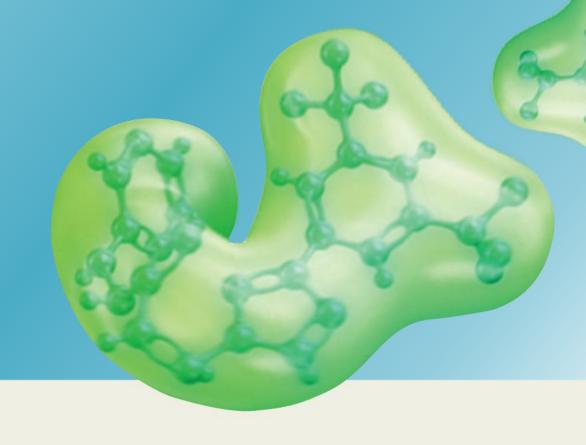


VEEVA VAULT CASE STUDY

The Evolution of Submission and RIM Processes at Karyopharm

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Associate Director Regulatory Technology and Operations



Disclaimer

The views and opinions expressed in this presentation are solely those of the author and do not reflect the official policy or position of Karyopharm Therapeutics, Inc.



THE FIRST 30 (DAYS)



Jan 2015 – New Position, Expanded Role, Let's Assess...

Imminent and/or Planned Submissions (like...today)?

Technology Assessment

Process Assessment

Cross-Functional Relationship Assessment

URGENT NEED FOR eDMS

Individual Assessments Results

Tech

- Shared 'Public' Drive
- Loose Collection of 'Immature' SharePoints
- 'Band-Aid / Budget'
 SaaS Document
 Repository (...Just
 Awful, but a Necessity)
- Death by Excel...

Proc

- Source Documents
 Scattered
- Document Storage Inconsistent, Varied by Content Provider
- Documents Emailed to Submission Provider
- No Authoritative Source

X-Func

- Information Silos
- No Uniform Flow of Information, Docs, etc.
- Functional Scope & Responsibility Varied

Tech/Proc was Responsible for this...



PRIMARY CONCERN



B.V.E. (Before Veeva Era)

Planning for submissions... Where are the source documents?

Network? SharePoint? Desktop? Email? Black hole...





