

Large Scale Production Using Project Maps

Youssef BENNANI Nov 13, 2016



Agenda - DITA-OT Conference – Munich 2016

This presentation will show how SAP has integrated the **DITA Open Toolkit** to create a large-scale production infrastructure able to build 60 000+ outputs daily for SAP product documentation. This covers the end-to-end process from DITA CMS to delivery channels, using **project maps** as a key ingredient.

Introduction : SAP environment

- DITA Adoption and growth
- DITA Process and Landscape overview

DITA Production process @SAP

- Project(*) production life cycle based on project map
- **DITA Open Toolkit** integration into the production landscape
- Peer linking across outputs as example of advanced feature
- Infrastructure optimization to scale

(*) Project : documentation set for a product shipment

Introduction : SAP environment

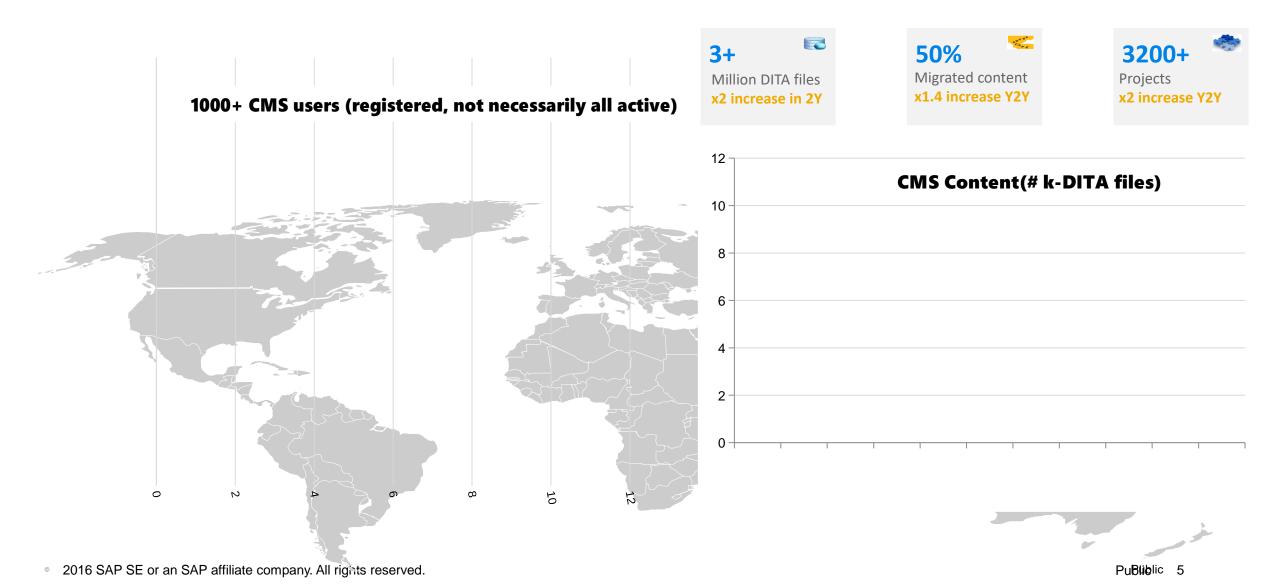


• 2016 SAP SE or an SAP affiliate company. All rights reserved.

DITA implementation @SAP

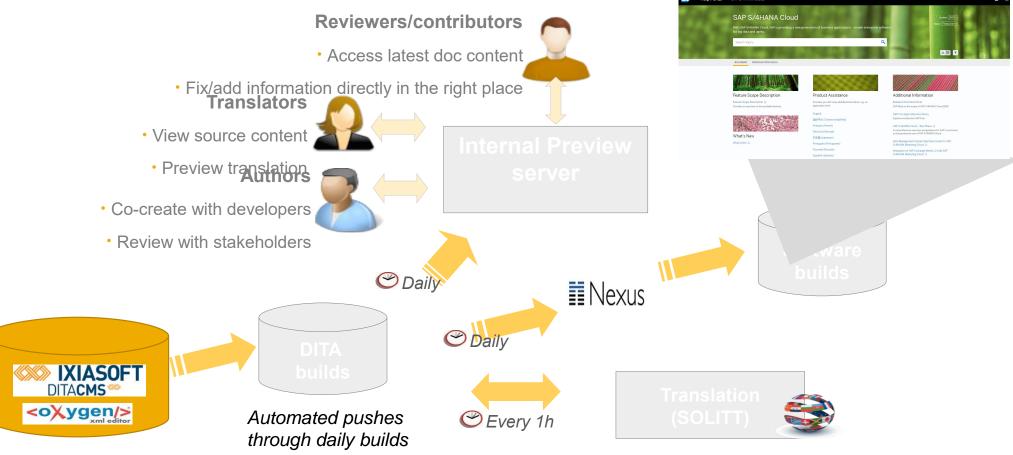
General decision to use DITA	CMS evaluation and selection	Initial implementation and migration	Continuous improvement and incremental growth	Evaluation and decision to broaden	Migration and scaling
H2 2011	Q1 2012	Q2 2012-2013	2014	2015	2016
		150 authors	300 auth	ors	700+ authors
		First products	100 proc	lucts	300 products
		First 12 languages	21 languages 12k+ outputs (daily)		47 languages
		First outputs based			60k+ outputs (daily)
		on DITA Open Toolkit			

