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## **CLOUD DRIVE MAPPER**

Desktop & VDI-Integrated Cloud File Storage

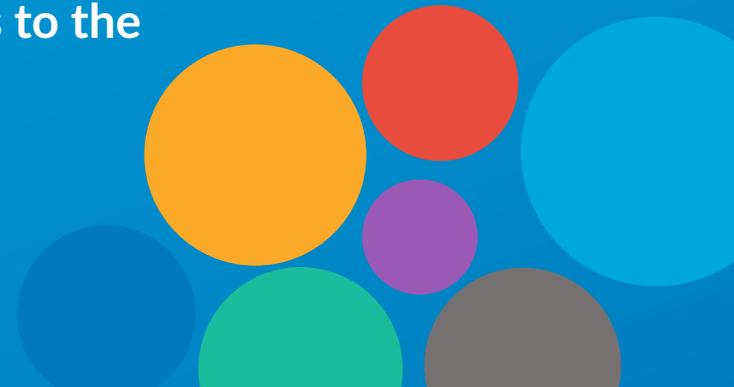
# WHAT IS CLOUD DRIVE MAPPER?

Cloud Drive Mapper integrates cloud storage into desktop computers and VDIs. It maps drive letters to OneDrive for Business, SharePoint Online, MS Teams and soon to Google Drive too.

Cloud Drive Mapper works on Windows desktop and VDI platforms, and can leverage single sign-on from a range of providers to provide a secure and seamless experience to users. Administrators can configure different drives to be enabled for different groups of users.

Most importantly, there's no file sync. There is simply direct access to the storage, just as if users were actually using network storage.

e:\ g:\



# COMMON LIMITATIONS OF CLOUD STORAGE

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Administration and provisioning is a major challenge

Changing file storage and collaboration workflows is problematic

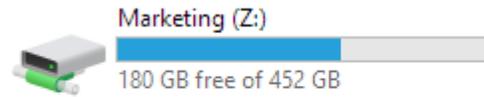
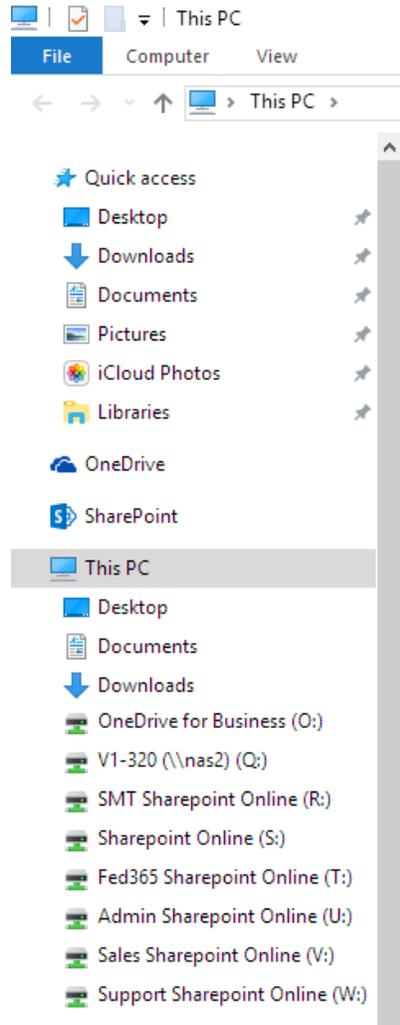
There isn't the same level of policy control as with network storage

Synchronization-based storage is not practical or appropriate for enterprise use

Cloud storage clients tend to have issues in VDI environments

Cloud storage applications are consumer-focused, and don't cater for important IT requirements like folder redirection

