



sauce

D2.1 (v2)

Report on extension of digital asset types and reuse scenarios

Grant Agreement nr	780470
Project acronym	SAUCE
Project start date (duration)	January 1st 2018 (36 months)
Document due:	30th April 2018
Actual delivery date	30th April 2018
Leader	Foundry (FO)
Reply to	sara.coppola@foundry.com
Document status	Final

Project funded by H2020 from the European Commission

Project ref. no.	780470
Project acronym	SAUCE
Project full title	Smart Asset re-Use in Creative Environments
Document name	Report on high-level control APIs and methods
Security (distribution level)	CO – Confidential
Contractual date of delivery	30/04/2018
Actual date of delivery	30/04/2018
Deliverable name	D2.1 Report on extension of digital asset types and reuse scenarios
Type	Report
Status & version	2.0
Number of pages	15
WP / Task responsible	WP2 – Scenario Requirements / Foundry
Other contributors	Dneg, FA, IK
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Abstract	The following document aims to define the rationale behind the need for a domain specific search, recovery and reuse system in the vfx industry and to define clear use cases for the partners to verify their solutions in workpage 4 against.
Keywords	Smart Assets, Asset Reuse, Asset Discoverability
Sent to peer reviewer	Yes
Peer review completed	Yes
Circulated to partners	
Read by partners	
Mgt. Board approval	

Document History

V1 30/04/2018	Document completed for submission
V2 22/10/2018	Updated the executive summary, soa, examples & conclusion to be more concise based on feedback from wavecrest in the WD1.2.1 QA report
V3 26/11/2018	Corrected Typo's as indicated by dneg's review on the 20/11/2018. And fixed inconsistency with section numbering.

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1. Executive Summary

The following document aims to define the rationale behind the need for a domain specific search, recovery and reuse system in the vfx industry. The document will also provide clear use cases for the partners to verify their solutions against work package 4.

Sections 2.1 and 2.2 provide an overview of the problem space and where it differs from existing search domains to justify the need for new systems to be constructed to effectively classify, categorise and search vfx data.

In order to quantify concrete examples, Foundry has consulted with the consortium partners to define a core set of digital reuse scenarios, listed in section 3.

In particular the items have been reviewed by Double Negative based on the needs of vfx production and how to improve upon the current state of the art system.

Foundry have also investigated the current state of the art techniques used by Double Negative to search/retrieve assets in their infrastructure in order to create a list of commonly reused asset types, listed in section 4.

Current systems (keyword search/tagging) are ineffective at classifying complex data such as fluid simulations and animated creatures. Additionally they do not provide methods to evaluate the re-usability of an asset in a different context such as reusing part of an animation from one asset on another via transformation.

In order to address the shortcomings of existing solutions we are proposing the creation new systems for classification, transformation and discovery. Smart asset descriptors ¹, search ² & transformation ³ frameworks will be created in future work packages to be able to more effectively manage this data.

The scenarios and asset types contained in this document are intended to be used to validate the approach that Double Negative will use for the Search ² & Transformation ³ Frameworks being prototyped in Work Package 4 & 5 which will leverage platforms created by Foundry in WP 5 & 7 to store and process the data efficiently.

Finally in section 5 the document provides at a high level overview and architecture diagram of the modular design to combine these systems into a proof of concept prototype in later deliverables D4.1, D5.3 & D7.1

1 Smart Asset descriptors to be defined in later deliverables D2.3 & WP4

2 Smart Framework to be defined in later deliverables D2.3 & WP4

3 Smart Asset Transformation Framework to be defined in WP5