



# VELA SYSTEMS

The Leader In Field Software for the AECO Industry™

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## Field BIM™ for Commissioning, Handover and Facility Management

COBie2 perspective

Monday, March 01, 2010

# Vela Systems...

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... provides enterprise field management software that

- Enables construction Quality programs
- Connects BIM to construction and handover
- Improves field productivity and accelerates project schedules

... from inception, has built field software 'from the ground up' to leverage the power of mobility for construction in the field

- First to tie BIM to the field
- Driving "data driven construction"



# Vela Systems...

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... is based in Boston, with representatives nationally

... has close partnerships and integrations with industry BIM leaders

**Autodesk®**



**TEKLA**

**Autodesk®**

Preferred Industry Partner Program



# Commonly Asked Questions

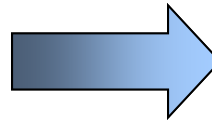
- Can I make BIM useful in the field for construction?
- Can I use my model for commissioning?
- Can I use BIM to track quality assurance?
- Can I automatically create a BIM “digital asset” for handover to the owner?

# Commissioning example: How it works...

## Field

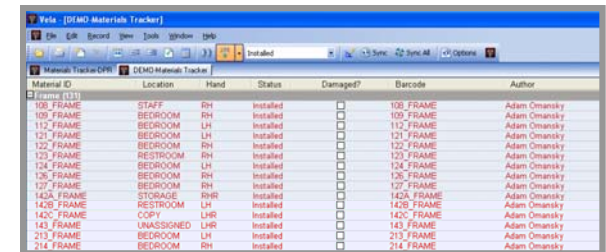
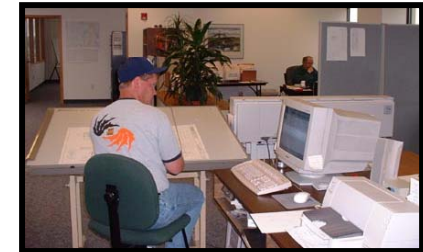


*In-ceiling Units  
1,2,3 operating  
per spec.*



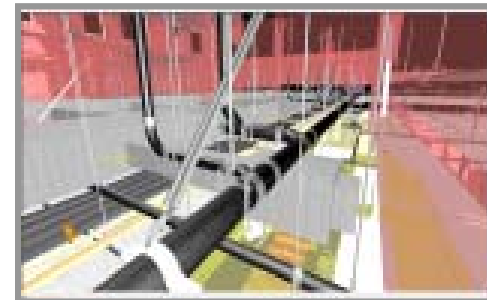
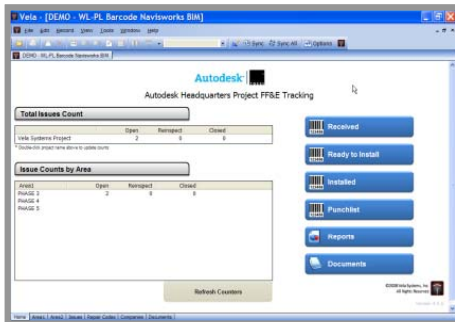
*HVAC percent  
complete pay  
req updated...*

## Office



Material ID	Location	Hand	Status	Damaged?	Barcode	Author
108 FRAME	STAFF	RH	Installed	<input type="checkbox"/>	108 FRAME	Adam Omansky
109 FRAME	BEDROOM	RH	Installed	<input type="checkbox"/>	109 FRAME	Adam Omansky
112 FRAME	BEDROOM	LH	Installed	<input type="checkbox"/>	112 FRAME	Adam Omansky
121 FRAME	BEDROOM	LH	Installed	<input type="checkbox"/>	121 FRAME	Adam Omansky
122 FRAME	BEDROOM	RH	Installed	<input type="checkbox"/>	122 FRAME	Adam Omansky
123 FRAME	RESTROOM	RH	Installed	<input type="checkbox"/>	123 FRAME	Adam Omansky
124 FRAME	BEDROOM	LH	Installed	<input type="checkbox"/>	124 FRAME	Adam Omansky
125 FRAME	BEDROOM	RH	Installed	<input type="checkbox"/>	125 FRAME	Adam Omansky
127 FRAME	BEDROOM	RH	Installed	<input type="checkbox"/>	127 FRAME	Adam Omansky
128 FRAME	BEDROOM	RH	Installed	<input type="checkbox"/>	128 FRAME	Adam Omansky
142B FRAME	RESTROOM	LH	Installed	<input type="checkbox"/>	142B FRAME	Adam Omansky
142C FRAME	COPY	LHR	Installed	<input type="checkbox"/>	142C FRAME	Adam Omansky
143 FRAME	UNASSIGNED	LHR	Installed	<input type="checkbox"/>	143 FRAME	Adam Omansky
213 FRAME	BEDROOM	LH	Installed	<input type="checkbox"/>	213 FRAME	Adam Omansky
214 FRAME	BEDROOM	RH	Installed	<input type="checkbox"/>	214 FRAME	Adam Omansky