# CLOUD DRIVE MAPPER IN ACTION



**A MAPPED DRIVE IN A  
NORMAL WINDOW VIEW**



**ONEDRIVE FOR BUSINESS  
MAPPED AS A USER'S  
PERSONAL HOME DRIVE**

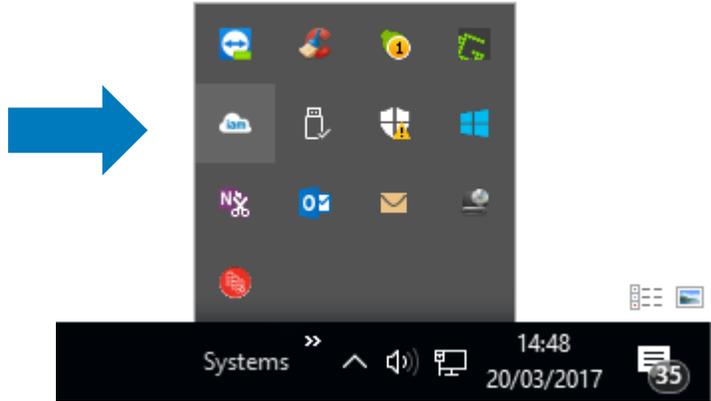


**MULTIPLE DRIVES MAPPED  
TO SHAREPOINT ONLINE  
LIBRARIES AS 'TEAM SHARES'**

# CLOUD DRIVE MAPPER IN ACTION

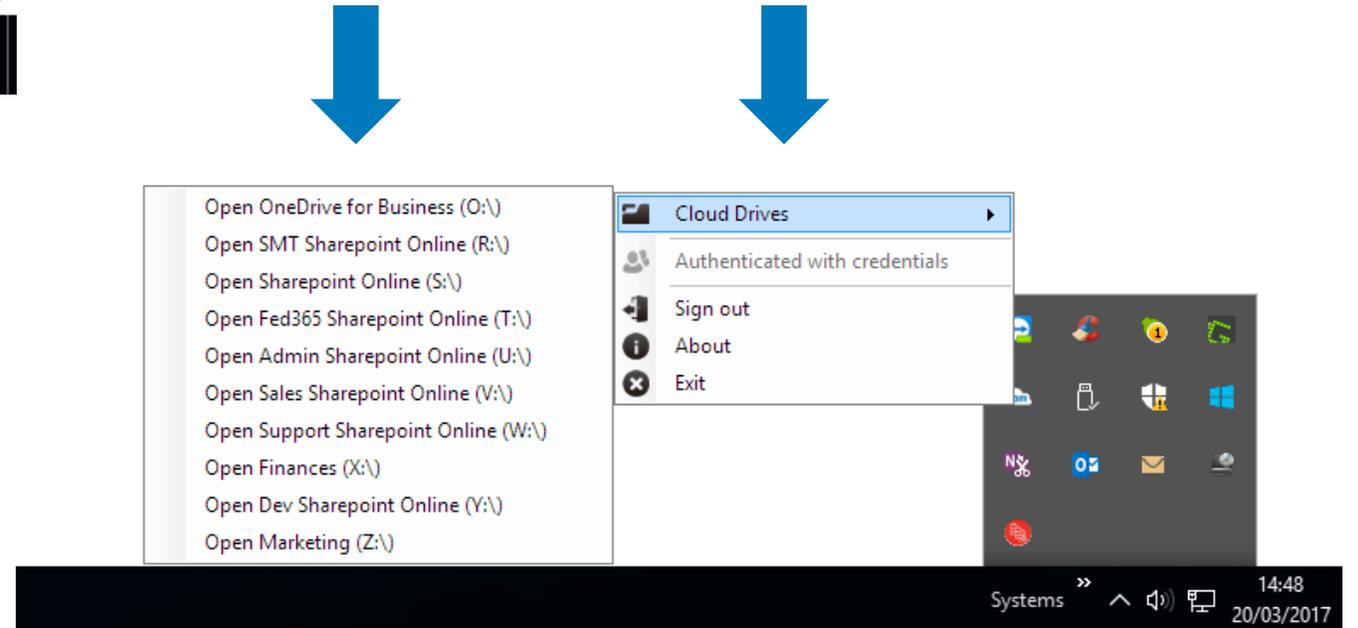
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CLOUD DRIVE MAPPER  
CLIENT RUNNING IN  
THE TASK MENU



