



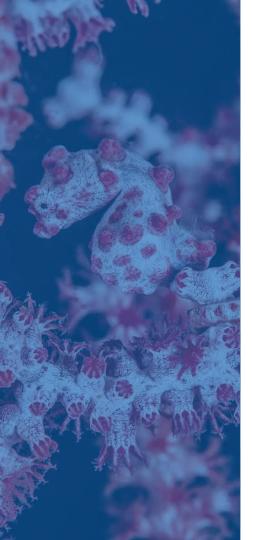
- O1 Digital Archiving
 From suspension files to software archives
- O2 Cloud Archiving

03 Q and A



Electronic archiving is the database-supported, secure and unchangeable storage of electronic information objects that can be reproduced at any time.

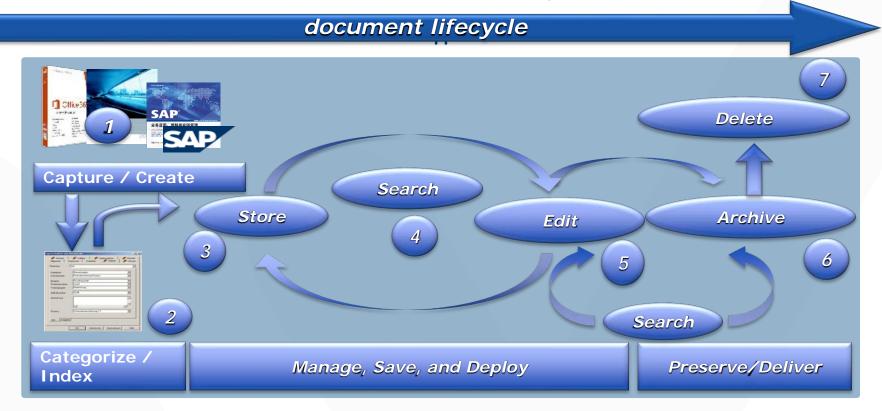




What is an ECM/Archive?

- An application that enables the unchangeable storage of electronic documents
- ✓ Additional attributes (invoice with invoice number,...)
- Document history, rights management
- Search for attributes and content
- Support of audit-proof hardware e.g. windream archive, special storage solutions, cloud storage etc.

The Document Lifecycle





Storage process in windream

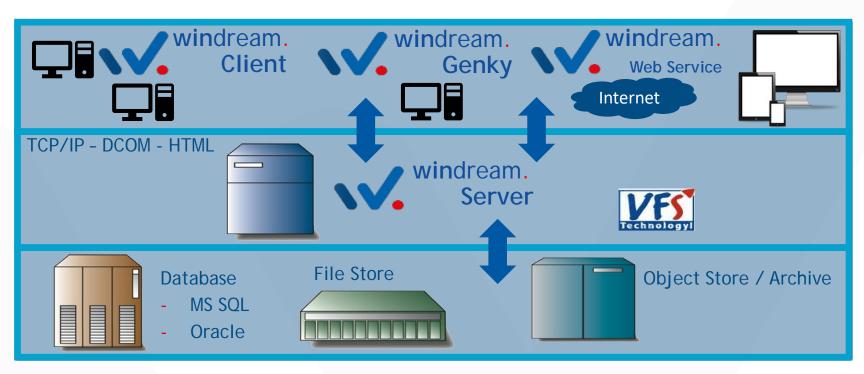
A document in windream basically consists of two parts



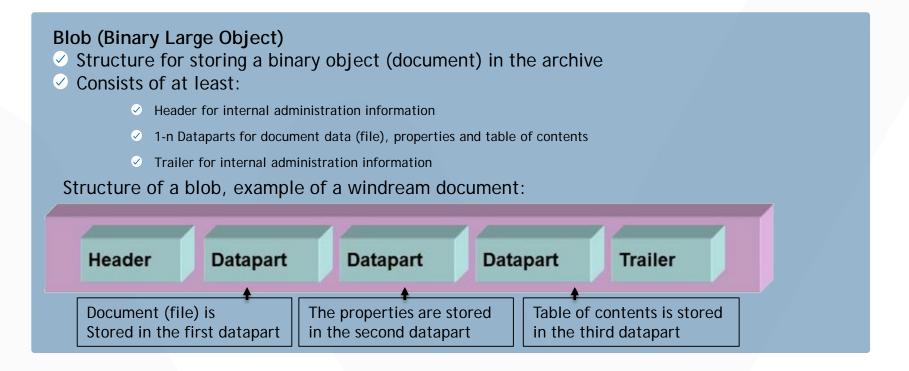
The binary part of the document (the file) is stored in the file storage or archived in the object memory

