ONUMA, Inc.
Data Management & COBie

Kimon Onuma, FAIA
The tools used to demonstrate the concept are not selected as the only solutions possible, but to illustrate what type of an ecosystem could develop in the next version of DMLSS FM once a services oriented architecture is enabled. Other vendors are encouraged to demonstrate how their solutions fit into the DMLSS FM Ecosystem.
Life Cycle and COBie

COBie between design, construction and operation.

Requirements    | Budget                  | Portfolio Wide Strategic Planning and Business Drivers | Time     | Energy + more

Program Planning | Design                  | Construction                                               |          |          

Year 1          | Year 2                  | Ongoing                                                  | Year 3   | Year 4   

DOD 1391        | Cost Estimate           | Area Reports                                             |          |          

COBie between design, construction and operation.

Program Planning | Design                  | Construction                                               |          |          

Operations      | Year 4                  | Year 5                                                   |          |          

DMLSS FM and SEPS Web-services

Prepared by: Onuma, Inc.

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2014 buildingSMART Challenge

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In the immediate future, BIMs can draw from and provide data back to both SEPS and DMLSS. As BIM, GIS Servers become more mainstream, the potential exists to connect directly to data throughout the lifecycle. Model Servers could replace static file-based plans for as-built information.

COBie supports the structure needed for lifecycle data.
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2014 buildingSMART Challenge

Figures and tables:

- **Construction**: Includes applications to track design intent through construction, track cost, and field applications connected to BIM.

- **FLCM Apps**: Includes applications to track installed equipment, field applications for commissioning, and SEPS tables as web-services.

- **COBie**: Used for installing products, managing move in, and tracking installed equipment. Also used for field applications for commissioning, managing move in, and moving BIM and COBie data into operations.

- **Closeout**: Includes COBie for managing move in and commissioning.

- **Change Orders**: Includes changes triggered by SEPS omissions and some changes executed by SEPS.

- **Commissioning**: Includes field applications for commissioning.

- **Move In**: Includes applications to manage move in.

- **Actual Product Installed**: Includes as-built model and data.

- **Estimated Current Cost of Over $7 Million Per Year To Convert Data into DMLSS FM from Construction**: Includes data currently manually entered into DMLSS COBie is starting to be used.

- **MHS is using DMLSS-FM, VA is using Other Tools (Maximo)**: Includes estimated current cost of over $7 million per year to convert data into DMLSS FM from construction.

- **DMLSS FM V 3.12**: Includes estimated current cost of over $7 million per year to convert data into DMLSS FM from construction.

- **Contractors**: Includes construction 18~24 months, FLMC APPS, and FLMC APPS.

- **BIM**: Includes COBie, as-built model and data, and field applications connected to BIM.

- **Data is Currently Manually Entered into DMLSS COBie is Starting to be used**: Includes estimated current cost of over $7 million per year to convert data into DMLSS FM from construction.

- **Applications to track design intent through construction. Track Cost.**

- **Applications to track installed equipment. Field applications connected to BIM.**

- **Applications to track installed equipment. SEPS tables as web-services.**

- **Applications to field applications for commissioning.**

- **Applications to manage move in.**

- **Applications to move BIM and COBie data into operations.**

- **MHS is using DMLSS-FM, VA is using Other Tools (Maximo).**

- **Data is Currently Manually Entered into DMLSS COBie is Starting to be used.**

- **Estimated Current Cost of Over $7 Million Per Year To Convert Data into DMLSS FM from Construction.**

- **DMLSS FM V 3.12.**

- **Construction 18~24 Months.**

- **SEPS Tables as Web-services.**

- **DMLSS FM Tables as Web-services.**
The tools used to demonstrate the concept are not selected as the only solutions possible, but to illustrate what type of an ecosystem could develop in the next version of DMLSS FM once a services oriented architecture is enabled. Other vendors are encouraged to demonstrate how their solutions fit into the DMLSS FM Ecosystem.

Web-services Enables Access to Data

DMLSS FM 4.0 Tables as Web-services
This Prophylaxis Unit needs replacing with a new type. It keeps malfunctioning.
End users do not care about or should not be bothered with all the technicalities of how it works. It should just work.
The tools used to demonstrate the concept are not selected as the only solutions possible, but to illustrate what type of an ecosystem could develop in the next version of DMLSS FM once a services oriented architecture is enabled. Other vendors are encouraged to demonstrate how their solutions fit into the DMLSS FM Ecosystem.
The tools shown on this page are examples of the types of applications that were evaluated or directly used in the proofs of concepts developed for the DMLSS FM Road Map. They are not intended as a complete list, and others are encouraged to demonstrate how their solutions can fit into the proposed DMLSS FM Ecosystem. Many of the applications span multiple parts of the life cycle. The placement over specific sections is for illustrative purposes and does not suggest a structure. Open standards file exchanges were reviewed as well as web-services exchanges.

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iFM

FED iFM is Like a Backbone
Start with the Basics

Build on Standards Such as COBie
Links

SEPS Strategic Plan: https://facilities.health.mil/home/seps/roadmap
DMLSS FM Road Map: https://facilities.health.mil/home/dmlss-fm/roadmap
Life Cycle: http://BIMStorm.com/LIFE

COBie support
name: Thomas Dalbert
phone: 626 793 7400
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web: http://Onuma.com/COBIE

Marketing POC
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