Some statistics



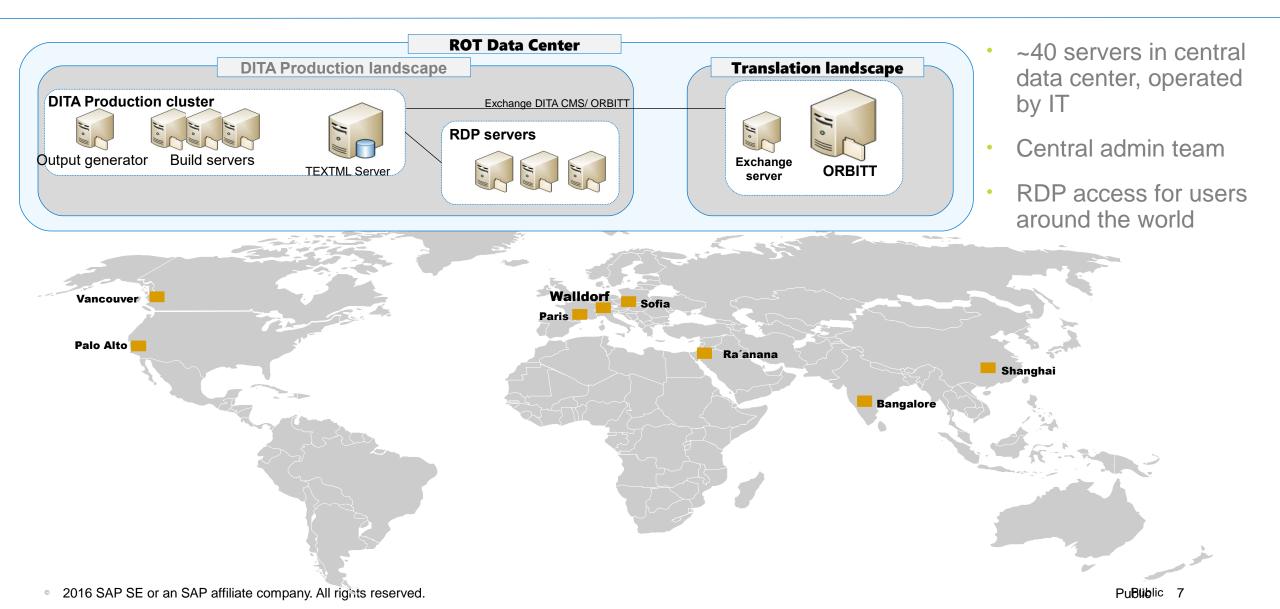
Day-to-day process overview

- Content validation, technical checking, and translation of documentation begins early and is performed continuously
- Final preparation before publication is reduced to minimum