*Next week, the  
schedule can  
accelerate to  
include....*



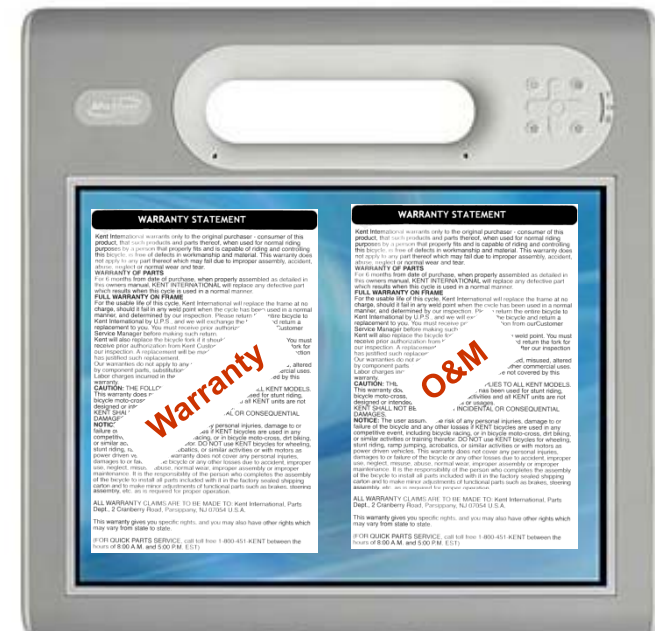
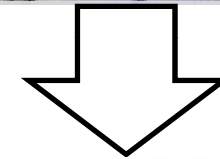
# Field BIM for Commissioning, Handover and Facilities Management

## Capabilities

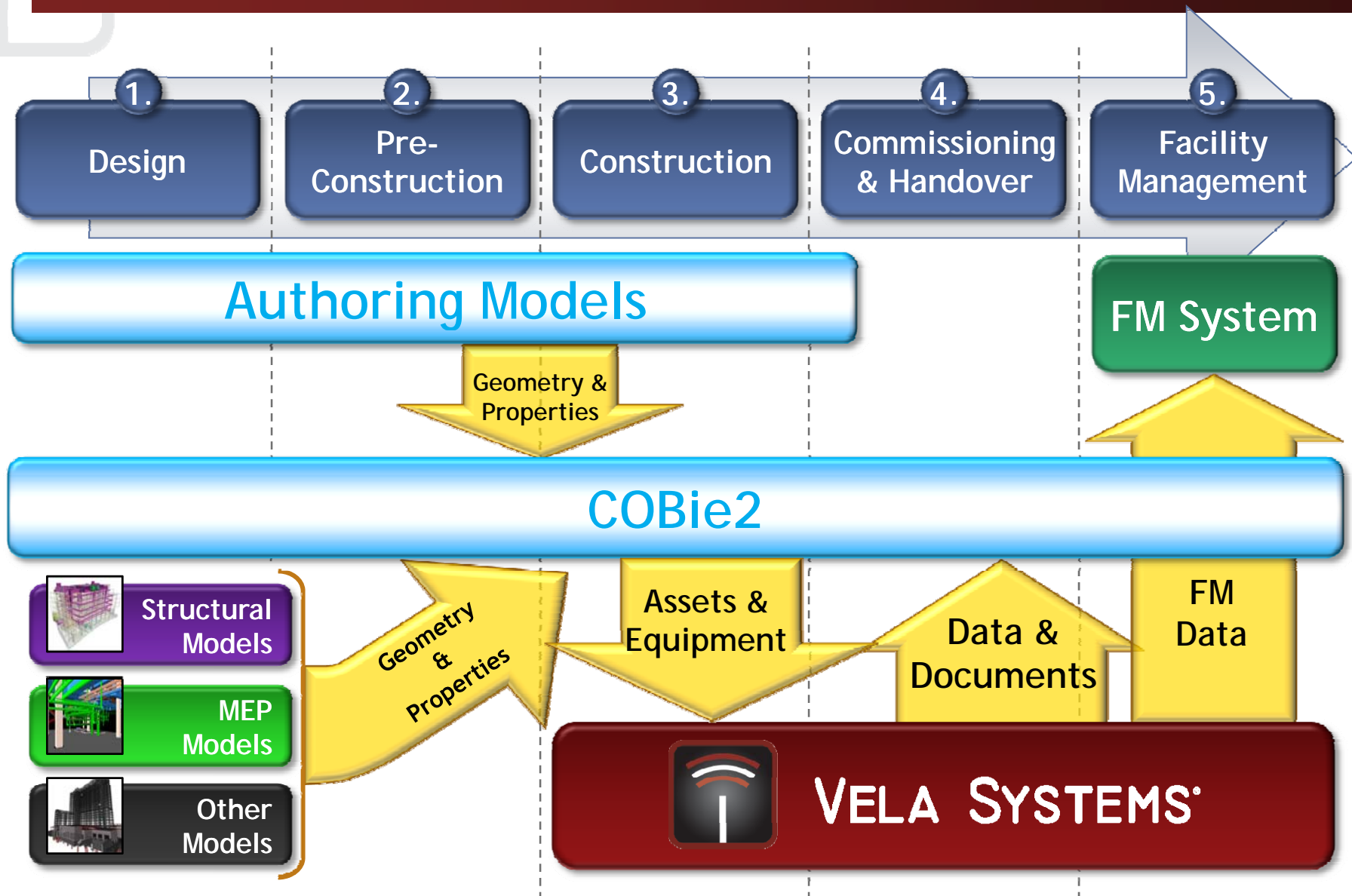
- Track and coordinate the startup process of all systems and equipment
- Create a database for documents and data (e.g., warranty date) related to the startup of a system
- Indicate or flag problems using document and photo markup
- Link and exchange data and files with BIM (Tekla and Autodesk Navisworks)

## Benefits

- Contractor: Streamline closeout process - improve profitability
- Owner: Get O+M data faster and w fewer errors than ever before - helps owner @ handover



# Vela Systems Can Leverage COBie2 to Bring Model Through Construction into Handover *(with Key FM Data & Documents)*



# BIM, Vela Systems and COBie2 tackle the top two facilities management issues

## Facility Management Issue

- Data transfer to facility management systems takes months if not years
- Finding documents needed to do maintenance adds hours to each work ticket

## BIM-Vela Solution

- Data on systems/equipment can be immediately imported into FM Systems
- Vela documents are linked to BIM objects for immediate access and can be accessed in the field (via barcode)