

ESDC VOspace Status and Euclid Use Case

S. Nieto on behalf of ESDC Team (ESAC Science Data Centre)

21/10/2016

Issue/Revision: 1.0

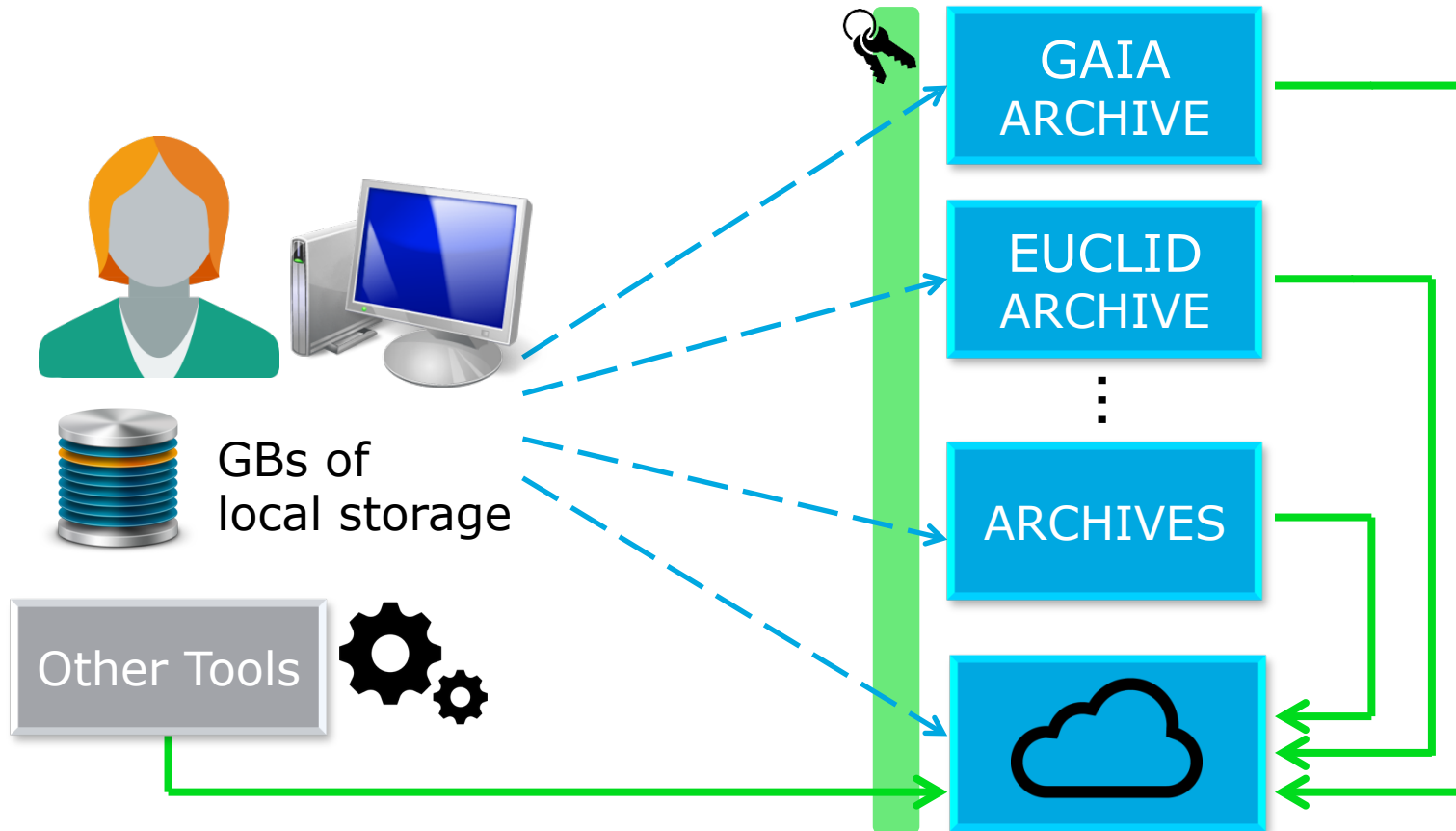
Reference: ESDC VOspace Status and Euclid Use Case