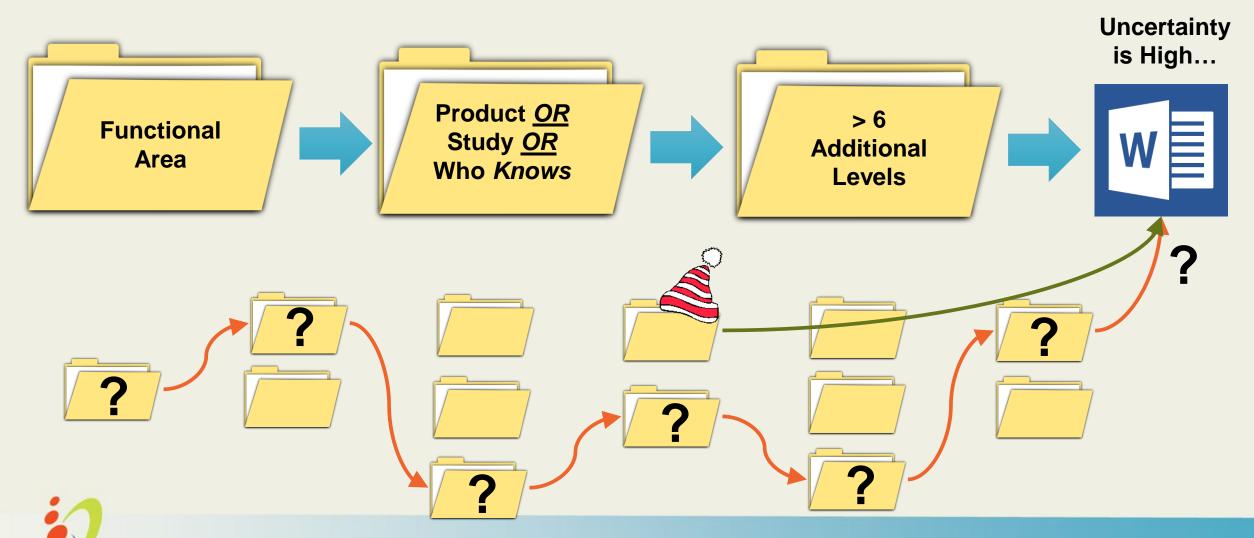






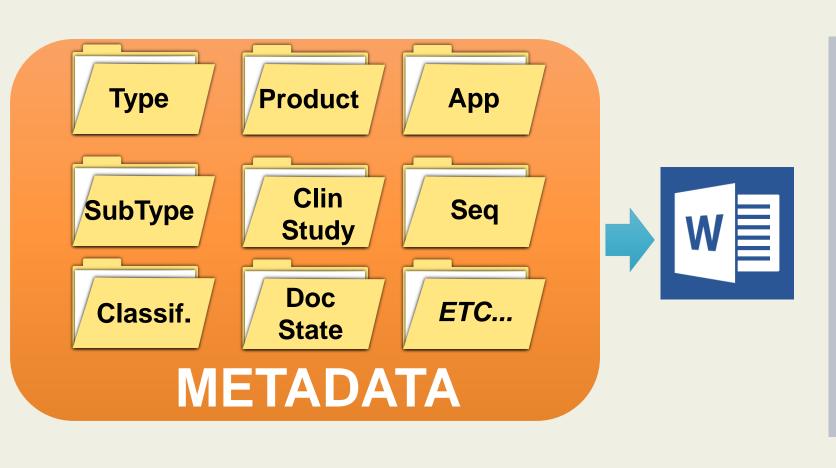
B.V.E. (*Before Veeva Era*) – Content Retrieval

Single-Dimension Search



D.V.E. (*During Veeva Era*) – Content Retrieval

Multi-Dimension Search





- 1) Authoritative source
- 2) Streamlined retrieval
- 3) Direct connection of source to published doc



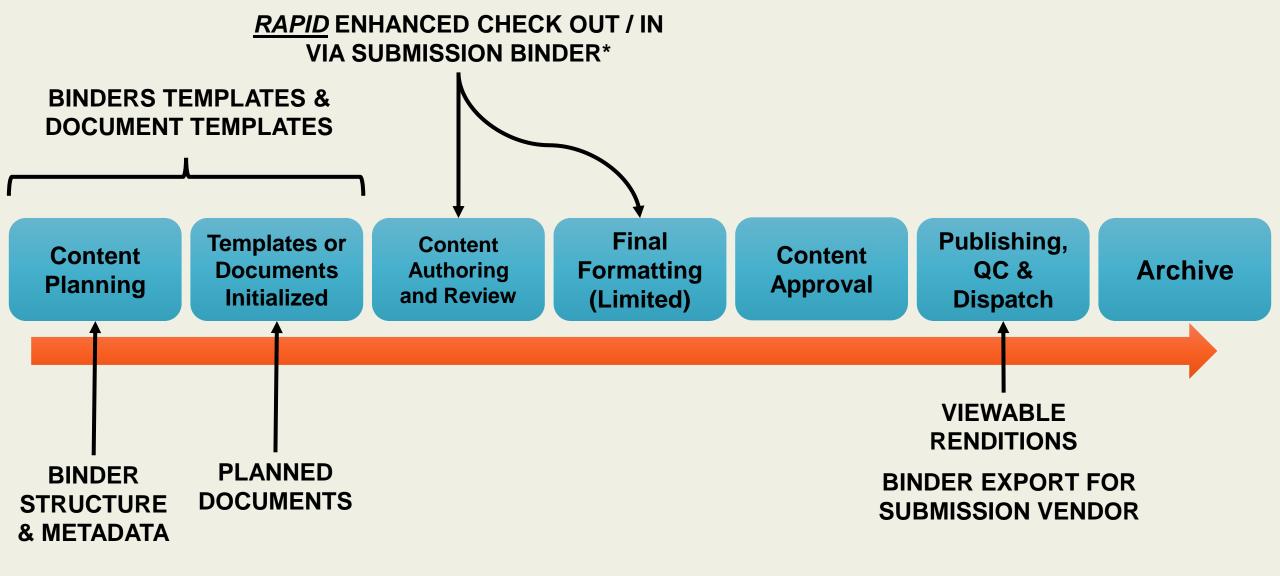
- 1) Document 'safari'
- 2) Incorrect versions usage
- 3) Uncertainty



