



DH05 Utilising LSAF for data management at a Belgian biotech



Louella Schoemacher

Agenda



- Introduction
- LSAF
- LSAF set-up
- LSAF in day-to-day activities
- What is next
- Take home messages

Introduction - Who are we?



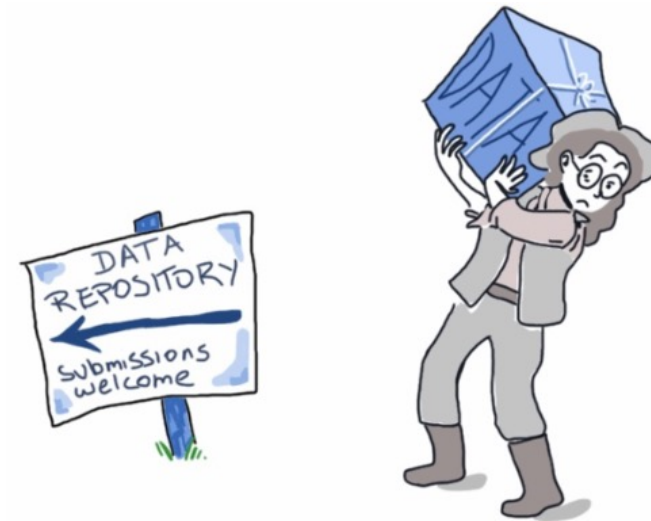
- OCS Life Sciences
 - CRO based in 's-Hertogenbosch, Netherlands
 - Specialist CRO that provides professional services within the life sciences industry
 - Part of OCS Consulting
 - Technology solutions and support
 - Managed services
 - Life sciences
- Presenting: Louella Schoemacher



LSAF - What is it?



- Life Science Analytics Framework
- Cloud based solution hosted by SAS
- Data repository and computing environment



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- A horizontal toolbar containing various icons for file operations, editing, and navigation. The icons include a file explorer, a folder, a document, a pair of scissors, a copy icon, a paste icon, a text tool, a selection tool, a download icon, a right arrow, a save icon, a print icon, a refresh icon, a lock icon, an eraser icon, a flag icon, a text tool, a trash icon, a signal icon, and a play icon.

[/Hands-On_Demos/OCS/OCS LS Process flows/OCS LS Process Flows Lifecycle/dev/jobs](#)

-  Text to filter

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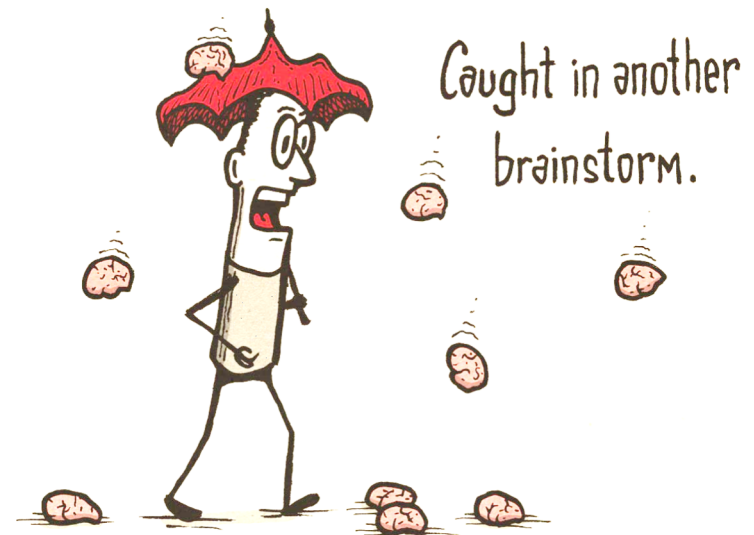
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LSAF set-up - Design



- March 2020
- Workshop & brainstorm sessions
 - OCS subject matter experts
 - Client end users
- Folder structures
- Permissions & privileges model





LSAF set-up - UAT and demo

- User Acceptance Testing
 - SAS test script and user guide as basis
 - Clients specific requirement
 - Involved client subject matter expert, IT manager and OCS consultants

- Demo's suited for different types of users
 - Repository vs. workspace
 - Uploading data
 - Browsing and filtering data
 - Programming and creation of jobs



