

Microsoft Purview

This advice is a discussion document on Microsoft Purview. The intention of this document is to provide context for anybody considering the suitability of MS Purview for the ACT Government. The primary focus of the Territory Records Office is the records management toolset of MS Purview, but the discussion is applicable to anybody wanting to manage and protect information within M365.

MS Purview is very much an emerging technology in the information governance space. This product is not currently available or deployed within ACT government systems. At this point in time, our assessment is that MS Purview may be useful to automate the retention of records within a narrow set of specific business processes, but it will be unwieldy when scaled to manage records in place across the whole of government.

What is MS Purview?

Microsoft Purview is a set of tools within the M365 environment that enable compliance with legal or regulatory standards at an organisational level. MS Purview is bundled as part of the Microsoft 365 E5 licensing tier. The tools provide information protection and governance capabilities with a focus on security, managing risk, compliance with international data & privacy standards, eDiscovery, and auditing.

Recently, Microsoft Purview has been promoted as a solution to records management issues within the Microsoft 365 suite of applications. MS Purview operates on most of the M365 products that contain an 'information store'. These include Outlook, Teams, Sharepoint, and OneDrive.

Is MS Purview a fit for purpose Records Management option for ACTGOV?

Although records management is a promoted feature, from the sales literature and documentation, it is clear that records management functionality is a minor subset of the information governance features of Microsoft Purview.

The primary use cases documented by Microsoft are in the realm of banking and financial services, and energy and utility services. There are additional compliance resources for government, but they are framed around deploying Microsoft Teams at the various tiers of US Federal Government information system security accreditation.

MS Purview deployments for financial services and public utilities are broad brush approaches. Blanket retention policies are set across all communications and documents to meet minimum legislated retention requirements, triggers are set up to detect improper access to documents, and business units have their communication and documentation ringfenced to meet insider trading and other integrity regulations. These are high level approaches to information governance that lack the granularity required within ACT Government entities.

The current endorsed electronic document and management systems (EDRMS—Objective ECM & HPE Content Manager) are highly structured storage environments. A 'record' is essentially a standard set of metadata with an embedded electronic document or data file. When creating or managing records, metadata properties (such as audit logs) are embedded within the record. Records containing different file formats have consistent metadata. In this environment, records are managed using the administrator interface of the EDRMS.

MS Purview essentially manages records 'in place' within the source M365 applications. The available tools within those applications allow information governance policies to be created at high levels, which are then inherited by any document created under that level. Management at individual record level requires intense customisation using scripting languages.

Deploying MS Purview may require multiple approaches to records management within *each application*. As an example, MS Teams may be used for day to day communication within a small team, collaborative editing of documents, or coordinating a project across agencies. Each of these scenarios may have differing record retention requirements, and a resulting customisation of policies within MS Purview. Recordkeeping approaches and configurations needs will likely differ between directorates, and between business units within directorates.

At the most fundamental level, record management within Microsoft Purview is designed around the US legislative model of recordkeeping, that requires a record to be 'declared', rather than all business information becoming a record on creation. Moving to a 'declaration' model would be inconsistent with Australian practice and ACT records and information legislation. It is also unlikely to remove the recordkeeping compliance burden for end users.

How does Microsoft Purview record management work?

The basic mechanism to manage records within M365 is the retention label. MS Purview allows individual documents to be tagged with 'retention labels'. A Record retention is simply a metadata label for a document, email or other file object within M365. The label places restrictions on an end user's actions according to a table of policies. Rather than being a property integral to the metadata of a labelled document, details of the retention label appear to be stored centrally within a given product.

Microsoft Purview provides a basic set of retention labels that are intended to enable recordkeeping activities. There are four tiers of 'baked in' record labels that progressively restrict actions on a particular document/record. The first of these tiers is a basic 'tag' with a retention period that can be applied by any user. To apply stronger protections, such as restrictions on deletion or editing, administrator privileges are required. Out of the box, records retention labels have three default actions: metadata tag only, delete automatically according to a trigger, or begin a disposal approval process on trigger. To apply more sophisticated protections, such as a workflow approval for the deletion of records at the end of their retention period, script based customisation is required.