CLOUD DRIVE MAPPER  
CLIENT VIEW OF DRIVES

CLOUD DRIVE MAPPER  
CLIENT MENU



# SINGLE SIGN-ON & MULTI-FACTOR AUTHENTICATION

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Cloud Drive Mapper works in non-federated environments through native authentication (username and password), but it really excels when working in environments with single sign-on (SSO), because the drive mapping process becomes invisible to the user.

Cloud Drive Mapper works with ADFS, Azure AD SSO, Okta, OneLogin, RM Unify, VMWare Identity Manager, IAM Cloud, Ping and most other major identity platforms. With SSO, the user simply logs into the domain-joined workstation or VDI, and their drives automatically map in the background.

Cloud Drive Mapper also supports Office 365/Azure Multi-Factor Authentication (MFA), plus other modern third-party MFA providers.



# VDI FRIENDLY

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Because of limitations with file synchronization, caching, challenges in orchestration, and a lack of policy-based control it isn't viable to use the OneDrive for Business client in conjunction with major VDIs like Citrix, RDS or VMWare.

Cloud Drive Mapper works well with mandatory AD profiles and in VDI environments. This allows you to fully embrace VDI environments like XenApp or XenDesktop while making the most of the large volumes of cloud storage included with Office 365.

With Cloud Drive Mapper – Microsoft Office 365 and Citrix can work seamlessly together to provide a powerful yet affordable full cloud solution.

**CITRIX**  
**XenDesktop**

**CITRIX**  
**XenApp**

 **Microsoft**  
Remote Desktop Services



 **vmware**  
Horizon View

 **vmware**  
vSphere

# FOLDER REDIRECTION

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We've built Cloud Drive Mapper to address the challenges and requirements of IT teams.

One of the great benefits of using Cloud Drive Mapper is in how it can automatically manage your folder redirection – including redirection of the standard folders:

Documents, Music, Pictures and Videos

Plus, Cloud Drive Mapper also handles redirection for:

- Desktop – enabling amazing UX consistency across every workstation they log-in to
- Downloads – for added user convenience
- Favorites - enabling seamless web browser experience across workstations

# CONVERGED DRIVES

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Most drive mapping solutions are designed around a 1:1 relationship between the storage endpoint and the drive letter. But there are often cases where this isn't particularly ideal.

We've devised a converged drive model, which allows you to map multiple SharePoint Site libraries, SharePoint Groups libraries, and Microsoft Teams libraries into a single drive letter.

What's more – our converged drive feature can do this dynamically based on the SPO Sites the user has permission to access or the Teams they are a member of. So all you need to do is set-up the drive, e.g.

SharePoint (S:\)

Teams (T:\)

And Cloud Drive Mapper will automatically map all of their MS Teams libraries into the T:\ as root level folders. As they are added to new Teams as time goes on, the Teams will automatically appear in their T:\ drive. Simple, easy, and very effective!

# DRIVE PERSISTENCE

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One of the greatest challenges of providing a mapped drive to a cloud end-point like OneDrive for Business or SharePoint Online is creating a stable and persistent connection.

We have built an intelligent cookie-management system that allows Cloud Drive Mapper to create permanent persistent sessions between the drives and the cloud.

Between Cloud Drive Mapper's handling of cookies and the way in which it integrates with single sign-on, Cloud Drive Mapper provides a seamless, reliable and robust method for users to access cloud storage from the desktop.

# SECURITY IN THE CLOUD - PART 1

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Cloud Drive Mapper combats malware and adds an extra layer of security in the cloud.

