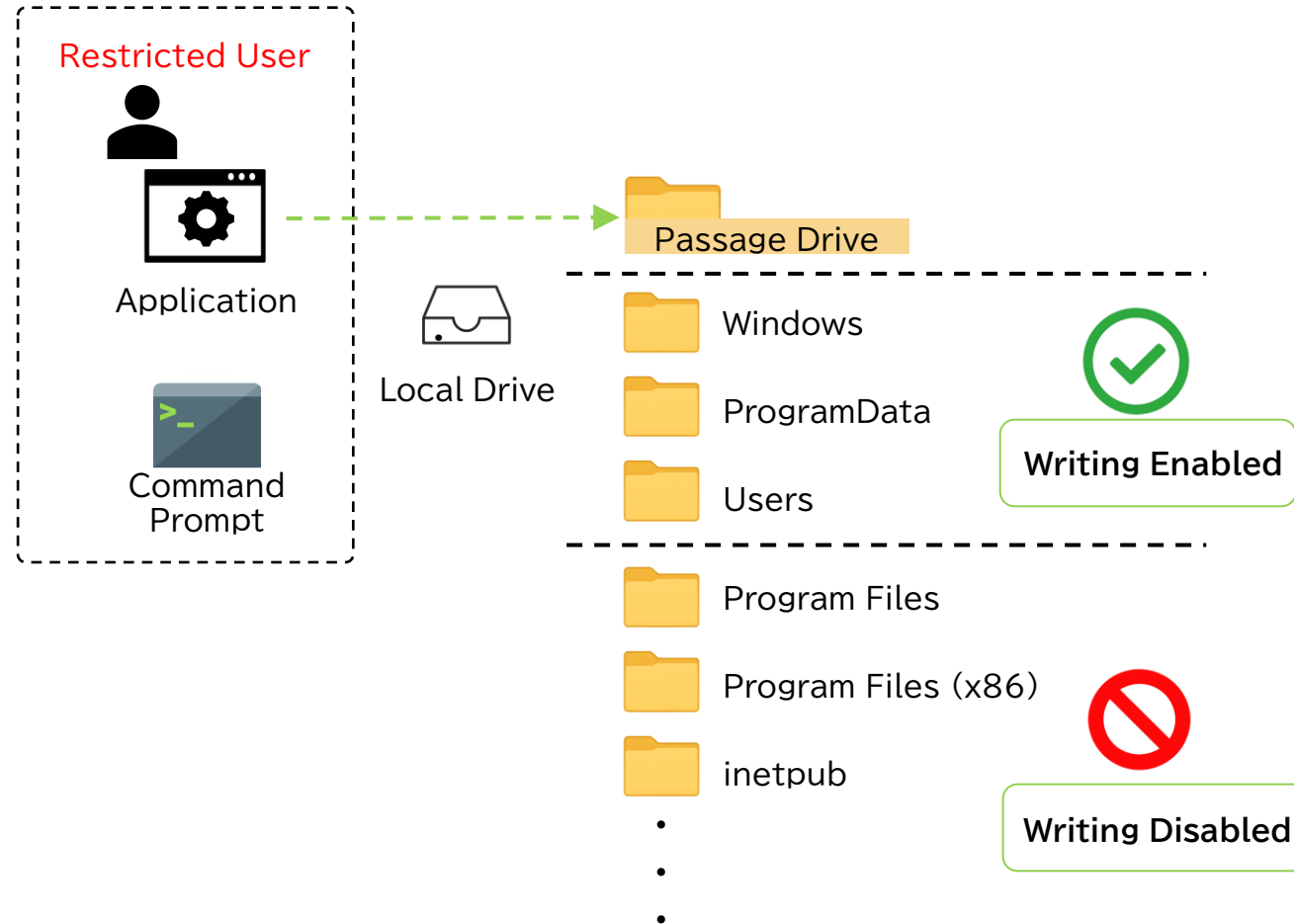
A screen to select the workspace is displayed during login



Point

Only the selected workspace will be displayed from multiple environments

Block Writing to Local Drive by Applications



Restricted users cannot create files outside designated writable areas.

