

**BUILDING OPERATING MANAGEMENT'S**  
**NFMT2013**  
National Facilities Management & Technology March 12-14, 2013 • Baltimore

# CMMS, CAFM and IWMS Questions Answered



Organized by Angela Lewis, Facility Engineering Associates

March 12-14, 2013  
Baltimore Convention Center

# Focus of Session

- Value and business case of 7 different software products through 6 minute presentations
- To gain awareness of
  - Construction Operations Building Information Exchange (COBie)
  - COBie Challenge

# Construction Operations Building Information Exchange (COBie)

A standardized method of exchanging information that drives down cost  
 (paraphrase from Bill Brodt)

	A	C	D	E	F	G	H
	Name	CreatedOn	Category	FloorName	Description	ExtSystem	ExtObject
2	1A01	2011-09-14T16:57:52	13-11 11 31: Reception Space	First Floor	PATIENT ADMIN. RECEPT.	Autodesk Revit Architecture 2011	IfcSpace
3	1A02	2011-09-14T16:57:52	13-15 11 34 11: Office	First Floor	RMO ANALYST	Autodesk Revit Architecture 2011	IfcSpace
4	1A03	2011-09-14T16:57:52	13-15 11 34 11: Office	First Floor	TRICARE OFFICE	Autodesk Revit Architecture 2011	IfcSpace
5	1A04	2011-09-14T16:57:52	13-15 11 34 11: Office	First Floor	TRICARE OFFICE	Autodesk Revit Architecture 2011	IfcSpace
6	1A05	2011-09-14T16:57:52	13-15 11 34 11: Office	First Floor	TRICARE OFFICE	Autodesk Revit Architecture 2011	IfcSpace
7	1A06	2011-09-14T16:57:52	13-15 11 34 11: Office	First Floor	TRICARE OFFICE	Autodesk Revit Architecture 2011	IfcSpace
8	1A07	2011-09-14T16:57:52	13-15 11 34 11: Office	First Floor	TRICARE OFFICE	Autodesk Revit Architecture 2011	IfcSpace
9	1A08	2011-09-14T16:57:52	13-15 11 34 11: Office	First Floor	PHARM. OFFICE	Autodesk Revit Architecture 2011	IfcSpace
10	1A09	2011-09-14T16:57:52	13-41 11 14 21: Restroom	First Floor	W. TOILET	Autodesk Revit Architecture 2011	IfcSpace
11	1A10	2011-09-14T16:57:52	13-51 11 21: Break Room	First Floor	LOUNGE	Autodesk Revit Architecture 2011	IfcSpace
12	1A11	2011-09-14T16:57:52	13-75 11 11: Storage Room	First Floor	JAN.	Autodesk Revit Architecture 2011	IfcSpace
13	1A12	2011-09-14T16:57:52	13-41 11 14 21: Restroom	First Floor	M. TOILET	Autodesk Revit Architecture 2011	IfcSpace
14	1A13	2011-09-14T16:57:52	13-41 11 14 21: Restroom	First Floor	STAFF TOILET	Autodesk Revit Architecture 2011	IfcSpace
15	1A14	2011-09-14T16:57:52	13-15 11 34 11: Office	First Floor	SUPER / NCOIC	Autodesk Revit Architecture 2011	IfcSpace
16	1A15	2011-09-14T16:57:52	13-41 41 99: Other Healing Spaces	First Floor	COUNSELING	Autodesk Revit Architecture 2011	IfcSpace
17	1A16	2011-09-14T16:57:52	13-75 11 11: Storage Room	First Floor	PHARM. DISP.	Autodesk Revit Architecture 2011	IfcSpace
18	1AC1	2011-09-14T16:57:52	13-51 31 11: Waiting Room	First Floor	CENTRAL WAITING	Autodesk Revit Architecture 2011	IfcSpace
19	1AC2	2011-09-14T16:57:52	13-85 11 11: Corridor	First Floor	CORRIDOR	Autodesk Revit Architecture 2011	IfcSpace
20	1AC3	2011-09-14T16:57:52	13-85 11 11: Corridor	First Floor	CORRIDOR	Autodesk Revit Architecture 2011	IfcSpace

## XML (computer code)

```

version="1.0" encoding="UTF-8"?>
<?xml xmlns:cob="cobie.buildingsmartalliance.org" cob:externalSystemName="Autodesk Revit Architecture 2011" cob:ext
:FacilityName>PN 0001</cob:FacilityName>
:FacilityCategory>11-13 24 14: Clinic</cob:FacilityCategory>
:ProjectAssignment cob:externalSystemName="Autodesk Revit Architecture 2011" cob:externalID="3eM8WbY_59RR5TDW
<cob:ProjectName>Medical-Dental Clinic</cob:ProjectName>
b:ProjectDescription>Medical-Dental Clinic</cob:ProjectDescription>
b:ProjectAssignment>
:SiteAssignment cob:externalSystemName="Autodesk Revit Architecture 2011" cob:externalID="3eM8WbY_59RR5TDWry
<cob:SiteName>PN 0001</cob:SiteName>
<cob:SiteDescription>n/a</cob:SiteDescription>
b:SiteAssignment>
:FacilityDefaultLinearUnit>Meters</cob:FacilityDefaultLinearUnit>
:FacilityDefaultAreaUnit>Square meters</cob:FacilityDefaultAreaUnit>
:FacilityDefaultVolumeUnit>Cubic Meters</cob:FacilityDefaultVolumeUnit>
:FacilityDefaultCurrencyUnit>Dollars</cob:FacilityDefaultCurrencyUnit>
<cob:FacilityDefaultMeasurementStandard>Autodesk Revit Architecture 2011 BIM Area</cob:FacilityDefaultMeasurementStanda
<cob:FacilityDeliverablePhaseName>Handover</cob:FacilityDeliverablePhaseName>
</cob:Facility>
- <cob:Floors>
- <cob:Floor cob:externalSystemName="Autodesk Revit Architecture 2011" cob:externalID="3eM8WbY_59RR5TDWs3wwJP
  <cob:FloorName>First Floor</cob:FloorName>
  <cob:FloorCategory>Floor</cob:FloorCategory>
  <cob:FloorDescription>First Floor</cob:FloorDescription>
  <cob:FloorElevationValue>
  <cob:DecimalValue>0.0</cob:DecimalValue>
  </cob:FloorElevationValue>
  <cob:FloorHeightValue>
  <cob:DecimalValue>0.0</cob:DecimalValue>
  </cob:FloorHeightValue>
  <cob:Spaces>
  
```

Spreadsheet  
 (human readable)

# COBie Challenge for FM

**Purpose:** Test and validation to determine if commercial off the shelf facility management software can successfully import and display data from the standard

## **Examples of data:**

- Room names and numbers
- Preventive maintenance routines
- O&M manuals and product data sheets

# Order of Vendor Presentations

- AssetWorks – Will Kline
- Bentley – Ralph Schopen
- Planon – Brian Lynch
- Onuma – Kimon Onuma
- TMA Systems - Kerry Joels
- Archibus – Gary Siorek
- EcoDomus – Igor Starkov

# During Presentations

Please keep track of your questions to ask following the session

Room will be held open following the session for one-on-one discussions

Visit vendors at NFMT booths