- Ransomware almost exclusively targets local files. With Cloud Drive Mapper the files aren't synced, so they aren't local and can't be exploited.
- Some malware attacks other files and applications, and can spread malicious files across drives - this can make portable drives and USB sticks a security threat. However, the mapped drives created by Cloud Drive Mapper use a different protocol that very few malware agents can access.
- The cloud storage in SharePoint Online and OneDrive for Business has a real-time malware scanner, so even if a malicious file were to be copied into a drive Microsoft's extremely advanced threat-detection systems will delete it within seconds. (We've tested this, it's about 10 seconds).
- Files aren't stored locally, which means that hacking the drive wouldn't yield access to any private data. If a laptop were lost or stolen, simply changing the user's Office 365 password will prevent anyone being able to illegally access your organization's data.
- Cloud Drive Mapper is natively compatible with Office 365 MFA to provide an extra factor of protection to your corporate data.

# SECURITY IN THE CLOUD - PART 2

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## Cloud Drive Mapper is highly secure by design.

- Cloud Drive Mapper will use whichever TLS version is enforced on the Windows machine. By default this is TLS 1.0, but for enhanced security we recommend for our customers to upgrade to TLS 1.1 or 1.2.
- Cloud Drive Mapper forces transfers over https, and will not accept any requests over standard http. This means all file transfers enforce SSL encryption. We actually use SSL v2 to avoid the 'Poodle vulnerability' in SSL v3.
- Cloud Drive Mapper has no access to any sensitive customer data at all. The only data stored by IAM Cloud is the URLs of the SharePoint libraries each customer wants to map drives to. IAM Cloud has no access to these drives whatsoever. All Cloud Drive Mapper effectively does is open up a connection between the logged-in user and their Office 365 account in pretty much the same way as if the user was accessing their files through a browser. CDM just renders the data in a different view - as a mapped drive in Windows explorer.
- If required, Cloud Drive Mapper can be used in full on-prem mode. This means that Cloud Drive Mapper doesn't contact our cloud service at all, and instead receives all the drive configuration data from on-prem instead through GPOs/logon scripts.

# SECURITY IN THE CLOUD - PART 3

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## IAM Cloud is a security company

- We make software that can significantly improve our customers' IT security. Our developers and infrastructure engineers are highly adept in a range of cybersecurity topics and act as advisory figures to government bodies and businesses.
- We are ISO27001 certified. ISO27001 is the global standard for excellent information security management practice. As part of this certification, we are audited annually by the BSI accreditation body, and have frequent independent security and vulnerability assessments.
- We've been recognized by Microsoft by our work, and won Microsoft's worldwide partner of the year award in 2015. We're also a Microsoft Gold Partner (2013-19).

# MORE THAN A PRODUCT

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Cloud Drive Mapper is fully supported. For no extra charge, all our customers receive a 24\*7\*365 service, which includes:

- Full on-boarding support, including help with configuration & deployment
- Full access to our customer knowledgebase
- Full access to our ticketing system
- Our standard Service SLAs, including 99.9% service up-time
- Support by telephone, email, web tickets and web conference
- Quarterly service reviews
- Free upgrades to future releases

