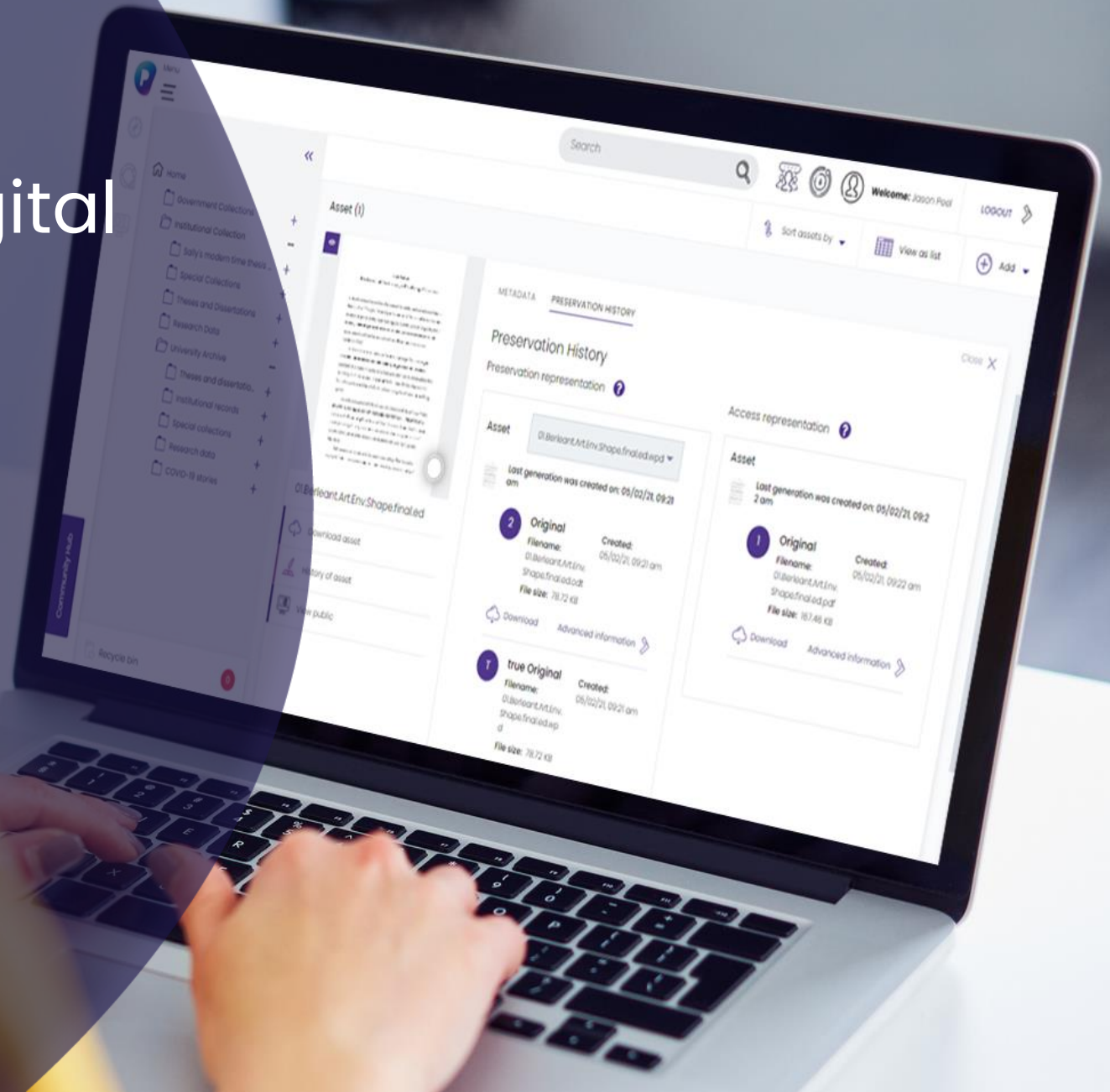


# Email Handling in a Digital Preservation System


15<sup>th</sup> June, 2023



# Outline

-  Intro to Preservica
-  Modelling Emails
-  Emails in Preservica
-  Mailboxes
-  Summary



 **Jack O'Sullivan**  
Engineering Lead,  
PREMIS EC Member

# Preservica

- Long Term Digital Preservation System
- Cloud Service & On-Premise
- National memory institutions, Corporate archives, Local government, Education & everything else
- Not specifically email
- We see a lot of variety!

# Modelling Email

- What is an email?
- Message Body – text (+ markup) (+ embedded content)
- Contextual Metadata – subject, sender, recipients, flags
- Provenance Metadata – email headers
- Attachments – Other arbitrary content

# Modelling in Preservica

**Asset** The logical piece of information the person deals with e.g. document, image, video, email, book



Information Object

**Representation** A view of that asset – the same information shown in a different way – e.g. preservation-master, access...



Representation

Representation

**Content Object** block parts of content that make up a whole Representation e.g. attachments in an email



Content Object

Content Object

**Generation** The same logical content migrated to new formats for preservation reasons



Message.eml

Attachment.tiff

Attachment.jp2

**BitStream** The physical 0s and 1s that make up the generation of the content object



Bitstream

Bitstream

# Demo






The screenshot shows a web browser window titled "Preservica Starter" with the URL `preview.preservica.com/starter/explorer/sdb:SO%7Cf721e523-c31a-4bb3-8c74-5d8c06ec8476`. The interface is dark-themed and includes a navigation menu on the left, a search bar, and a user profile for "Jack O'Sullivan".

The main content area displays a file explorer view for "Email Archiving Symposium". The address bar shows the path `C:\fileshare\pineapple\msg\Email Archiving Symposium`. The file list contains one item:

Name	Date modified	Type	Size
RE Contains inline image formatting and an attachment.msg	07/01/2021 15:52	Outlook Item	1,83 MB

The status bar at the bottom indicates "1 item | 1 item selected 1.83 MB | State: Shared".

# Mailboxes

-  Exported from another system
-  Organisational Information
-  Conversational Information
-  Non-email content (calendar appointments)
-  Unsent emails

# Demo

The screenshot displays the Preservica Starter web application interface. At the top, the browser address bar shows the URL `preview.preservica.com/starter/explorer/sdb:SO%7C17ff013f-6be6-4f83-8c75-e43c6b71a870`. The user is logged in as Jack O'Sullivan, with a "LOGOUT" button in the top right corner. A search bar is located in the top navigation area.

The main content area shows a file explorer for user "Jack". The storage capacity is indicated as "355.GB - [Increase your capacity](#)". Navigation options include "Sort assets by", "View as list", and "Add". The breadcrumb path is "Home / Jack".

The section "Folders (12)" displays four folder thumbnails:

- Content
- Demo
- Email Archiving Symposium
- ePubs

A "Show more folders" button is located at the bottom right of the folder list. Below the folders, the "Assets (25)" section is partially visible.



# Summary

- Emails are complex digital objects
- Message, metadata and attachments all preserved together
- Message and attachments are normalizable individually
- Mailboxes add further contextual information

# Thank you



[info@preservica.com](mailto:info@preservica.com)



[preservica.com](http://preservica.com)  
[starter.preservica.com](http://starter.preservica.com)  
[developers.preservica.com](http://developers.preservica.com)



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