SUBMISSION OVERVIEW



Typical Submission Process



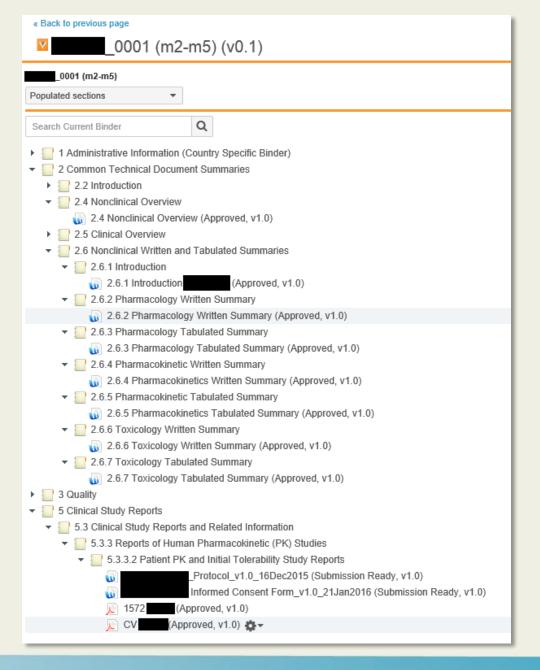


*Amazing Feature

BINDERS



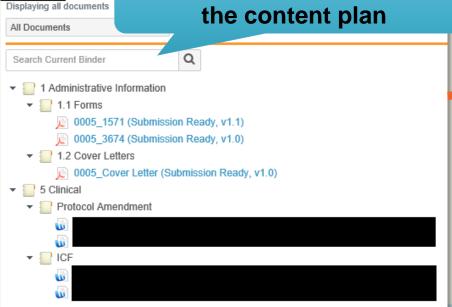
Sample View – Submission Binder





Content Report and Plan

Binder Section (2)		Document (7)									
Section Name ▲	Section Number	Document Name	Expected Transfer Date	Pages	Pub Disposition	eCTD Module	m1 eCTD Section (US)	m2 eCTD Section	m3 eCTD Section	m4 eCTD Section	eCTD File Tag (m4)
Administrative Information	1	0005_1571 (v1.0)	07 Mar 2016	3	Published, QC Required	Module 1 (Regional)	1.1.1 FDA Form 1571: Inv estigational New Drug Ap plication				
		0005_Cover Letter (v1.0)	07 Mar 2016	3	Published, External Linking Required	Module 1 (Regional)	1.2 Cover Letter				
		0005_3674 (v1.0)	07 Mar 2016	2	Published, QC Not Required	Module 1 (Regional)	1.1.1 FDA Form 3674: Ce rtification of Compliance				
Clinical	5		04 Mar 2016	119	Published, QC Not Required	Module 5 (Clinical)					
			04 Mar 2016	116	Published, QC Not Required	Module 5 (Clinical)					
			04 Mar 2016	20	Published, QC Not Required	Module 5 (Clinical)					
			07 Mar 2016	20	Published, QC Not F quired	Module 5 (Clinical)					
	Submis	sion binder	enhances								