Does not store Data 👍

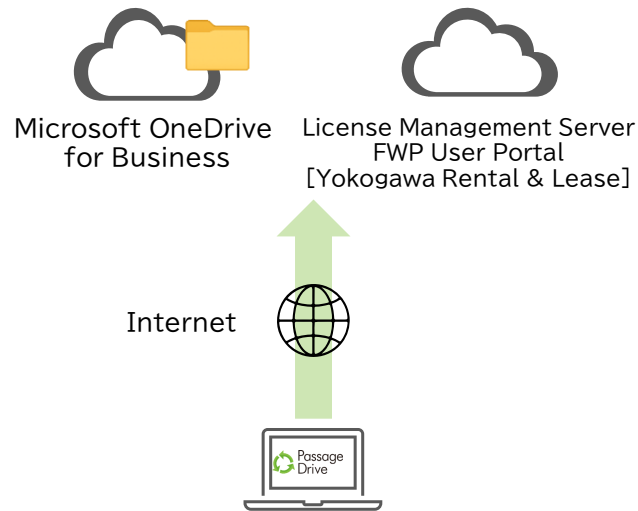
Directory restrictions can be configured as needed*

Write-protected exclude path

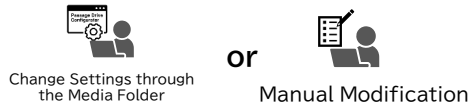
C:\Program Files\DotCoE
C:\Program Files\DotCOE_SPOOL

* Writing to the path will not be available without Windows permissions, even if directory exclusion settings are applied.