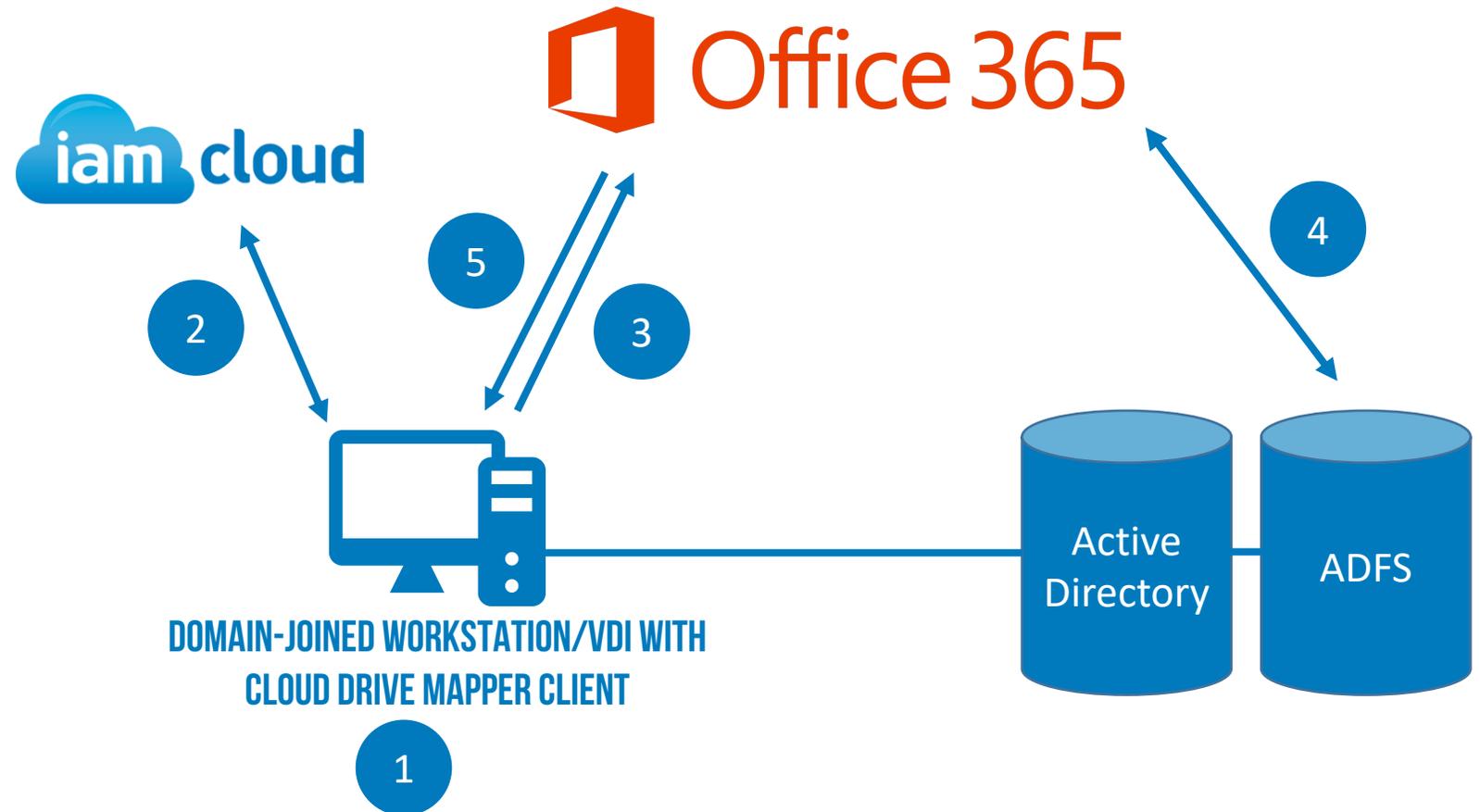


# HOW CLOUD DRIVE MAPPER WORKS

## Cloud Drive Mapper process (typical scenario)

1. User logs into domain-joined workstation/VDI.
2. Cloud Drive Mapper inherits license key (regkey) from group policy, validates license with IAM Cloud, and pulls down user's drive config data.
3. Cloud Drive Mapper attempts log-in into Office 365.
4. Office 365 relays request to the designated IDP - ADFS in this case - and confirms user identity.
5. Office 365 allows Cloud Drive Mapper access. Cloud Drive Mapper then automatically provisions the user's drives.

The process is triggered at start-up, typically takes 1-3 seconds, and is invisible to the user.



# HOW CLOUD DRIVE MAPPER WORKS

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## Drive Configuration & Security Information

To configure Cloud Drive Mapper's drive mapping settings, a customer or partner Admin would simply log-in to the IAM Cloud portal - [portal.iamcloud.net](https://portal.iamcloud.net) - and set up drive mappings in the Cloud Drive Mapper wizard. We only require the following data in order to set up Cloud Drive Mapper:

- Drive name (e.g. Marketing)
- Drive letter (e.g. M)
- SharePoint library URL (e.g. [customer.sharepoint.com/marketing](https://customer.sharepoint.com/marketing))

This data is stored securely in our cloud platform, IAM Cloud, hosted in Microsoft Azure.