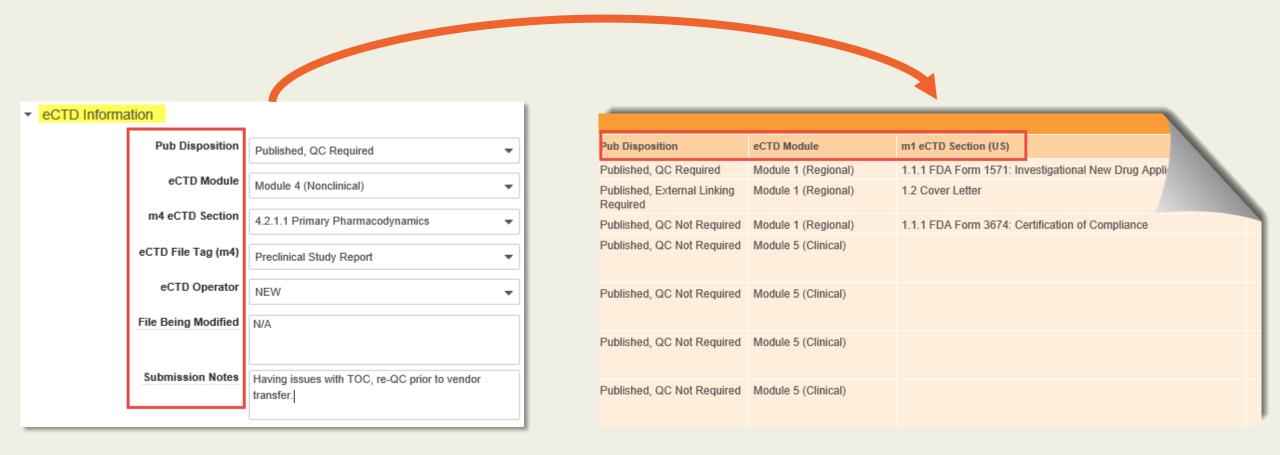


Why build and maintain a separate plan if your binder IS your submission plan with the addition of some 'smart' metadata and reporting?

m5 eCTD Section	eCTD File Tag (m5)	eCTD Operator	File Being Modified	Submission Notes	
		NEW			
		NEW			
		NEW			
5.3.3.2 Patient PK an d Initial Tolerability S tudy Reports		REPLACE	Protocol v1, Seq 0001		
5.3.3.2 Patient PK an d Initial Tolerability S tudy Reports		NEW			
5.3.3.2 Patient PK an d Initial Tolerability S tudy Reports		REPLACE	ICF v1.0, Sequence 00 01		
5.3.3.2 Patient PK an d Initial Tolerability S tudy Reports		NEW			

