

Company: EcoDomus, Inc.

Product: EcoDomus PM

Igor Starkov, President



product description

EcoDomus PM ("Project Management") is a software solution dedicated to enabling the usage of Building Information Models (BIM) and Lean processes for managing facility data during new construction, renovation of existing buildings, or just collecting data to create accurate as-builts.

EcoDomus PM allows reducing time and costs of collecting and validating design/construction/commissioning information using COBie.



The screenshot shows the EcoDomus software interface. At the top, there is a header bar with the EcoDomus logo and user information. Below the header, there is a navigation menu on the left with options like Dashboard, COBie, Type, Component, Space, Document, System, Zone, Floor, Facility, Import/Export, Reports, Add Items, Activities, Project Setup, and Impostions. The main area displays a table of COBie data. The table has columns for Object Class, Name, Type Name, Designer, Contractor, and Number of Items. The data rows include various HVAC and electrical components like Air Handling Units, Air Circulators, and Automatic Transfer Switches.

Object Class	Name	Type Name	Designer	Contractor	Number of Items
23-33 25 00 Air Handling Units	90	AHU1320AHU	ABC Design	ABC Construction	1
23-33 30 00 Air Circulators	90	Air Circulators, Centrifugal Exhaust Fans, Forward Curved, CSD, FN Forward Curved, Centrifugal Exhaust Fan	ABC Design	ABC Construction	1
23-33 36 00 Air Circulators	90	Air Circulators, Centrifugal Exhaust Fans, Forward Curved, CSD, FN Forward Curved, Centrifugal Exhaust Fan	ABC Design	ABC Construction	1
23-33 30 00 Air Circulators	90	Air Circulators, Centrifugal Exhaust Fans, Forward Curved, CSD, FN Forward Curved, Centrifugal Exhaust Fan	ABC Design	ABC Construction	1
23-33 25 00 Air Handling Units	90	Air Handling Unit	ABC Design	ABC Construction	1
23-33 25 00 Air Handling Units	90	Air Handling Unit, AHU, Energy Labs 2000, CSD	ABC Design	ABC Construction	1
23-35 37 11 Automatic Transfer Switches	90	Automatic Transfer Switch - 125A 480/277V 3-Phase 4W 30 Automatic Transfer Switch	Facility One	ABC Construction	2
23-35 37 11 Automatic Transfer Switches	90	Automatic Transfer Switch 475-8200	Facility One	ABC Construction	1
23-49 30 15 Ball Valves	90	Ball Valve - 3/8 Inch 1"	Facility One	Western Allied Mechanical	28
23-49 30 15 Ball Valves	90	Ball Valve - 1/4 Inch 2"	Facility One	Western Allied Mechanical	18

product features

EcoDomus PM provides support for COBie throughout the whole construction project lifecycle both online and off-line, on Tablet PCs (like iPad and Windows 8), laptops and desktops, all having a 3D interface.

With EcoDomus PM you can edit COBie data in a secured online environment in collaborative mode.

EcoDomus PM provides a unique way for extracting and editing COBie data from Autodesk Revit and other BIM tools and pushing data back into the model.

EcoDomus PM has built-in Quality Control reports helping analyze and improve quality of BIM data.



user base

users

user count:	N/A
facility count:	N/A
public sector:	N/A
private sector:	N/A

customers

name:	General Services Administration (GSA)
name:	Kaiser Permanente
name:	University of Southern California

tested product

product name: EcoDomus PM

product version: SaaS

PC or Cloud: Cloud

website: www.ecodomus.com/ecodomuspm.html

Builders' COBie challenge scope

information	COBie.Sheet*	Imported	Exported
spaces and equipment	Space, Type, Component	✓✗	✓✗
space and equipment properties	Attribute	✓✗	✓✗
equipment PM/safety procedures	Job	✓✗	✓✗
equipment safety procedures	Job	✓✗	✓✗
equipment replacement parts	Spare	✓✗	✓✗
pm materials, tools, training	Resource	✓✗	✓✗
spatial zones	Zone	✓✗	✓✗
equipment systems	System	✓✗	✓✗
system operations procedures	Job	✓✗	✓✗
suppliers, manufacturers, etc...	Contact	✓✗	✓✗
handover documents	Document	✓✗	✓✗

* and supporting COBie sheets as required per standard.

configuration

Please see the accompanying documentation

process

Please see the accompanying documentation

COBie savings – single project

building type
floors
total SF
equipment count

Education Facility
4 levels (3 floors and basement)
62,500 sq.ft.
5,920

“back of napkin” savings:

- in data capture from upstream
 - in capture in construction workflow
 - in production of handover data set
 - other, etc...
- Total \$ construction office savings

expected savings from not having to recreate design data & streamlined workflow:

Time for each manual record entry (in hours) *	0.008
Time for establishing lookup link (hrs)	0.004
Time required to enter all records and establish links (hrs)	4410.29
Data verification time (assume 15% of total labor)	661.54
Cost of labor per hour	\$30
Labor experience level (good=1, bad>1)	1.00
Total cost of manual COBie Excel file production	\$152,155

Cost Savings due to using EcoDomus PM	\$132,371
Cost Ratio (EcoDomus/Semi-Manual Process)	21%

COBie savings – facility portfolio

building types

number of buildings

total SF

equipment count

Office/educational/athletic/CUPs

200

14MSF

Tens of thousands

“back of napkin” savings:

- in data capture from upstream
- in capture in construction workflow
- in production of handover data set
- other, etc...

expected savings: millions of dollars

-Total \$ construction office savings

contacts

COBie support

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marketing POC

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