Public SSB Fact Sheet: Universal Scene Description (USD)

Projects

Exported on 12/19/2023

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Short description/ Transmitted information	• Open and extensible ecosystem for describing, composing, simulating, and collaborating within 3D worlds.
Normative document	• Current state of the source code (https://github.com/PixarAnimationStudios/OpenUSD) and documentation (https://openusd.org/release/index.html). • USD is planned to be standardized within the Alliance for OpenUSD (https://aousd.org/).
Version/ Release state	• Version 23.11 (https://github.com/PixarAnimationStudios/OpenUSD/releases/tag/v23.11)
Release date	• 26. October 2023
Application scope	• Data Exchange • Collaboration
Goals	• Provide a rich, common language for defining, packaging, assembling, and editing 3D data, facilitating the use of multiple digital content creation applications. • Allow multiple artists to collaborate on the same assets and scenes. • Maximize artistic iteration by minimizing latency.
Promoting bodies	• Pixar, NVIDIA, Alliance for OpenUSD
Type	• Open-Source development
IT Standard classification	• Interoperability Standard
Data format	• Software
Additional available resources	• https://openusd.org/release/index.html • https://developer.nvidia.com/usd • https://aousd.org/ • https://openusd.org/release/usd_products.html

Relevant prostep ivip project groups	• Collaborative Digital Twins (CDT) ? • JT ? • FDX ? • SmartSE ?

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- Development is currently somehow coupled to NVIDIA and its Omniverse software platform. This may change if USD is transferred to the Alliance for OpenUSD.
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- Potential overlap with https://github.com/KhronosGroup/glTF, https://github.com/LudwigFriedmann/OpenMaterial/ and https://www.asam.net/project-detail/asam-openmaterial/

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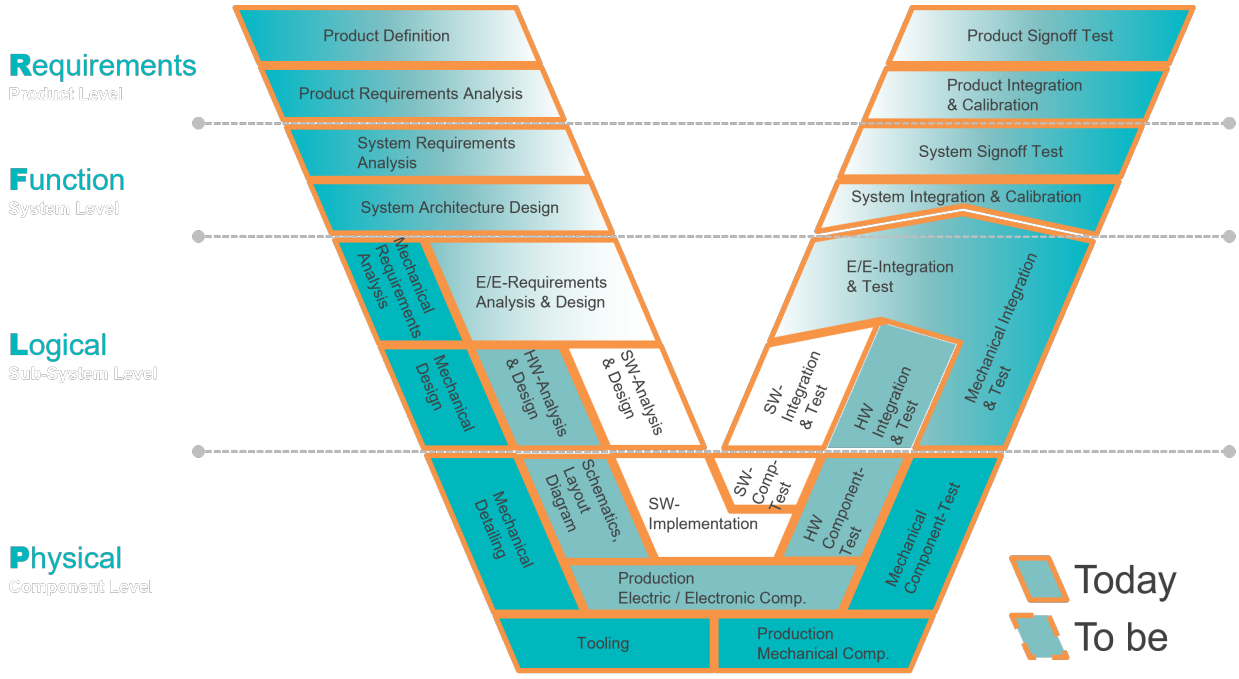

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- Hierarchical data model for scene description, incorporating concepts and APIs for geometry, shading, models and assets
- Matured and proven in movie production

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Datei	Geändert
USD.png[1]	Dez. 14, 2023 by Peter Tabbert[2]

1 https://intranet.prostep.org/download/attachments/130580481/USD.png?api=v2
2 https://intranet.prostep.org/display/~petertabbert