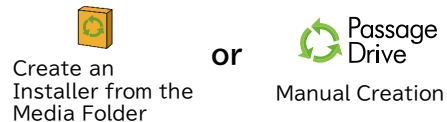
Media Folder Configuration



Change Settings Method

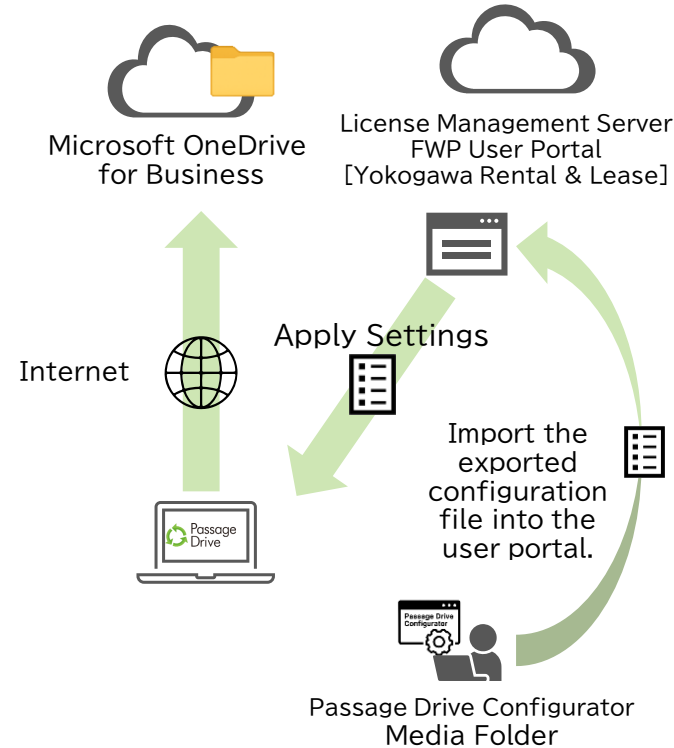


Installation Method



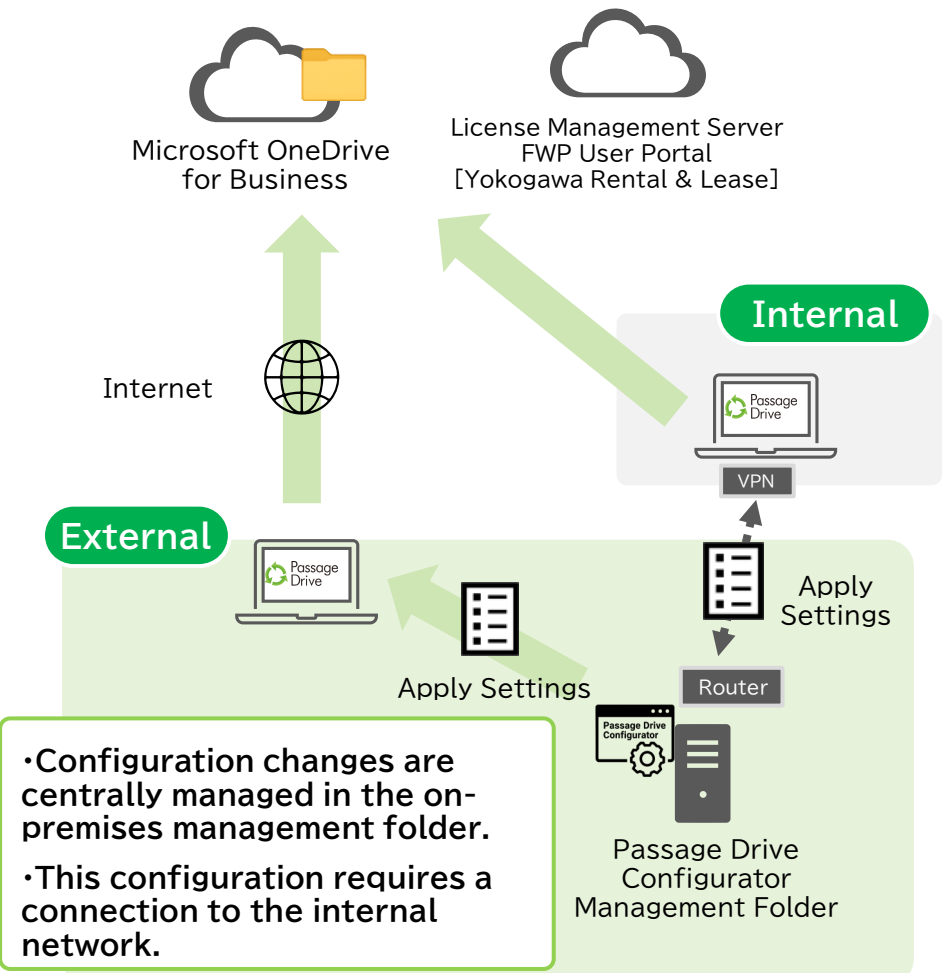
- Available with Minimal Configuration
- Installation and configuration are managed manually.