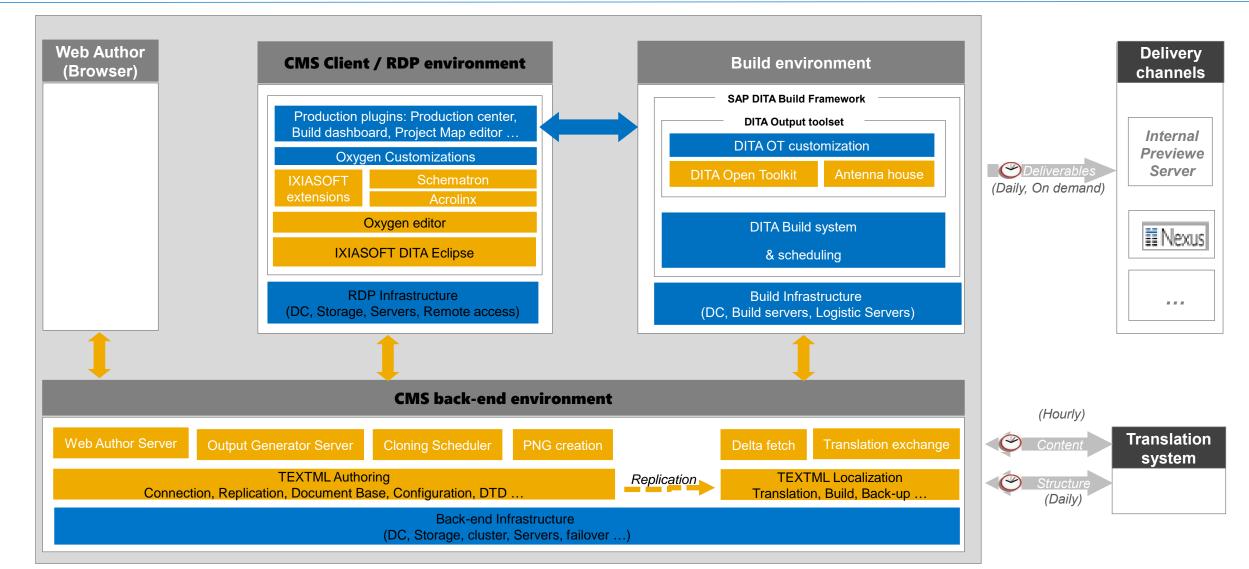
2016 SAP SE or an SAP affiliate company. All rights reserved.

SAP DITA Landscape overview



SAP DITA Landscape detailed view





2016 SAP SE or an SAP affiliate company. All rights reserved.

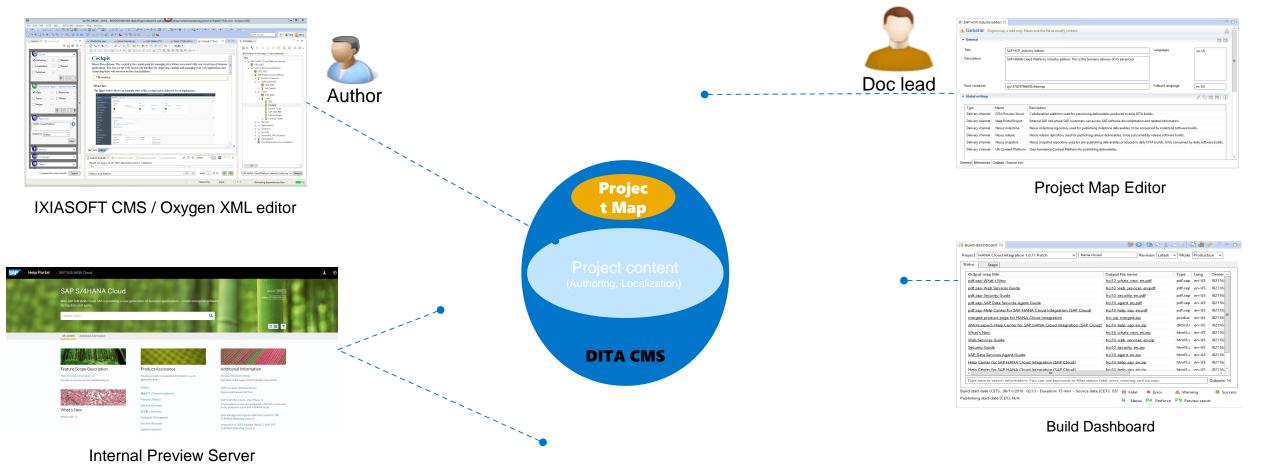
DITA Production process



• 2016 SAP SE or an SAP affiliate company. All rights reserved.