Status: Issued

ESA UNCLASSIFIED - Releasable to the Public

- Context
- Public share mechanism
- Euclid – VOSpace Use Case
- Open points and Future work

Overall Archives-VOSpace schema



- **From** VOSpace wiki page (Optional functionality)
- **What users want?** Get a simple URL that provides access to the node content using a HTTP GET request
- **Basic requirements**
 - a. The endpoint URL **MUST** work with a simple HTTP GET request.
 - b. The endpoint URL **SHOULD** be suitable for listing in a published paper.
 - c. The endpoint URL **SHOULD** be suitable for sending to someone in an email.
 - d. The endpoint URL **MUST** be able to be used multiple times by multiple clients.

ESDC VOspace shareable links



- Single transfer protocol: **http**
- Enable downloading nodes from obfuscated link
- Link types:
 - Public: accessible for ldap and external users
 - Protected share protocol: for users (ldap) and VOspace groups
 - If A&A fails, retrieves a Permission Denied Exception
- New property declared:
 - Added property: “**Public** = true | false”
 - User[read/write]: readonly, value and **link**
 - Group[read/write]: readonly, value and **link**
- <http://vospace.esac.esa.int/vospace/sh/ec60f8e913b1ad179ec78d3b5?dl=1>
- <...vospace/sh/testuser/node1/node11> -> <...sh/ec60f8e913b1ad1778d3b5?dl=1>

ESDC VOspace shareable links



- Do we want to define a Zipped view to download a ContainerNode as zipfile?
 - Do we want to add a property to control the URL lifetime ?
 - Do we want to add a property to control the number of downloads allowed ?
 - Do we want to add a property to control access ?
-
- Future work:
 - Redirection from public share link to download url
 - DOIs support (?)
 - Files can be downloaded uncompressed, selected by users
 - Expiration date, number of downloads permitted

Public shareable links



VOSpace Browser

28.4 GB (28%) of 100GB

My VOSpace ▶ after

TITLE	SHARED WITH	OWNER	SIZE	LAST MODIFIED
..				
20150205-EAS-SM.pdf		Nieto	80.5 KB	07/06/2016 21:33:31
test		Nieto	--	09/09/2016 13:59:05

Share Link to '20150205-EAS-SM.pdf'

Public link to file [Remove link](#)

`vospace/sh/ec60f8e91ea3a61a21f8103b1ad179ec78d3b5?dl=1`

Close

VOSPACE BROWSER 1.3.2 - Copyright 2000-2016 © ESA

Share links with users



VOSpace Browser

snieto [Help](#) [Sign Out](#)

28.4 GB (28%) of 100GB

My VOSpace

- a b
- hola
- hola2
- after**
- test
- boarding
- books
- demo
- dm
- EAS
- esasky_bids
- Euclid
- GARS

My VOSpace ▶ after

TITLE	SIZE	LAST MODIFIED
..		
20150205		
test		

Sharing Settings

Who have access

Users **Groups**

File or Folder	Name	Role	Remove
test	pteodoro	Editor	Delete

Share with people

User Editor

Share link:

Share Close

VOSPACE BROWSER 1.3.2 - Copyright 2000-2016 © ESA

Share links with groups



VOSpace Browser

snieto Help Sign Out

28.4 GB (28%) of 100GB

My VOSpace

- a b
- hola
- hola2
- after**
- test
- boarding
- books
- demo
- dm
- EAS
- esasky_bids
- Euclid
- GAFC

TITLE	OWNER	SIZE	LAST MODIFIED
..			
20150205	a Nieto	80.5 KB	07/06/2016 21:33:31
test	a Nieto	-	09/09/2016 13:59:05