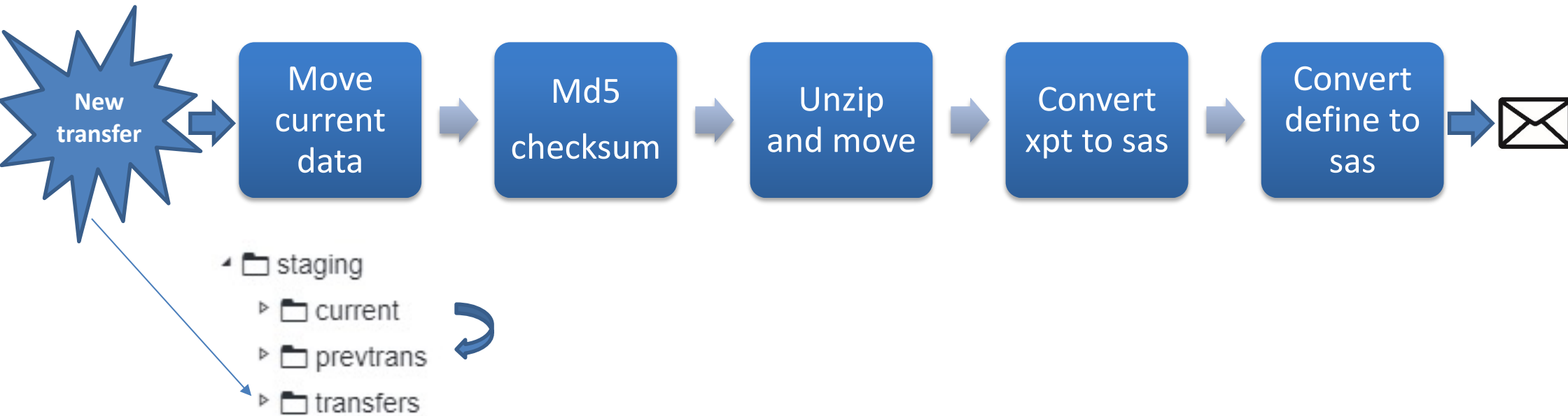
LSAF in day-to-day activities

- October 2020
- Process flows to move data
- Jobs to facilitate data managers in their activities
- Data standards
- Familiarisation with LSAF



LSAF in day-to-day activities – Process flow

- Controlled and traceable way of processing new data transfer
- Notifications by e-mail or internal message





LSAF in day-to-day activities – Jobs for data transfers

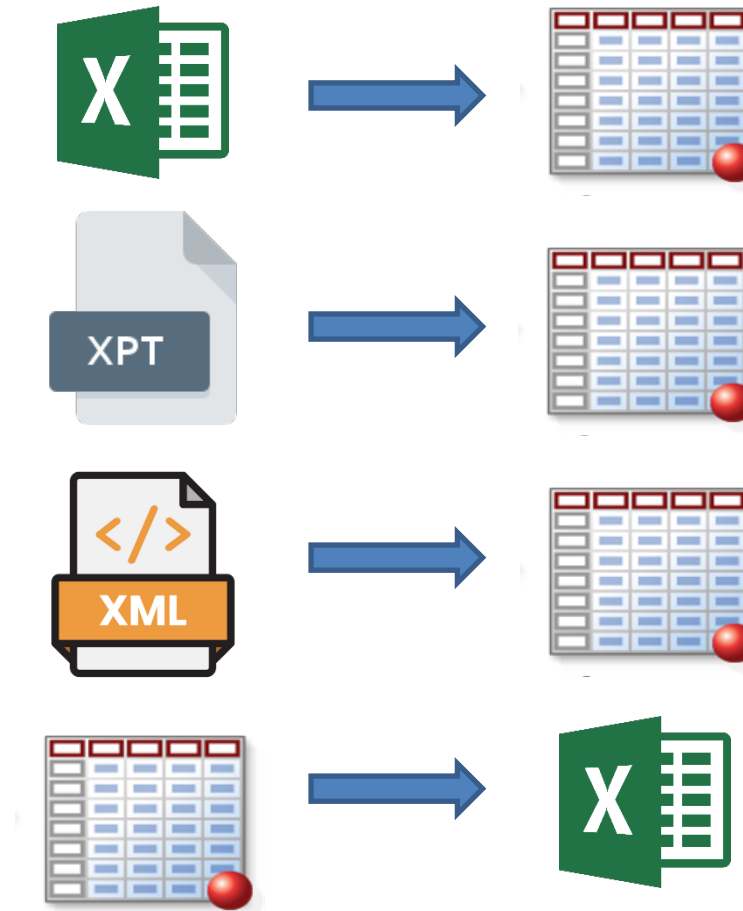
- Copy jobs
 - Current to production
 - Current to previous transfer folder
 - Copy to next state
- Set-up jobs
 - Set-up new general folder