✓ The linked metadata of the document is stored in the database

Architecture: Three-tiered model

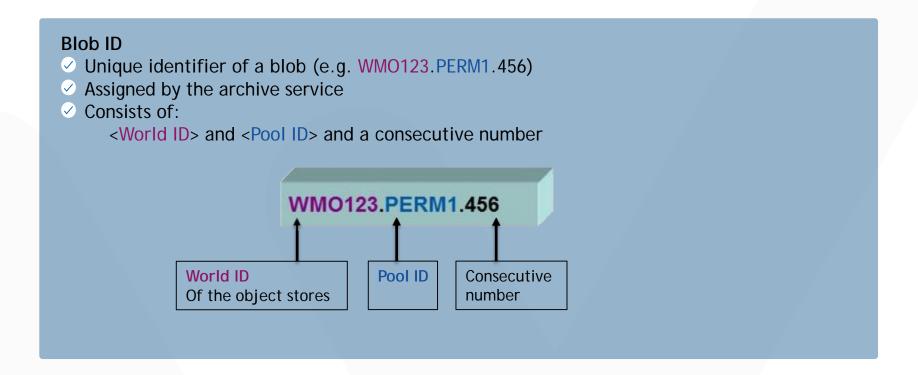


What is a blob?





What is the Blob ID?



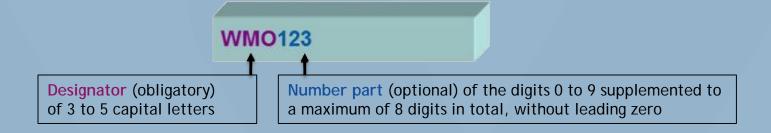


What is the World ID?

World ID

- Worldwide unique identifier of the object store (e.g. WMO123)
- Used to generate the Blob IDs, uses the names of the blob containers and the blob registers
- Consists of:

<Designator> and <number part> (e.g. AAA12345, ABCDE1 or ABC)

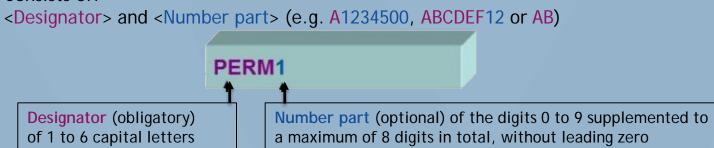




What is the Pool ID?

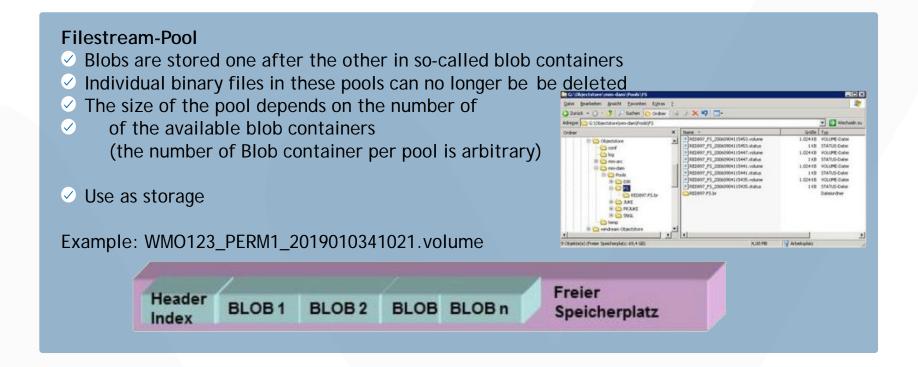
Pool ID

- Unique designator of an object storage pool(e.g. PERM1)
- Determined by the system administrator
- Used to generate the Blob IDs, uses the names of the blob containers and the blob registers
- Consists of:



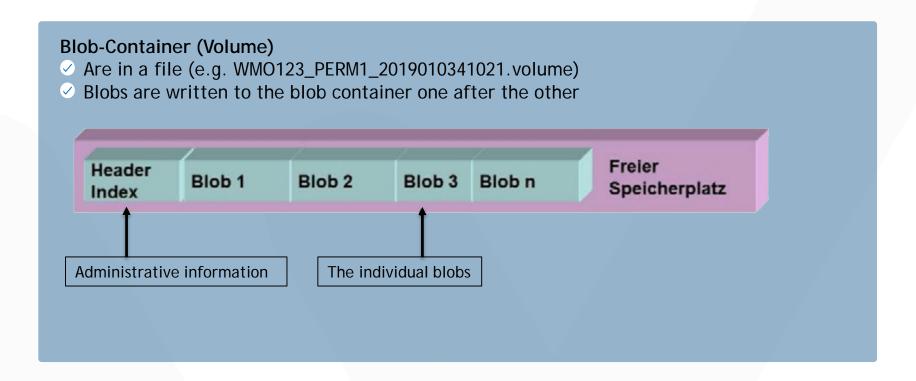


What is a filestream pool?





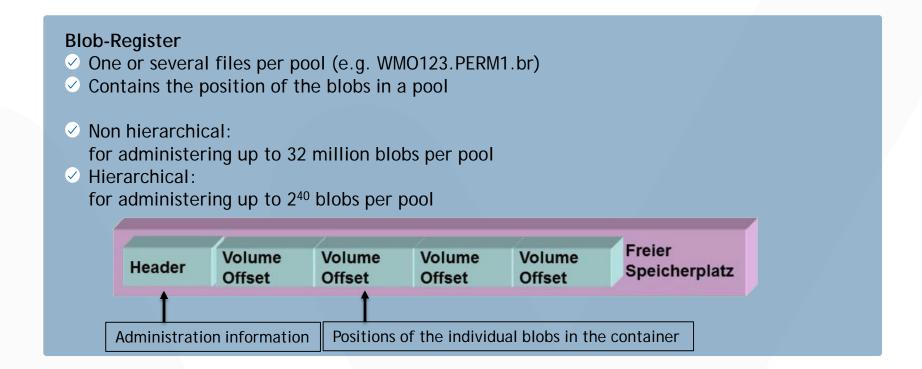
What is a BLOB container?







What is the blob register?







Independent of hardware

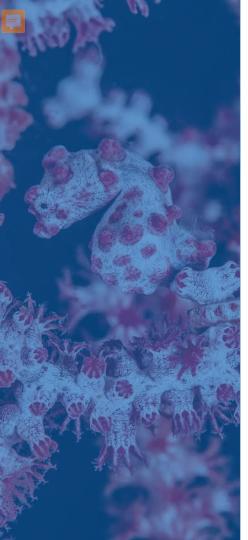
Pools can be on any medium

Compliance

Comply with legal requirements

Paperless

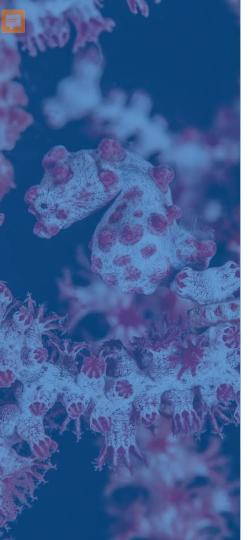
Meet compliance requirements and accelerate data delivery



Legal opinion Compliance



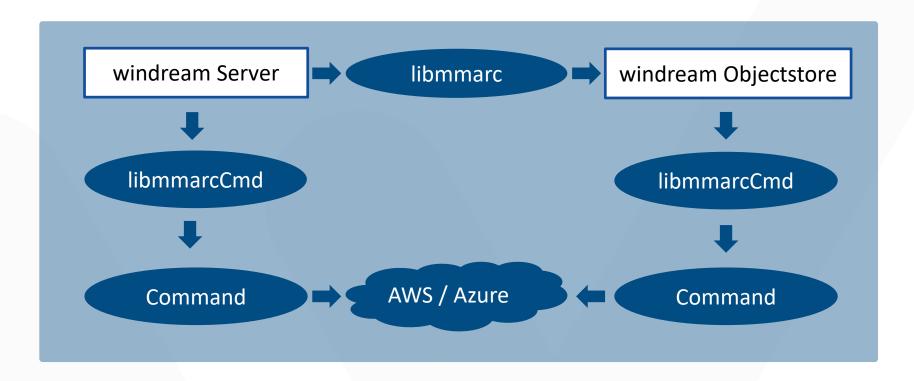




Why Archiving in Cloud Storage?