There is a special Microsoft Active directory administrator class called Records Manager that has been introduced, that gives an end user appropriate administrative privileges within the MS Purview tools, rather than requiring full system administrator privileges. Only a Records Manager can apply retention policies with stronger protections such as restrictions on editing or deletion.

Administrators can set up automatic application of policies based on any number of criteria. Each automatic classification process requires configuration. Examples of classification processes would be to apply a label when a document is dragged into a folder/container, or all content for a particular Teams channel could inherit a label.

It is possible to automate record label classification based on metadata and content keywords. Search engine-like agents can potentially be 'trained' with specific content and metadata terms, but this feature should be considered experimental.

What are the records management gaps in MS Purview?

The ACT, along with other states, territories and the National Archives of Australia have adopted the [principles and functional requirements](#) of EDRMS systems as defined by the International Council of Archives. The following highlights some key differences between MS Purview and our endorsed EDRMS systems along with associated principals.

How does MS Purview handle Metadata?

Principles:

- Business information has to be linked to its business context through the use of metadata.
- Systems for capturing and managing business information have to rely on standardised metadata as an active, dynamic and integral part of the recordkeeping process.

A retention label is simply a metadata label for a document, email or other file object within M365. The label places restrictions on an end user's actions according to a table of policies. Rather than being a property integral to the metadata of a labelled document, details of the retention label appear to be stored centrally within a given product. This is similar to Sharepoint, where documents within Sharepoint can be given labels and other metadata properties that are stored within Sharepoint rather than being an intrinsic part of a document or data file.

If something is exported or deleted – what metadata is left behind?

Principles:

- Business information has to be able to be disposed of in a managed, systematic and auditable way.
- Systems should have the capacity for bulk import and export using open formats.

Record labels and associated metadata are not exported by default from Microsoft Purview when documents or records are transferred to another repository. There is potential to script the export of metadata for a particular batch of records, but this will likely require customisation for each export process.

The file name of records deleted through a MS Purview approval process are recorded in a central database, along with details of the approval. This database can be exported to Excel/CSV. Without an export process, log files containing records of deletions are only retained for a limited time.

Are actions using MS tools auditable?

Principles:

- Electronic business information has to be actively managed and reliably maintained as authentic evidence of business activity.
- Systems must maintain business information in a secure environment.

Auditing is a separate feature of MS Purview. An audit trail of particular actions on documents or records can be captured. Basic audit capability is 90 days retention on a standardised list of actions, or advanced auditing and retention of audit trails for up to 10 years can be custom configured on specific criteria. If audit trails are not configured, no specific audit information is kept other than general operating system logs.

This is a significant departure from the audit capabilities of Content Manager and Objective, where every record has a permanent embedded log of access and actions.

References & Resources:

Compliance overview:

[Microsoft 365 E5 Compliance | Microsoft Security](#)

Purview Compliance Documentation:

[Microsoft 365 Purview compliance documentation | Microsoft Docs](#)

Records Management Documentation

[Records Management in Microsoft 365 - Microsoft 365 Purview | Microsoft Docs](#)

Information governance training modules:

[SC-400 part 3: Implement Information Governance in Microsoft 365 - Learn | Microsoft Docs](#)

Data protection resources:

[Data Protection \(microsoft.com\)](#)

Security and compliance for financial services:

[Key compliance and security considerations for US banking and capital markets | Microsoft Docs](#)

Security and compliance for energy and utility services:

[Key Compliance and Security Considerations for the Energy Industry | Microsoft Docs](#)

ICA Principles and Functional Requirements for Records in Electronic Office Environments

https://www.naa.gov.au/sites/default/files/2019-09/m1-ica-overview-principle-and-functional-requirements_tcm16-95418.pdf