Sharing Settings

Who have access

Users Groups

File or Folder	Group	Role	Remove
test	ESDC	Editor	Remove

Share with people

Group: Select group Role: Editor

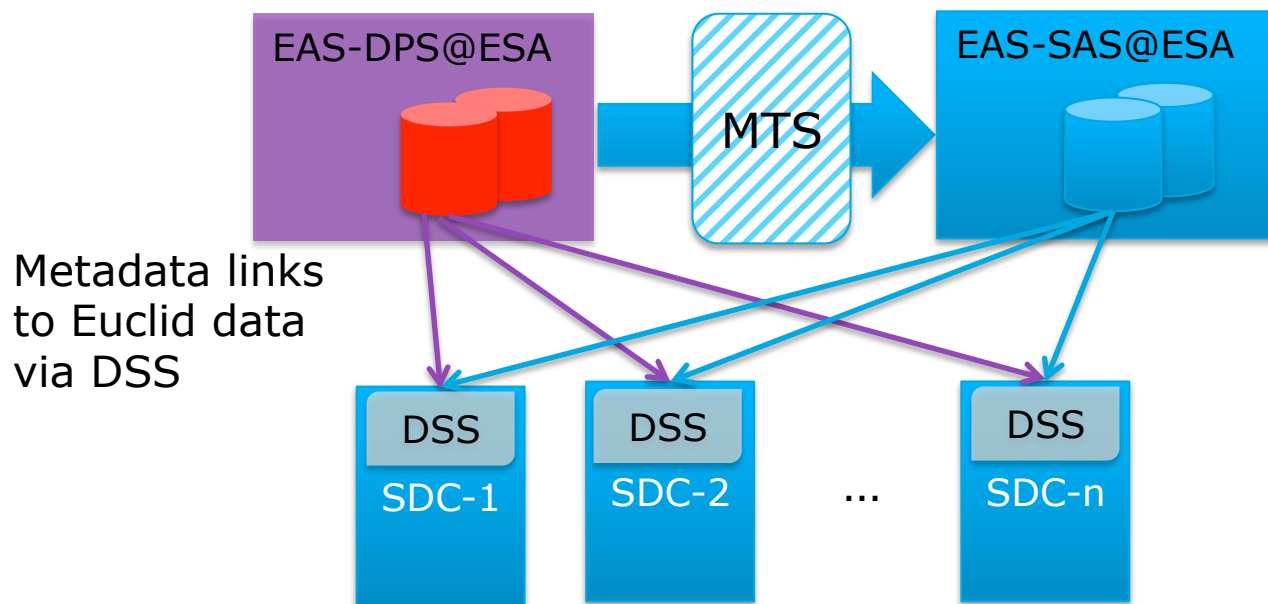
Share link: `bc2297c8602842f499f8b8687ca4c845182819?dl=3`