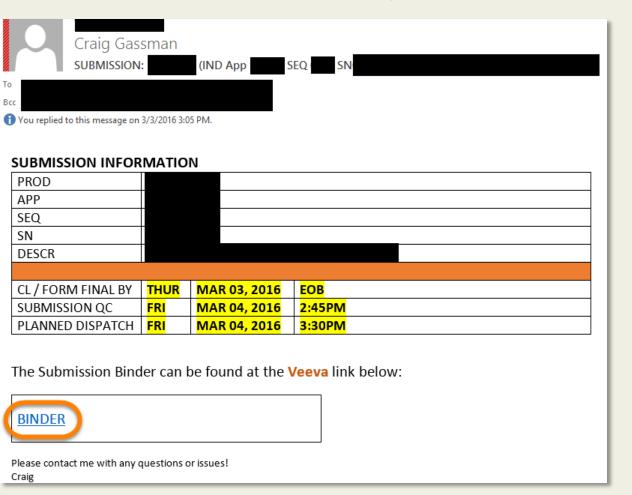


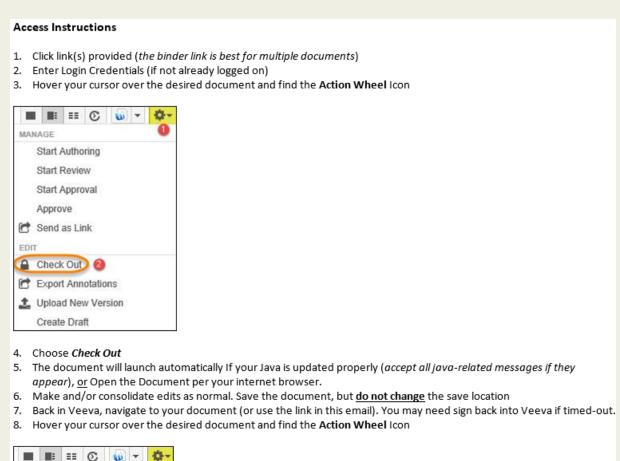
Metadata **Drives** the Content Plan





Submission Email, Content Links and Access Instructions





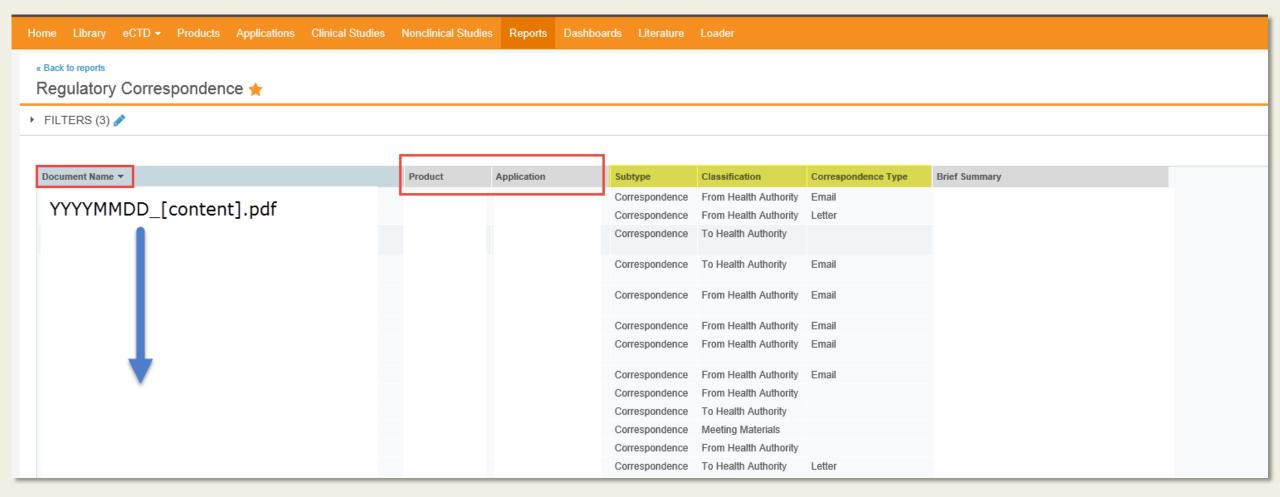
Content Providers and RA Colleagues are noticeably more confident when provided 'just-in-time' instructions pending on their activity Ex: Check out/in instructions, downloading renditions, etc.