**IMPORTANT:** IAM Cloud has **no access** to any OneDrive for Business or SharePoint libraries or any content within them, and **does not require** a global admin account within Office 365. Therefore, there are no negative security implications when adopting Cloud Drive Mapper.

However for major customers, including banks and central governments, with stringent security policies meaning any communication with a web-API requires significant security vetting, Cloud Drive Mapper has an Enterprise option which has no communication with IAM Cloud. Instead the Cloud Drive Mapper client is licensed on-premises, and inherits the drive mapping settings from existing on-premises systems and scripts.

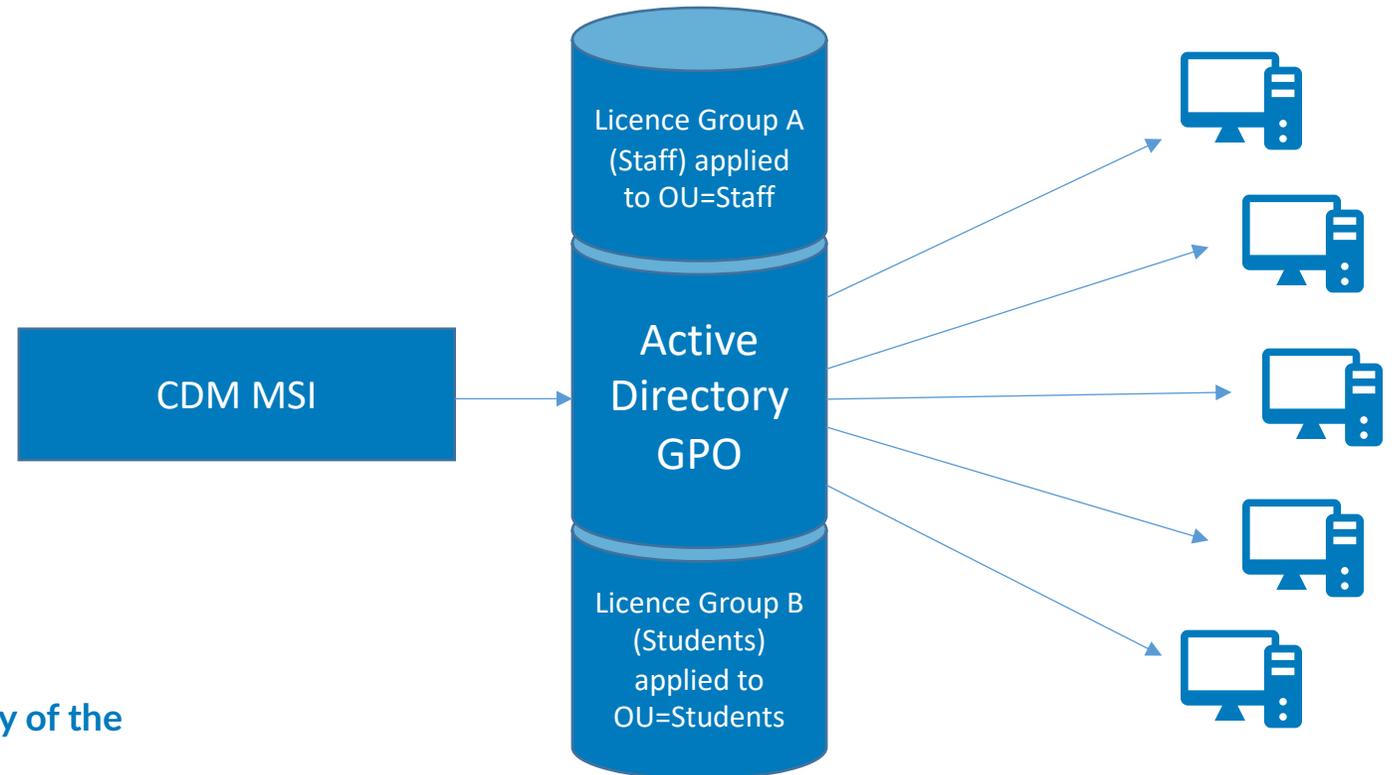
CDM Enterprise is also useful for customers with highly complex drive mapping settings – where they have hundreds or even thousands of different drive mapping groups, which would be a burden to manage in our configuration wizard.