Media Folder Configuration + User Portal Management

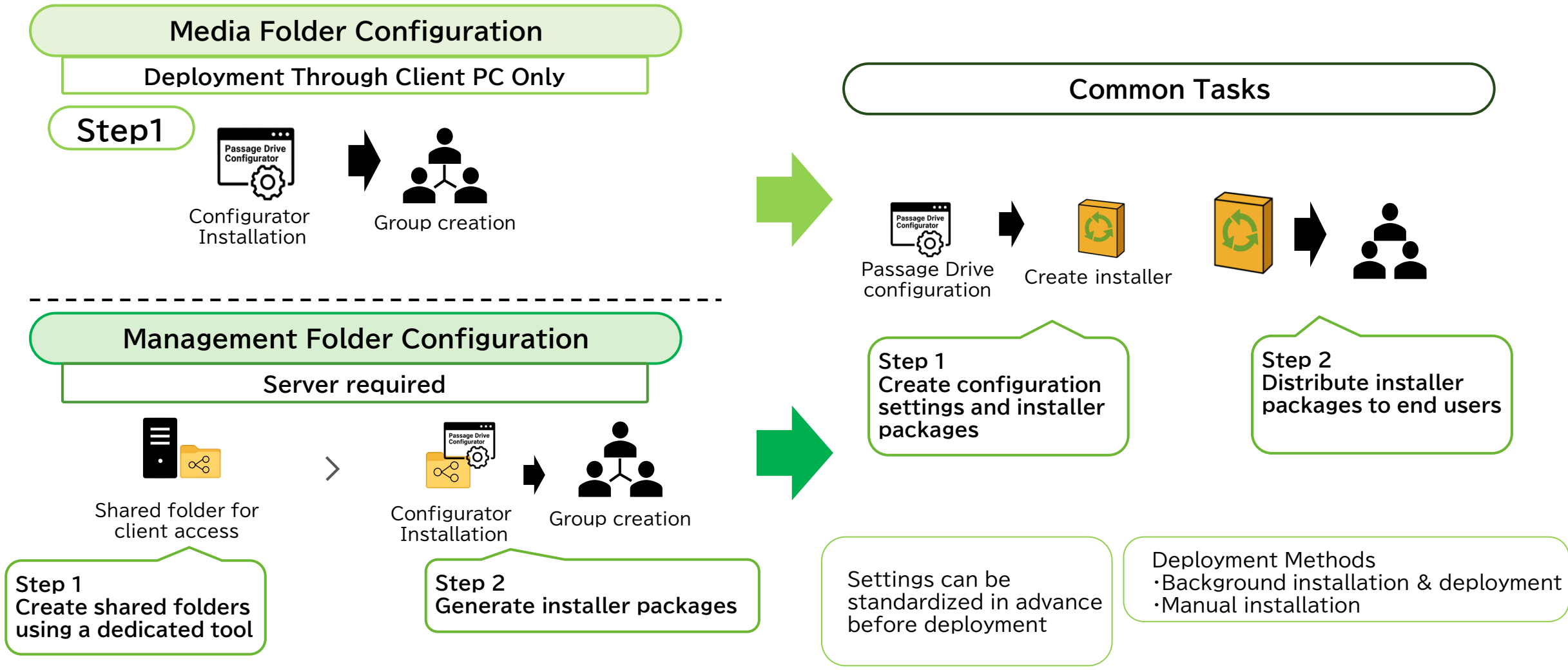


- Accessible from anywhere with an internet connection.
- Configuration changes are made through the user portal.

Management Folder Configuration



Task Overview by Deployment Type



Data Migration on Current PC

【Data migration】



Microsoft OneDrive
for Business



Data Upload

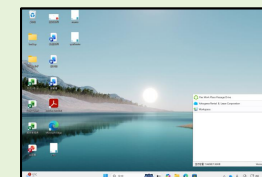
Step 1
Data Migration through
Migration Tools

Can be deployed in Conjunction with PC Replacement

→ Providing a computer with Passage Drive pre-installed enables immediate use



Passage Drive installed

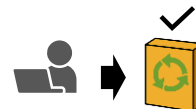


Passage
Drive

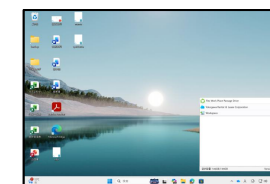
Step 2
New Device Delivery

Step 3
User Sign-In to Get Started

Setup on PC Currently in Use → **Administrator Operation Required**



Install Passage Drive as an Administrator

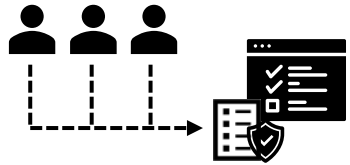


Passage
Drive

Step 2
Passage Drive Installation

Step 3
User Sign-In to Get Started

1. License Management



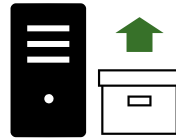
Flex Work Place Portal Site
Enables License Management

Flexible to Workforce Changes

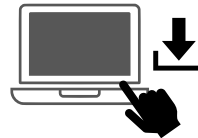
2. Update Management

Update
Methods

①Updates from
Management
Server



②Online Update
(Manual)



③Online Update
(Automatic)



Manual and Automated Operation Options

- Manual: Allows users to apply changes at their preferred timing
- Automatic: Automatically applied after download

3. Configuration Management

Configuration
Methods

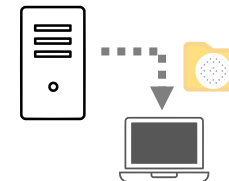
Configuration
through the
Management
server



Configuration
through the Flex
Work Place User
Portal



Configuration
through the
distribution tool



Manual
Configuration



Enables remote configuration changes

Administrators can
access the system
from anywhere

Passage Drive Configurator

Flex Work Place Passage Drive Configurator
Version 1.5.4

Module version: 1.5.4.0
Setting version: 1.0.0.1
Update type: Online
Export password: no required
Comment:
Buttons: Reload, Export, Close

Configuration files
can be easily created
and edited on client
devices

Reduces on-site
operational workload

Note: A server is required when using a Management Folder Configuration.