	A	B	C	D	E	F	G	H
1	copy	path_name	name	size	last ModifiedBy	lastModified	date LastModified	path
2		/ae.xpt	ae.xpt	7040	User	Tue Nov 03 09:44:51 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/ae.xpt
3	X	/cm.xpt	cm.xpt	13920	User	Tue Nov 03 09:44:52 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/cm.xpt
4		/da.xpt	da.xpt	5120	User	Tue Nov 03 09:44:52 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/da.xpt
5	X	/dm.xpt	dm.xpt	3840	User	Tue Nov 03 09:44:52 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/dm.xpt
6		/ds.xpt	ds.xpt	4000	User	Tue Nov 03 09:44:52 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/ds.xpt
7		/ex.xpt	ex.xpt	4240	User	Tue Nov 03 09:44:52 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/ex.xpt
8		/ie.xpt	ie.xpt	2560	User	Tue Nov 03 09:44:52 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/ie.xpt
9		/mh.xpt	mh.xpt	7920	User	Tue Nov 03 09:44:52 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/mh.xpt
10		/relrec.xpt	relrec.xpt	1920	User	Tue Nov 03 09:44:53 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/relrec.xpt
11	X	/sc.xpt	sc.xpt	4000	User	Tue Nov 03 09:44:53 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/sc.xpt
12	X	/se.xpt	se.xpt	3840	User	Tue Nov 03 09:44:54 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/se.xpt
13	X	/sv.xpt	sv.xpt	3280	User	Tue Nov 03 09:44:54 GMT 2020	11/3/2020 9:44	/clinical/compound/indication/study/dm/current/sv.xpt



LSAF in day-to-day activities – Jobs for conversion

- Excel to SAS
- XPT to SAS
- Define to SAS
- SAS to Excel





LSAF in day-to-day activities – Jobs for data review

- Compare datasets

- Create data profiles

- Create AE and CM timelines

- Create weekly listings for CTT

Timeline for subject XXX-XXX-XXX-XXX

	Test	Subject	Location	Screening	Visit1	Visit2	Visit3	Visit4	Visit5	Visit6
DS	Assessment1	Test001	Head	1	1	1	0	1	0	0
EC		Test001	Neck	2	2.3	2.3	2	2	1	1
EG		Test001	Eyes	0	0	0	0	0	0	0
IS		Test001	Mouth	2	2	2	1	2	1	1
LB		Test001	Ears	2	2	2	2	0	0	0
Vendor1		Test001	Nose	0	0	0	2.3	0	0	0
LB		Test001	Teeth	1	1	1	2.3	0	0	0
Vendor2		Test001	Tongue	5	5	5	5	2.3	2	2
LB		Test001	Throat	2.3	2.3	2.3	2.3	2	0	0
Vendor3		Test001								
PC	Assessment1	Test001								
PE	Subscore	Test001		15.3	15.6	15.6	16.9	9.3	4	4
QS										
vs										

Category Medication Toxicity Grade 1

Standard Incidence Rate	End Date Time of Adverse Event
	2019-12-12
X	

LSAF in day-to-day activities – Jobs QC

- Development → Validation → Production
- Versioning
- Signing
- Audit trail

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☐	↑	Name	Size	Modified By	Signed	Repository Version	Workspace Status
☐	☰	Functional Specification Job Compare Datasets.docx	39.75 KB	Louella Schoemacher		1.3	✔
☐	☰	Manual job compare_datasets.docx	516.37 KB	Louella Schoemacher		1.2	✔
☐	☰	Operational Qualification Job Compare Datasets.docx	89.65 KB	User1	✓	1.8	
☐	☰	Test evidence screenshots Job Compare Datasets.docx	1.57 MB	User1		1.1	

