Release Notes – Facilities Lifecycle 3D Model Standard (FL3DMS) Release 1.3

USPI is pleased to announce the latest release of FL3DMS! This release introduces significant enhancements to increase the value, consistency, usability, and alignment with other industry data standards. It includes several new deliverables that facilitate 3D Model development, and reflects extensive collaboration and feedback from stakeholders and is designed to support more effective implementation across projects and organizations.

Key Updates in this release:

- **As-Built Requirements**
  Three options for as-building of the 3D Model have been added, as well as clear guidance on their use. The options ensure that the 3D model will enable the intended use cases in accordance with the selected owner/operator strategy without adding unnecessary costs.
- **Vendor Packages / Skids Requirements**
  New provisions define expectations for vendor-supplied packages and skids, ensuring that data and documentation are delivered in a standardized format compatible with project requirements.
- **Updated Content Requirements Matrix**
  The content requirements matrix has been updated with additional requirements. The mapping to NORSOK Z-020 has been updated. Multiple views for using the content matrix have been added.
- **Introduction of a 3D Model Engineering Deliverables List**
  This list identifies the different types of engineering deliverables that may be generated from the 3D model. It enables owner/operators to specify required engineering deliverables to their FEED or EPC contractors, and EPCs to specify similar requirements to Module or Skid suppliers. This list is fully mapped to the CFIHOS Discipline Document Types.
- **Creation of a Data Model and Dictionary**
  A comprehensive data model and supporting data dictionary have been introduced to establish consistent definitions, attributes, and relationships across all elements of the standard. Key deliverables from the Deliverables list

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have been used to define the data model. The Data Model is fully aligned with the CFIHOS and CII AWP Data Models.

- **Requirements Management and linking to CFIHOS requirements**
  The FL3DMS requirements have all been given requirements numbers, and where relevant these have also been mapped to the corresponding Capital Facilities Information Handover Specification (CFIHOS) requirements. This enables concurrent use of the two standards on project to support interoperability, integration and alignment of data and document deliverables. The mappings are reflected in the Content Matrix, Deliverables List and the Data Model and Dictionary documents.

- **Implementation Guide**
  A new guide has been developed to support organizations in adopting and applying the standard effectively, offering practical steps and best practices.

- **Supporting Checklists**
  Two checklists have been developed to assist development and implementation of 3D Model specifications based on FL3DMS

    - An owner/operator check list to ensure complete definition of 3D Model specifications based on FL3DMS;
    - An EPC contractors / Module supplier check list to ensure at structured approach to configuration of 3D Model applications in compliance with FL3DMS.

Conclusion

This release represents a major step forward in ensuring that project data and documentation are structured, consistent, and interoperable across the industry. We encourage all stakeholders to review the updated materials and integrate them into their processes to realize the full benefits of this standard.

Interested to join the FL3DMS project?

For more information on FL3DMS and how you can be involved, please contact: stichting@uspi.nl or hugo.belder@uspi.nl (FL3DMS project manager)

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