Flex Work Place User Portal

Menu: dashboard, Contract, License management, Passage Drive, Configuration Management, version control, Media Manual, Management, Master m, Log Inform

Search Condition Settings

Passage Drive Configuration Information List

	Company Code	Company Name	Product Types	Group	Limited Version	Configuration File Version
No relevant record found						

Group Creation

Please specify the product type and configuration file.

Company Code: Please select
Product Types: Please select
configuration file: Please select the file
Key:
Buttons: Next, Cancellation

Group Editing

Product Types: Passage Drive
Group Name: Default
Limited Version: 1.5.4.0
configuration file: 1.0.2.8
Key:
Buttons: Save, Cancellation

Configuration Settings Screen (New)

Configuration Settings Screen (Edit)

Client PC System Requirements

Item	Requirements
OS	Microsoft Windows 10 Pro x86/x64 Microsoft Windows 10 Enterprise x86/x64(*1)(*3)(*4) Microsoft Windows 11 Pro x64 Microsoft Windows 11 Enterprise x64(*2)(*3)(*4)
CPU	Compliant with the server OS CPU requirements
Memory	Compliant with the server OS memory requirements(*5)
Local Drive	•100MB of free space for the Passage Drive Application •Free space equivalent to the size specified for the virtual disk sync drive (*6) •Free space that sufficiently accommodates profile data size for all users
.NET Framework	Microsoft .NET Framework 4.8.0 or higher
Network (Outbound Ports):	•FWP License Server: HTTPS (443/TCP) Management Server (if used): CIFS (445/TCP)
Domain	•Media Folder Configuration: Joining an Active Directory domain is optional •Management Folder Configuration: For centralized management, client PC must be joined to the same Active Directory domain as the server
Application	OneDrive Client: Installation and configuration must be performed individually for each user

(*1): Due to Microsoft's end of support for Windows 10, only environments applying the Extended Security Updates (ESU) are supported.

(*2): Long-Term Servicing Channel (LTSC / LTSC) editions are supported only when Microsoft provides the same OS version through the General Availability Channel.

(*3): In Enterprise editions, Device Guard must be disabled.

(*4): This product cannot be used in environments where Roaming User Profiles or Folder Redirection features are enabled.

(*5): When using a RAM disk, sufficient memory must be provisioned to accommodate the specified drive size.

(*6): This requirement applies only when using a virtual disk (volatile mode) or virtual disk (non-volatile mode).