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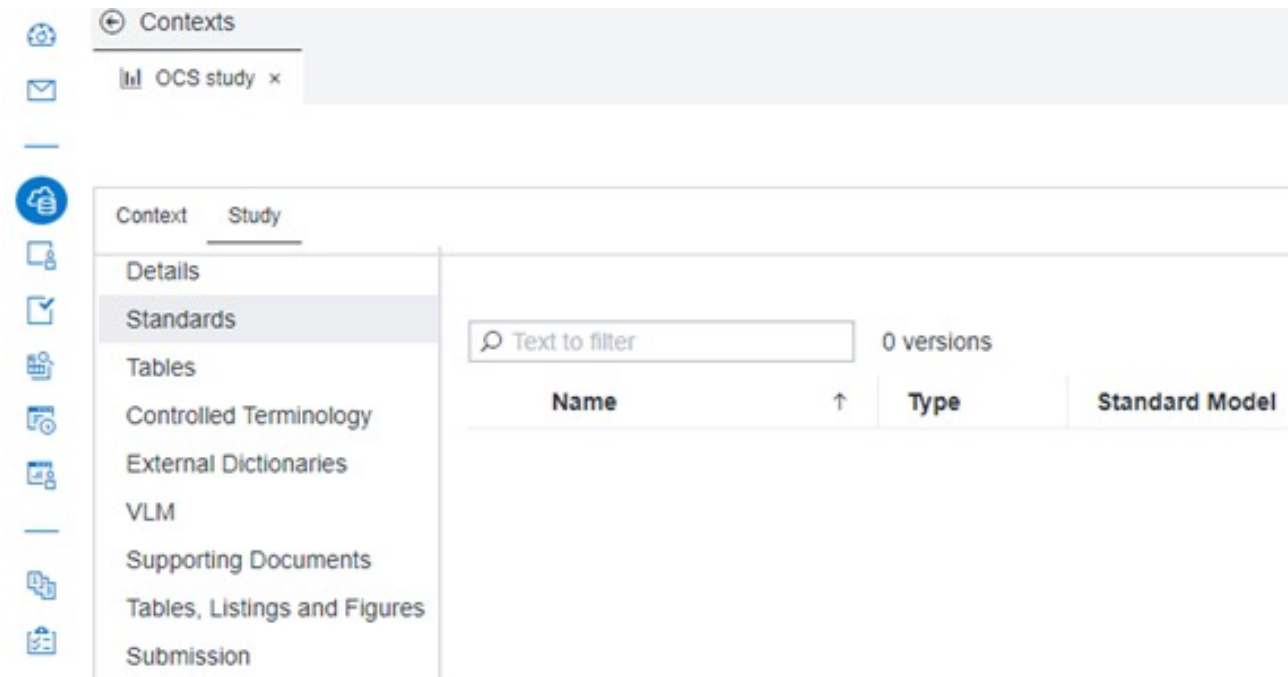
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LSAF in day-to-day activities – Data standards

- Clients data standards
- Controlled terminology
- Job for comparison of study define.xml with library
 - Datasets, variables and codelists
 - In library not in study vs.
In study not in library





LSAF in day-to-day activities – Demo and documentation

- Demo
 - Uploading new data transfers
 - Running jobs
 - Data browsing
- Wiki
 - Best practices
 - How to use LSAF
 - Available jobs

Checking files in to repository

If the files should become available in repository there are two options:

1. The file does *not yet exist in the repository*. In that case, first add for addition to the repository (left red box) and after that, check in to repository (right red box).

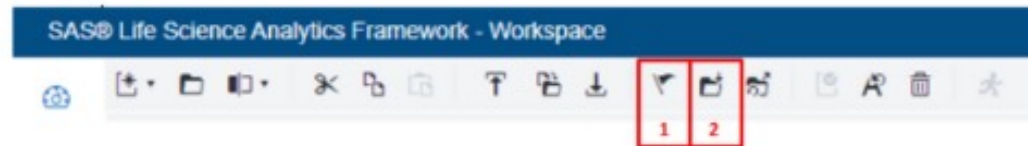


Figure 3. Add to repository icon (left) and check in to repository icon (right)

2. The file does *already exist in the repository*; in this case there is no need for marking this file. The file can immediately be checked into repository.

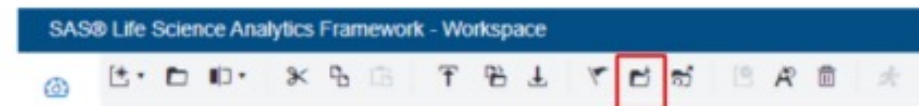


Figure 4. Check in to repository icon (right)



What is next

- Client
 - Moving from a traditional network drive to LSAF
 - Designing of jobs in LSAF to facilitate data managers in QC
- SAS
 - Development of new versions of LSAF
- OCS
 - Working at the clients to help in developing new jobs
 - Administrative tasks



Take home messages

- Availability of subject matter experts on each phase of the LSAF implementation and usage process
- Utilising LSAF for data management to manage, review, process and transfer data in a *structured and traceable* way

Thank you!



- SD05 Using jobs and Macros API to create a structured, controlled and personalised LSAF environment
- SM08 Automation of Process Flow Instances
- sasquestions@ocs-consulting.com