Project production lifecycle

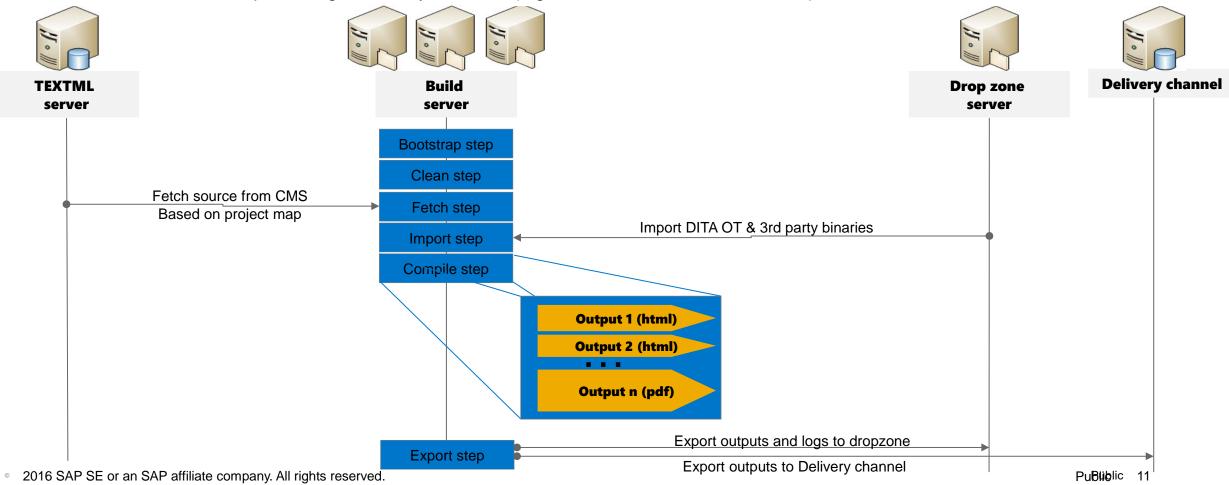
- The project map defines the configuration of project's outputs and publishing
 - The consistency and enablement of the project production lifecycle is defined in one place : project map
 - It's a ticket free life-cycle : moving across the cycle is either self-service or automated



DITA build landscape

DITA Output toolset (using DITA Open Toolkit)

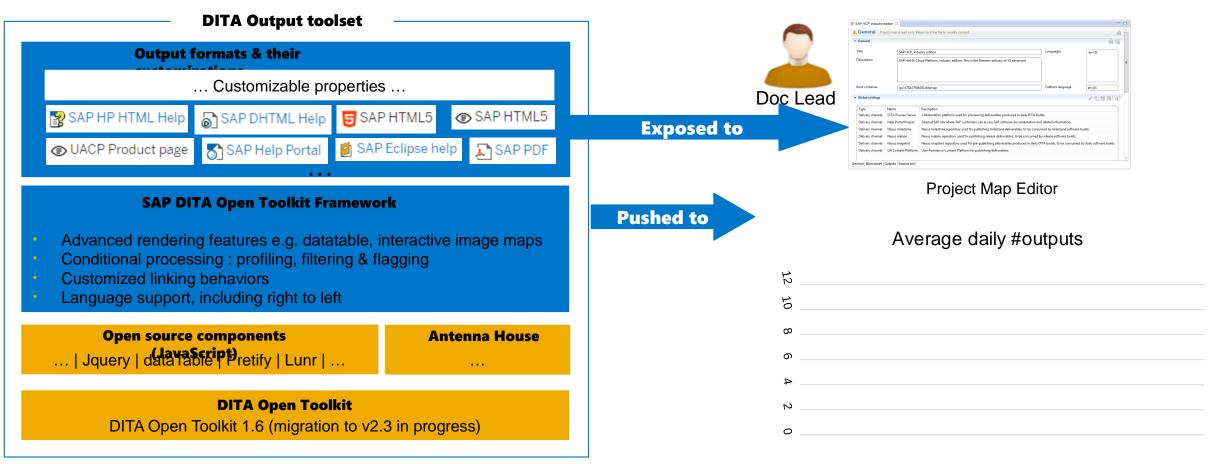
- Build lifecycle uses highly performant production framework with parallel compilation
 - Project configuration information defined in project maps is:
 - transformed into properties passed to DITA Open Toolkit for producing branded SAP outputs (with SAP customizations)
 - used for automated publishing to delivery channels (e.g. Nexus, UA Content Platform...)