REG INFO MANAGEMENT



Correspondence Reporting

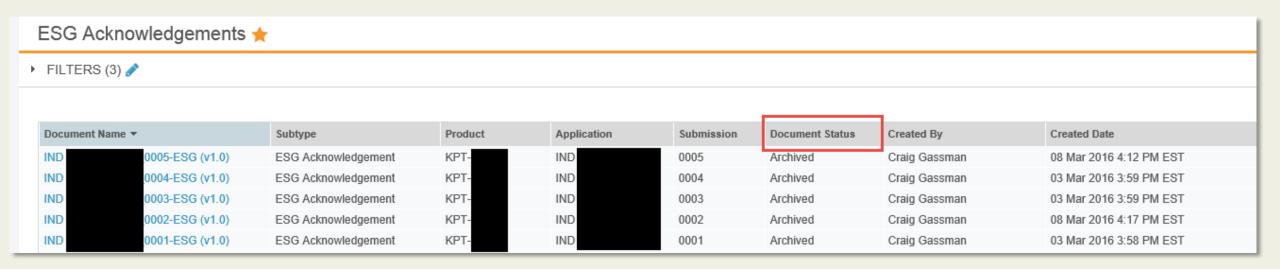


Previous: Numerous (versions of) Excel trackers

RA colleagues verdict = <u>Awesome</u>



ESG Acknowledgements Report

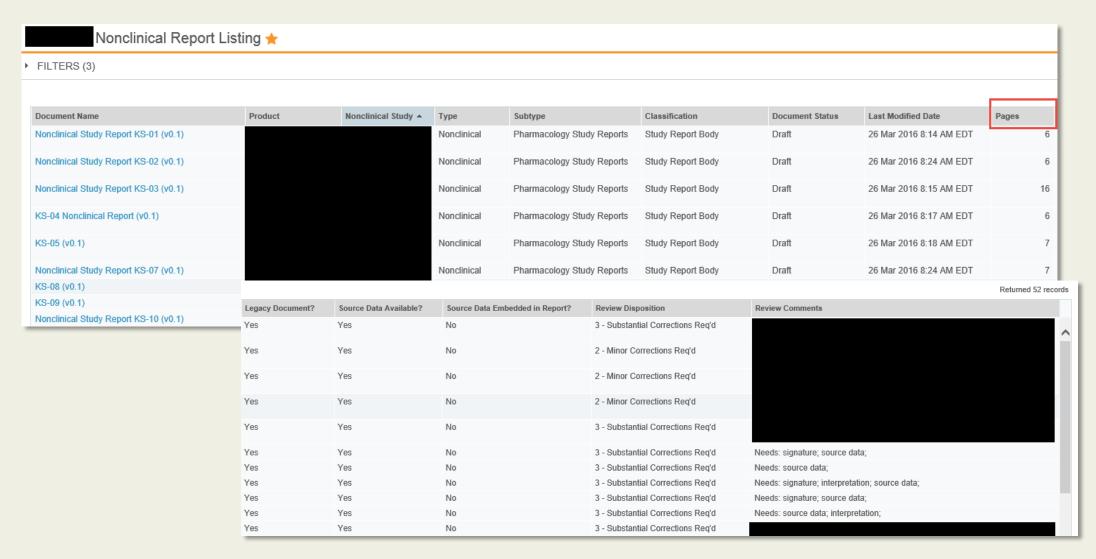




OTHER REPORTING

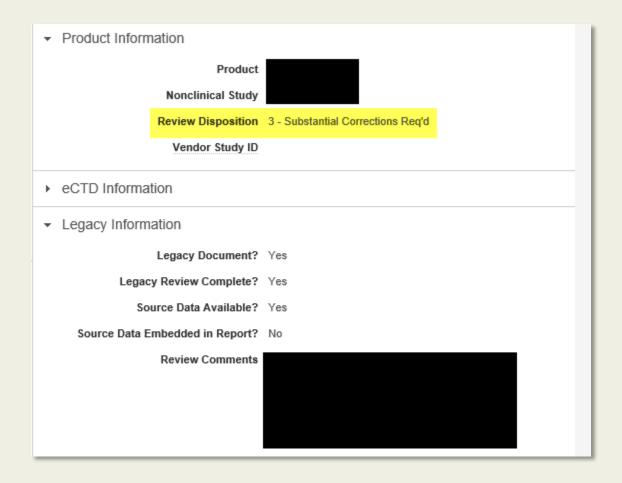


Nonclinical Report Review



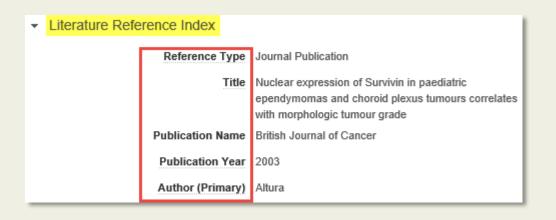


Metadata-Driven Reporting





Literature Reference Example



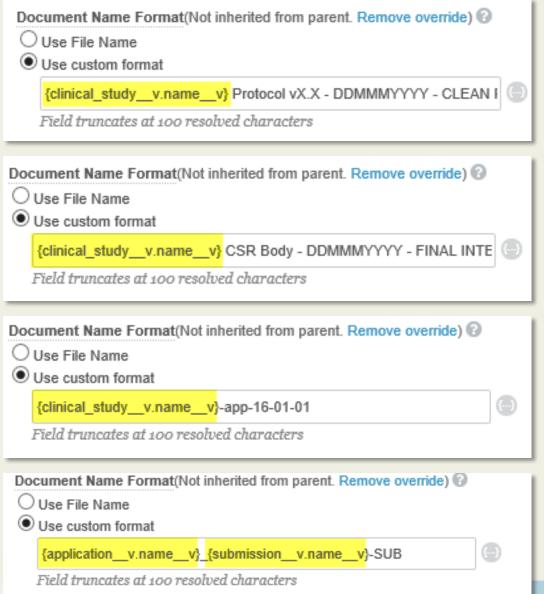
Document Name A	Title	Publication Name	Publication Year	Author (Primary)	Reference Type	Document Status
A Functional Connection between RanGTP NF-kB and Septic Shock (v1.0)					Journal Publication	Submission F
A chemical genetic screen identifies inhibitors of regulated nuclear export of a Forkhead transcript (v1.0)					Journal Publication	Submission F
Adaptation of Pandemic H1N1 Influenza Viruses in Mice Journal of Virology (v1.0)					Journal Publication	Submission F
Altura-2003-British Journal of Cancer (v0.1)	Nuclear expression of Survivin in paediatric ependymomas and choroid plexus tumo urs correlates with morphologic tumour grade	British Journal of Cancer	2003	Altura	Journal Publication	Draft
Animal models for influenza viruses implications for universal vaccine development (v1. 0)					Journal Publication	Submission F
Antiviral Agents for the Treatment and Chemoprophylaxis of Influenza (v1.0)					Journal Publication	Submission F
Antman-1993-Journal of Clinical Oncology (v0.1)	An intergroup phase III randomized study of doxorubicin and dacarbazine with or wit hout ifosfamide and mesna in advanced soft tissue and bone sarcomas	Journal of Clinical Oncology	1993	Antman	Journal Publication	Draft
Antonucci V 2011 (v1.0)					Journal Publication	Submission F
Appledom 2010 (v1.0)					Journal Publication	Submission F
Arias-Romero LE 2013 (v1.0)					Journal Publication	Submission F
Arnaoutov-2005-Nature Cell Biology (v0.1)	Crm1 is a mitotic effector of Ran-GTP in somatic cells	Nature Cell Biology	2005	Arnaoutov	Journal Publication	Draft