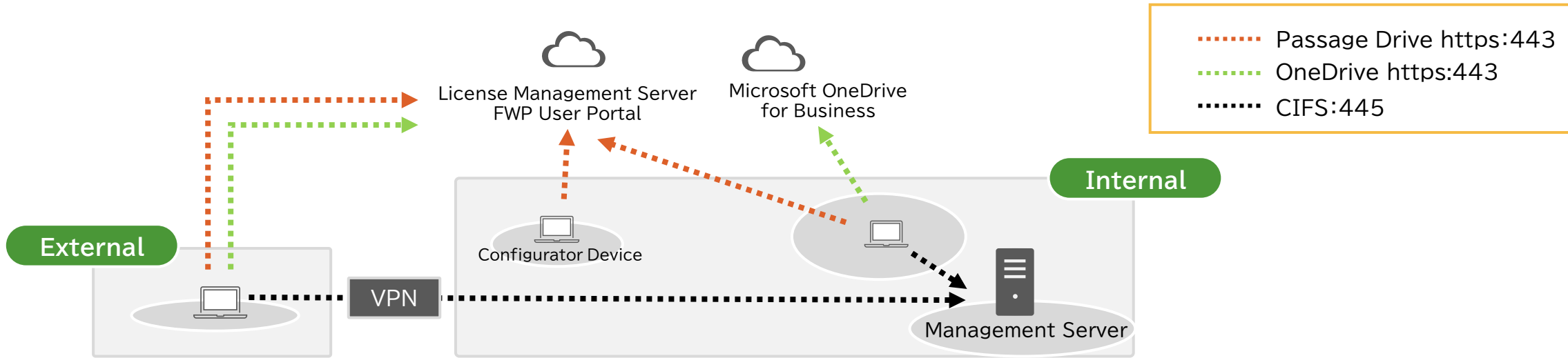
Item	Requirement
OS	Microsoft Windows Server 2016 Standard Edition Microsoft Windows Server 2019 Standard Edition Microsoft Windows Server 2022 Standard Edition Microsoft Windows Server 2025 Standard Edition
.NET Framework	Microsoft .NET Framework 4.7.1 or higher
CPU	Compliant with the server OS CPU requirements
Memory	Compliant with the server OS memory requirements
Local Drive (*1)	For Passage Drive program ・Configurator / Installer:100MB of free space
Domain	Must be on the same Active Directory domain as the Passage Drive client
Other	・ The target installation file system must be formatted as “NTFS” ・ Communication from the Passage Drive client to the management server requires an environment that supports file sharing(CIFS protocol)

(*1):The required HDD size will vary depending on the number of management groups in operation.

Passage Drive Configurator System Requirements

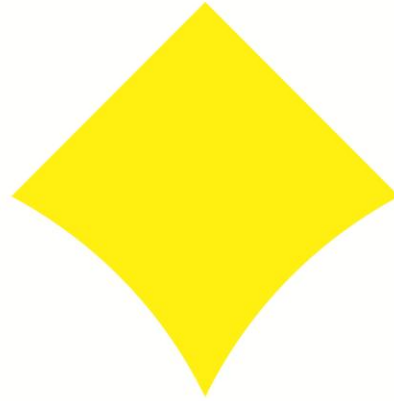
Item	Requirements
OS	Server OS: Supports Management Folder and Media Folder Configurations Microsoft Windows Server 2016 Standard Edition Microsoft Windows Server 2019 Standard Edition Microsoft Windows Server 2022 Standard Edition Microsoft Windows Server 2025 Standard Edition Client OS: Supports Media Folder Configuration Only Microsoft Windows 10 x86/x64 Microsoft Windows 11 x64
.NET Framework	Microsoft .NET Framework 4.7.1 or higher
CPU	Compliant with the server OS CPU requirements
Memory	Compliant with the server OS memory requirements
Local Drive (*1)	Passage Drive Application •Configurator / Installer: 100MB of free space
Domain	•Management Folder Must be on the same Active Directory domain as the Passage Drive client •Media Folder Configuration Joining an Active Directory domain is optional

(*1):The required drive capacity will vary depending on the number of management groups in operation.



Destination	Source	URL	Port & Protocol		Purpose
Passage Drive Client PC	Flex Work Place License Server	https://www.flexwp.yml.com/ https://flexwpapi.azurewebsites.net	443	TCP	•License Authentication •Passage Drive Online update
	Microsoft OneDrive	Compliant with Microsoft standards *1	443	TCP	•OneDrive for Business
	Management Server *2	-	445	TCP	•Uploads Device information •Supports updates through the Passage Drive Management Server
Passage Drive Configurator Device*3	Flex Work Place User Portal	https://www.flexwp.yml.com/	443	TCP	•Configuration changes through the Flex Work Place User Portal

*1:<https://learn.microsoft.com/ja-jp/microsoft-365/enterprise/urls-and-ip-address-ranges?view=o365-worldwide>
*2:This requirement is not applicable when a Management Folder Configuration is not used.
*3:Settings can be accessed and modified from a web browser on any device, provided that the configuration file and keys are available.



YOKOGAWA

Yokogawa Rental & Lease Corporation