- ✓ Frequent demand
- Cost-effective
- ✓ Secure storage guaranteed by Microsoft/AWS
- ✓ Possibility of georedundancy
- ✓ Ideal for Cloud Deployment
- ✓ Many S3 compatible storage systems available (e.g. ECS)

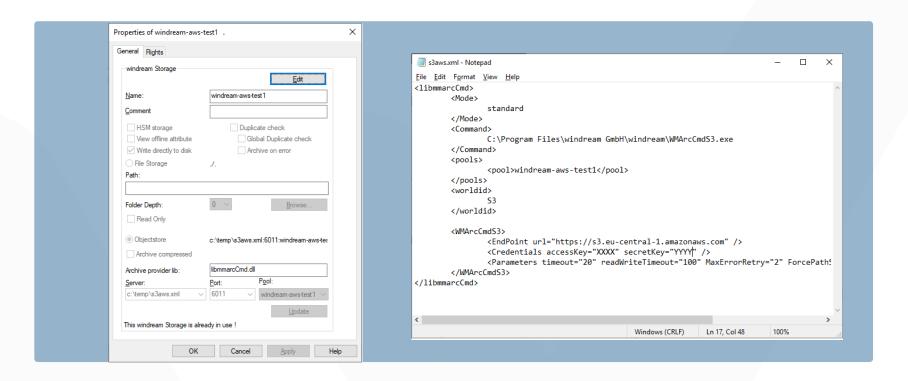
Cloud - Store





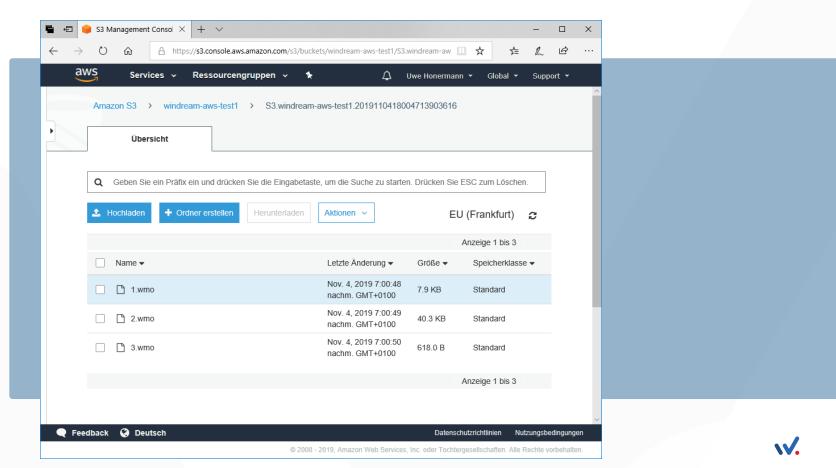


Cloud storage without Objectstore



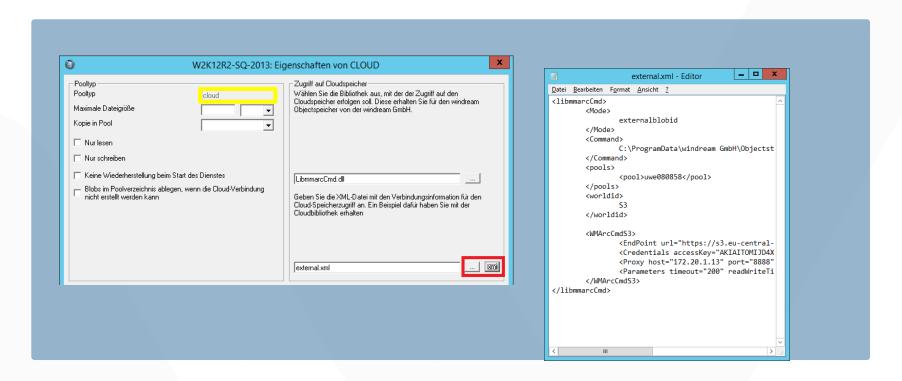


Structure of the data (here Amazon S3)