OTHER DISCOVERIES



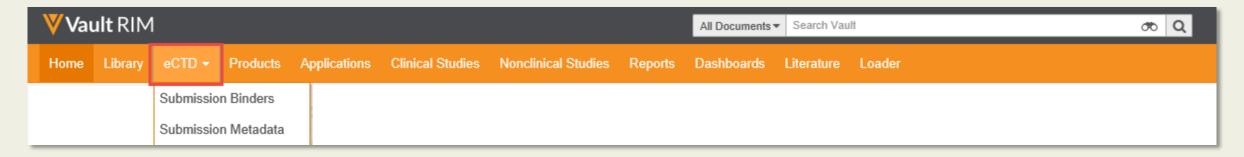
AutoNaming



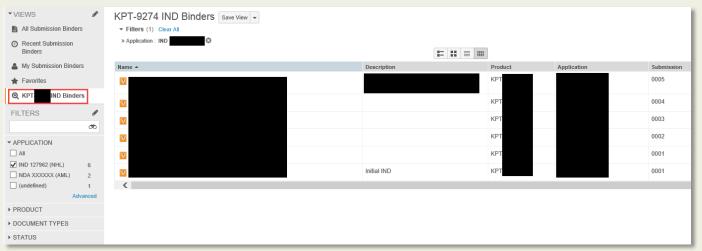
Document Name Format(Not inherited from parent. Remove override)
O Use File Name
Use custom format
{applicationv.namev}_{submissionv.namev}-ARC
Field truncates at 100 resolved characters
Document Name Format(Not inherited from parent. Remove override)
O Use File Name
Use custom format
{applicationv.namev}_{submissionv.namev}-VAL
Field truncates at 100 resolved characters
Document Name Format(Not inherited from parent. Remove override)
O Use File Name
Use custom format
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O Use File Name
Use custom format
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Field truncates at 100 resolved characters