Share Close

VOSPACE BROWSER 1.3.2 - Copyright 2000-2016 © ESA

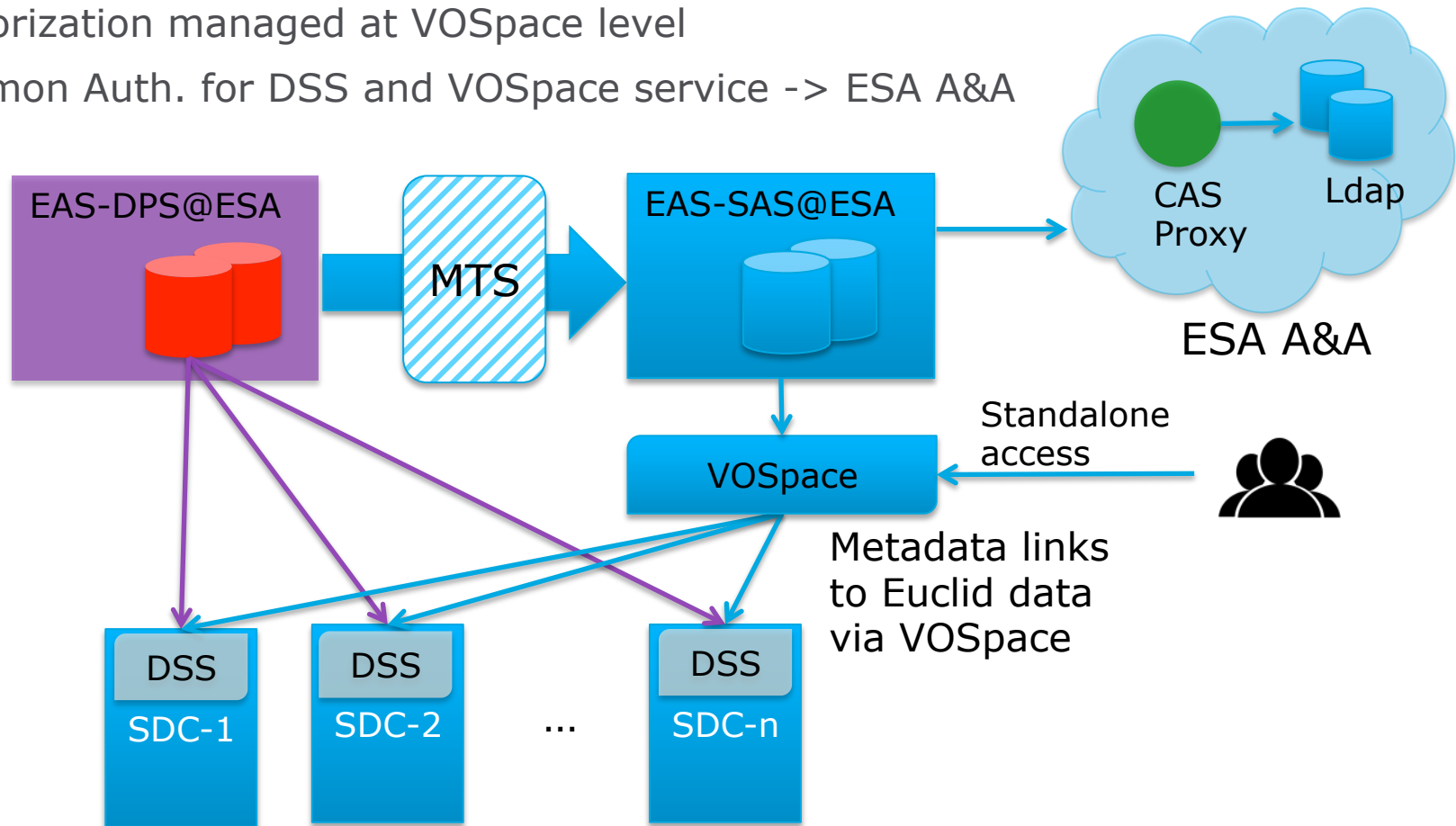
Euclid – VOSpace Use Case

- Use Case: Use VOSpace as an entry point to Euclid data (via SAS)
 - Only applicable for Euclid Data Releases through SAS
 - Authentication between VOSpace and EAS-DSS in behalf of the user
 - Register VOSpace links (URI) pointing to nodes at SDC/DSS-X
 - Enable Archives-VOSpace connection through links