# CLOUD DRIVE MAPPER DEPLOYMENT PROCESS

## Simple & fast deployment

1. Basic Account Setup
2. Create User Groups
3. License Key Download
4. MSI/EXE Download
5. MSI/EXE Deployment

Cloud Drive Mapper can also be deployed through any of the standard orchestration tools, including SCCM.



# WHY CLOUD DRIVE MAPPER

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1

## CONTROL IN THE CLOUD

Get all the control of on-premises network storage with the flexibility and affordability of the cloud

2

## COST SAVING

Provides a genuinely viable replacement to network storage, potentially saving \$10,000s per year.

3

## CLOUD ADOPTION

Cloud Drive Mapper helps organisations take simple effective steps to adopting cloud while minimising user disruption

4

## NO BARRIERS, NO ISSUES

Direct access to the cloud storage eliminates the major issues of file synchronisation in organisations.

5

## SECURITY

Allow users to login on any machine on your network and only have access to the drives you've assigned them.

6

## SEAMLESS USER EXPERIENCE

Cloud Drive Mapper works with ADFS, RM Unify, Okta, OneLogin and IAM Cloud's federation service to provide seamless single sign-on

# CLOUD DRIVE MAPPER FAQ

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## **Do I need any training?**

No. One of the great things about Cloud Drive Mapper is how easy it is to use for both users and IT teams. Once you've implemented, you don't have to do anything else. Our support team is also on hand to help at any point.

## **Is there a user limit in the trial?**

There is no limit to the number of users you can have on the trial...if you want everyone in your business to try it, then please do!

## **What happens after the trial?**

Once you're close to the end of your free trial, someone from our commercial team will be in touch to check everything is okay and see if you want to continue using it. If you do, we'll send you an invoice.

## **Do trials take long to setup?**

No, it's really easy and can take as little as 5 minutes.

## **What happens if a user hasn't activated their OneDrive for Business account?**

We've got you covered. Cloud Drive Mapper will automatically activate the OneDrive for Business account, so it's a seamless experience for everyone. It's all about the little things.

## **What happens if Cloud Drive Mapper doesn't work how I need or expect?**

Just let us know. It may be that you have a configuration on-site we've not encountered before. We'll happily work with you to ensure Cloud Drive Mapper fulfils your requirements.

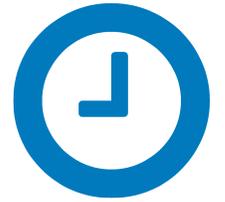
# CLOUD DRIVE MAPPER IS USED IN ORGANIZATIONS OF ALL SIZES AND SECTORS



>2 MILLION USERS



>1000 ORGANISATIONS



5 MINS TO SETUP

GEELY



BAUSCH+LOMB  
See better. Live better.



IMPAQ



coop



StanleyBlack&Decker





“ We use a number of robots in our high-tech manufacturing facilities. Enabling them to save data directly into the Microsoft cloud with Cloud Drive Mapper allows us to integrate all of our processes into one place, and helps to modernize our industrial & business systems. We’ve been really impressed with CDM so far, and so have the robots! ”

**RICHARD ABBA, SENIOR PROJECT MANAGER, ENGIE**

# **CLOUD DRIVE MAPPER PRICING**

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