DITA Output toolset enhancement cycle

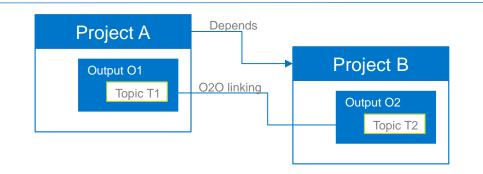


- Continuous improvements in DITA Output toolset
 - Output formats (20+) and their customizable properties (100+) are **exposed** to Doc Leads through Project Map Editor
 - Integration of Open source components where applicable for better user experience
 - Toolset changes are **pushed** automatically to daily builds after passing acceptance tests \rightarrow Quality assurance to +60k daily outputs

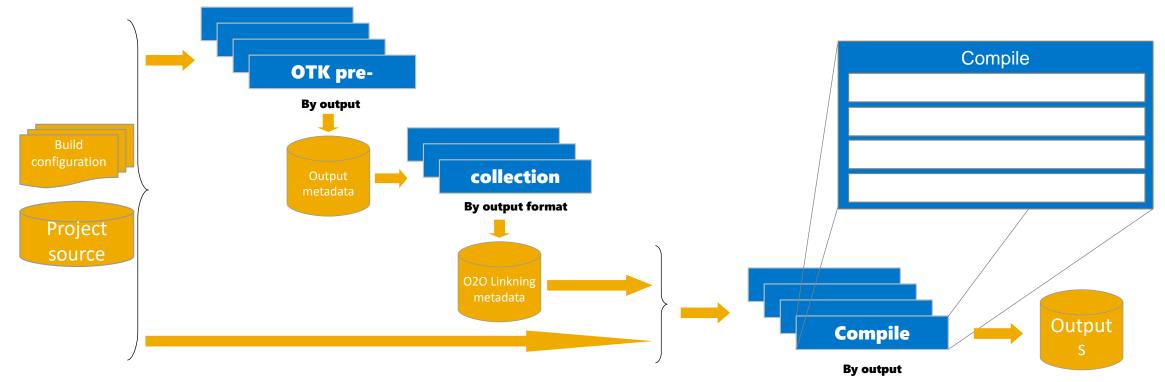


Output-to-output (O2O) linking within documentation set

 Enables linking between outputs of the same collection (output format e.g. html5) within the same project or in the project dependency tree



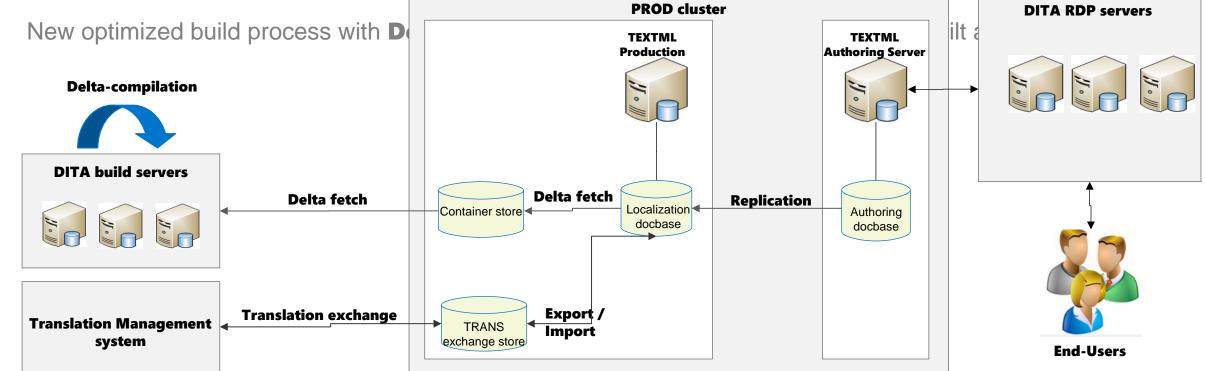
• Implemented in daily Build (compile step)



2016 SAP SE or an SAP affiliate company. All rights reserved.

Recent scaling activities (to accommodate growth)

- New architecture to support **project dependencies** in the CMS (project map) and in the build process
- New Document base split architecture (one document base for authoring, another for localization and production) with replication process to insulate authoring work from the performance impact of translation and production
- New Delta Fetch mechanism for faster build process



Key takeaways and learnings

- Rely on leading industry solutions and Open Source technologies where applicable
- Large volume requires continuous optimization of the landscape
- It's key to build an internal community of stakeholders and experts to foster innovation and internal support
- It's important to have a regular upgrade strategy (e.g. DITA Open Toolkit) and engage with external community to take advantage of updates and recent enhancements





Thank you

Contact information:

Youssef Bennani

Head of Engineering Services France

Prochartsor & Annowation, Alecharlogy

© 2016 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see http://global12.sap.com/corporate-en/legal/copyright/index.epx for additional trademark information and notices.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forwardlooking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.