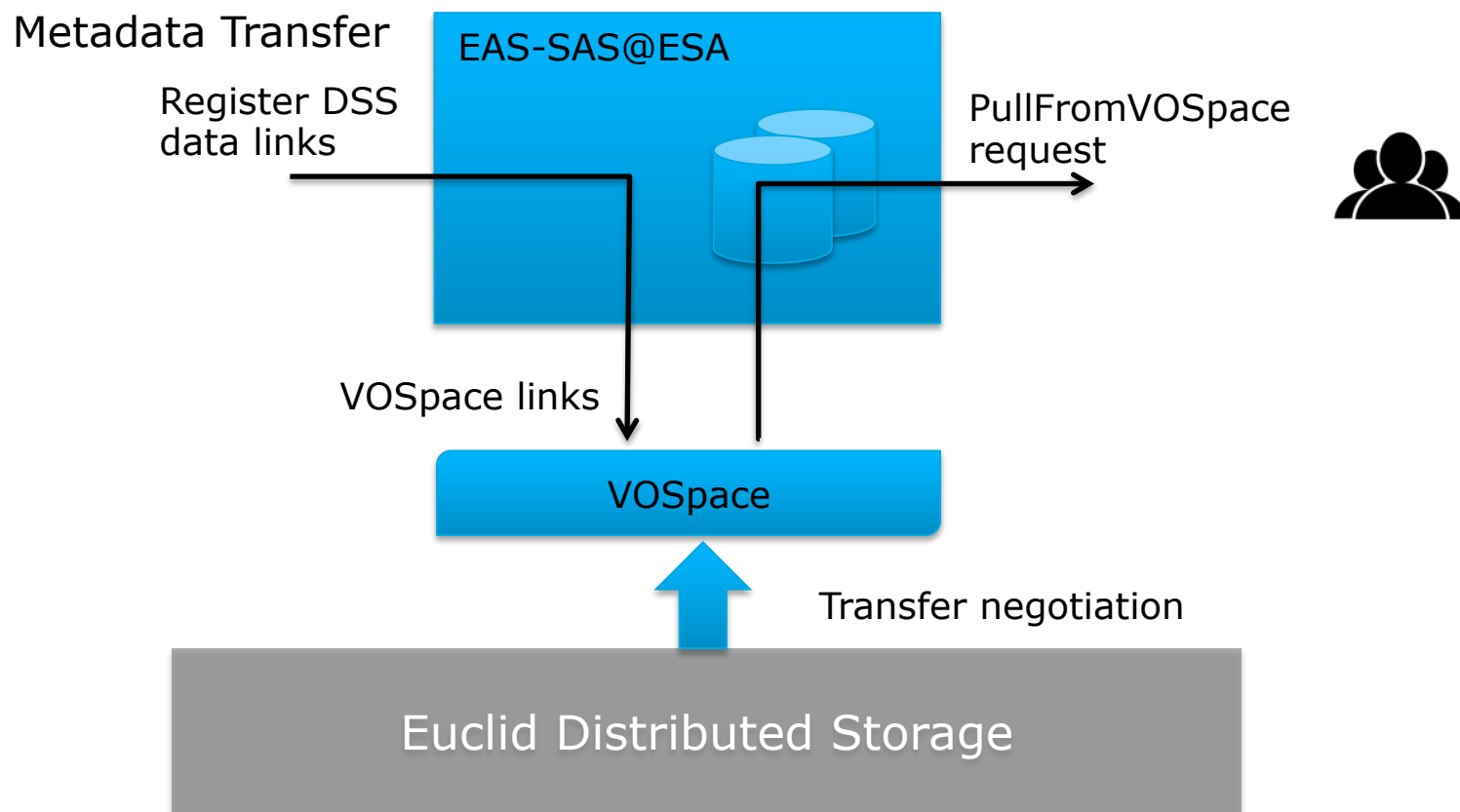
Euclid – VOSpace Use Case

- Use VOSpace as the interface to Euclid DSS from SAS
- Authorization managed at VOSpace level
- Common Auth. for DSS and VOSpace service -> ESA A&A



Euclid – VOSpace Use Case

- Registration of links in VOSpace and downloading process request



- Open points:
 - VOSpace and DOIs
 - VOSpace support in applications: Aladin, Topcat
- Future work:
 - Transfer protocol between VOSpace and external data centres
 - PoC of Federated Authentication for VOSpace
 - Interoperability testing
 - Bring Public Share mechanism close to the specification
 - PoC of Euclid – VOSpace interoperability
 - Implementation VOSpace spec. v2.1
 - Server-initiated transfers
 - Search (Apache Lucene)

Thanks for your attention!

Questions?

Comments?