Configurable Tabs

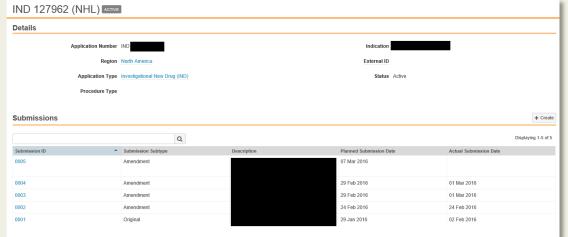
Sub-Container



Submission BINDER

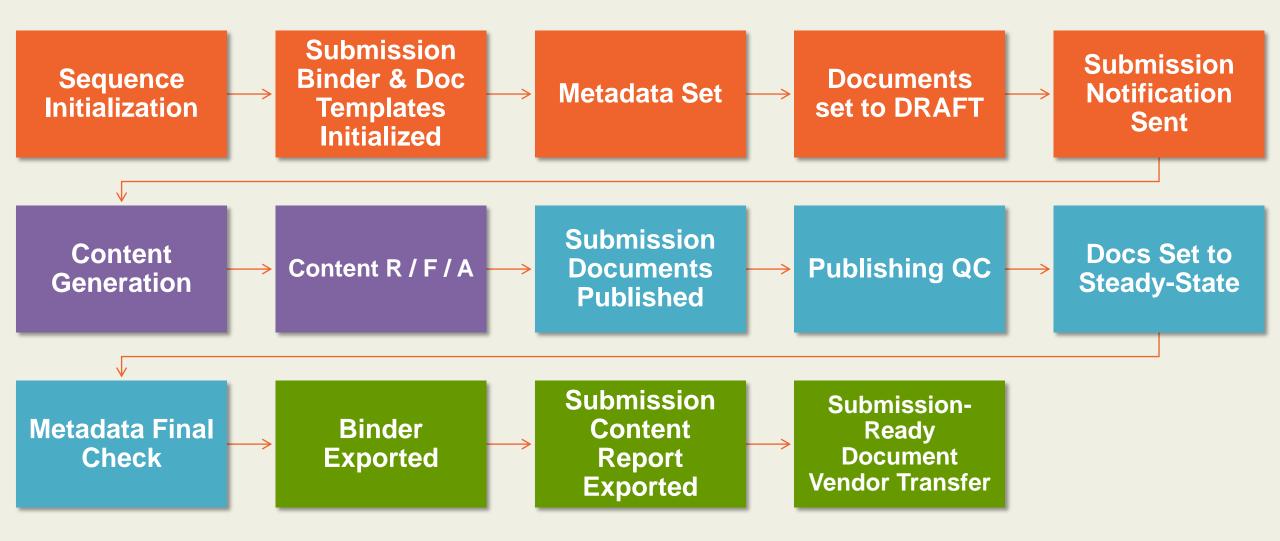


Submission OBJECT



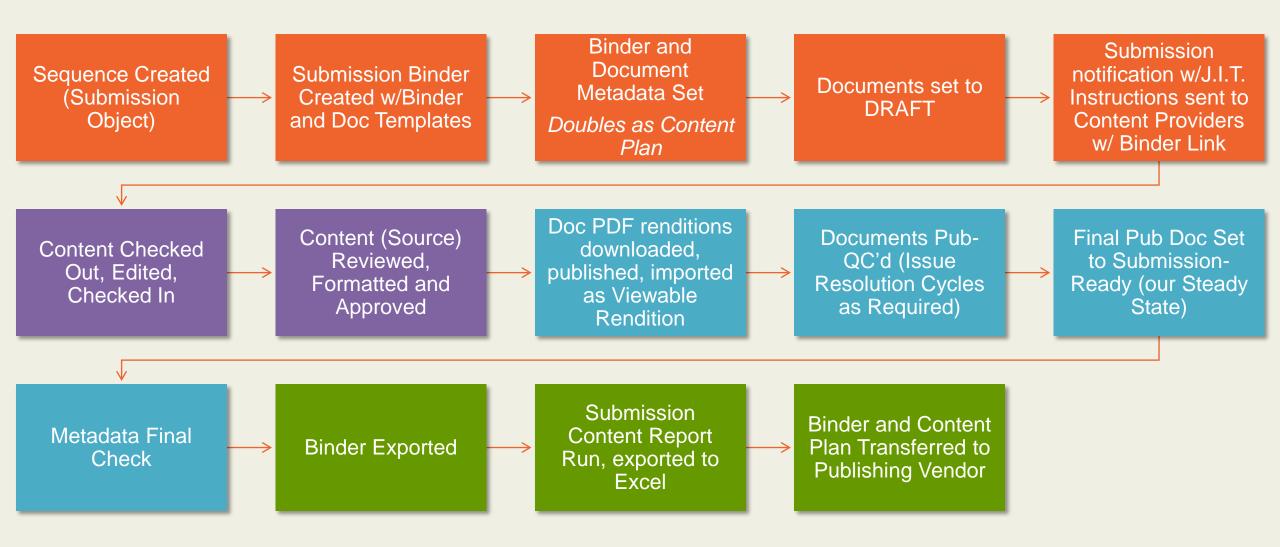


Evolving Process – Submission Pilot (Summary)





Evolving Process – Submission Pilot (Details)





Lessons Learned

eDMS is one of your most important tools for submission management and execution

Form an effective implementation team with diverse skills (SMEs, Tech, Quality, etc.)

Continued use of Veeva leads to expanded use of advanced system functionality which ultimately drives process evolution – Change is <u>GOOD</u>.

Implementation vs. Day 1 Process vs. Day 1+X will not be identical, and that is OK! It must be an organic flow to determine best use of Submission Vault functionality.

OPT FOR MANAGED SERVICES & ADMIN TRAINING (Key for user enablement)



THANK YOU!