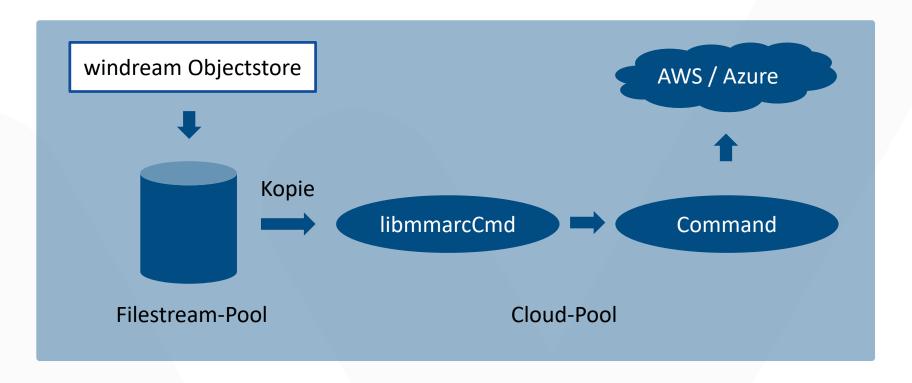
Cloud pool via Objectstore





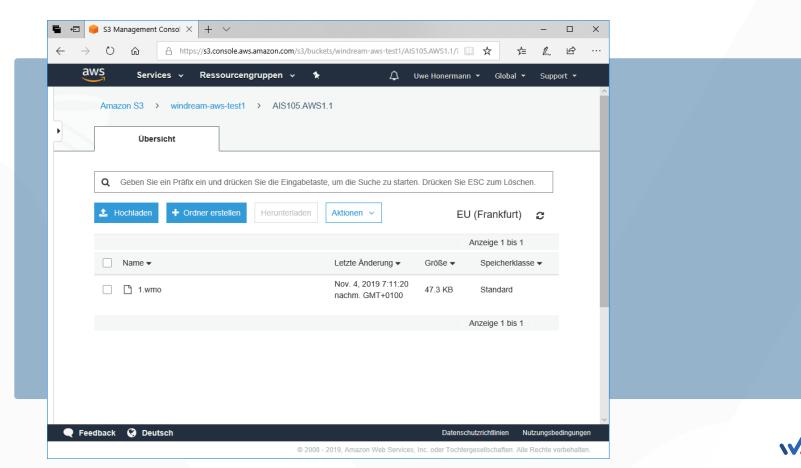


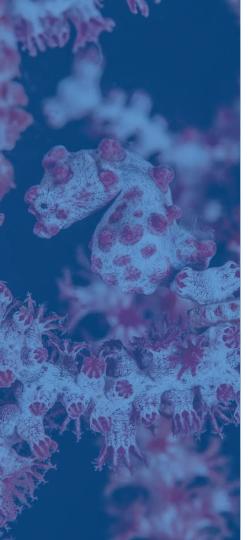
On-Premises Filestream-Pool + Cloud-Copy-Pool





Structure of the data (here Amazon S3)

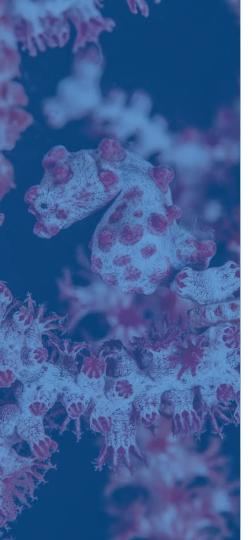




Control of libmmarcCmd via XML file

General part

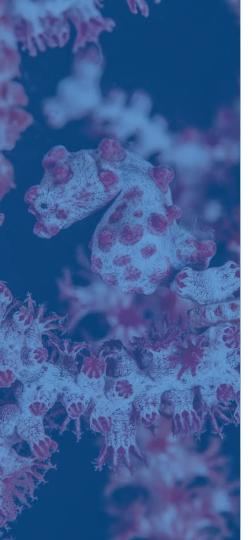
- ✓ Mode: externalBlobId or standard
- ✓ Command: Call external application with parameter
- ✓ ProgID: Use COM object In-Process/Out-of-Process
- ✓ Pools: List of pools (simulated)
- ✓ WorldId: simulated WorldId



Control of libmmarcCmd via XML file

Specific part

- ✓ Completely dependent on the Command/ProgID used
- Contains all necessary parameters for the access
- ✓ E.g.: EndPoint, Credentials, Timeouts, etc.
- ✓ XML file is passed as parameter.
- ✓ Thus arbitrarily expandable



Currently available connections

- **⊘** Azure BLOB Storage Command
- ✓ Amazon S3 Command
- ✓ Amazon S3 COM-Modul
 - Especially for on-premises or pure AWS solution

