

A Practical Guide to Data Syndication in the BIM Environment

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Marty Brett – Wheatland Tube

Agenda

1. What is BIM?
2. Why is it important to our Industry?
3. What are the trends?
4. Who is currently involved?
5. Building the Templates.

Building Information Modeling

- 40% of the World's Raw Materials Being Consumed by Buildings
- Facilities Consume 40% of the World's Energy
- Facilities use 65.2% of Total US Electrical Consumption
- Facilities Contribute 40% of the Carbon Emissions to the Atmosphere and 20% of Material Waste to Landfills

-US NBIMS 2007

- 2008 US Construction Spending – **\$1.288 TRILLION**
- Construction Industry Institute estimates there is up to **57%** non value added effort or waste in our current business models
- Industries may waste up to **\$600 BILLION** each year.



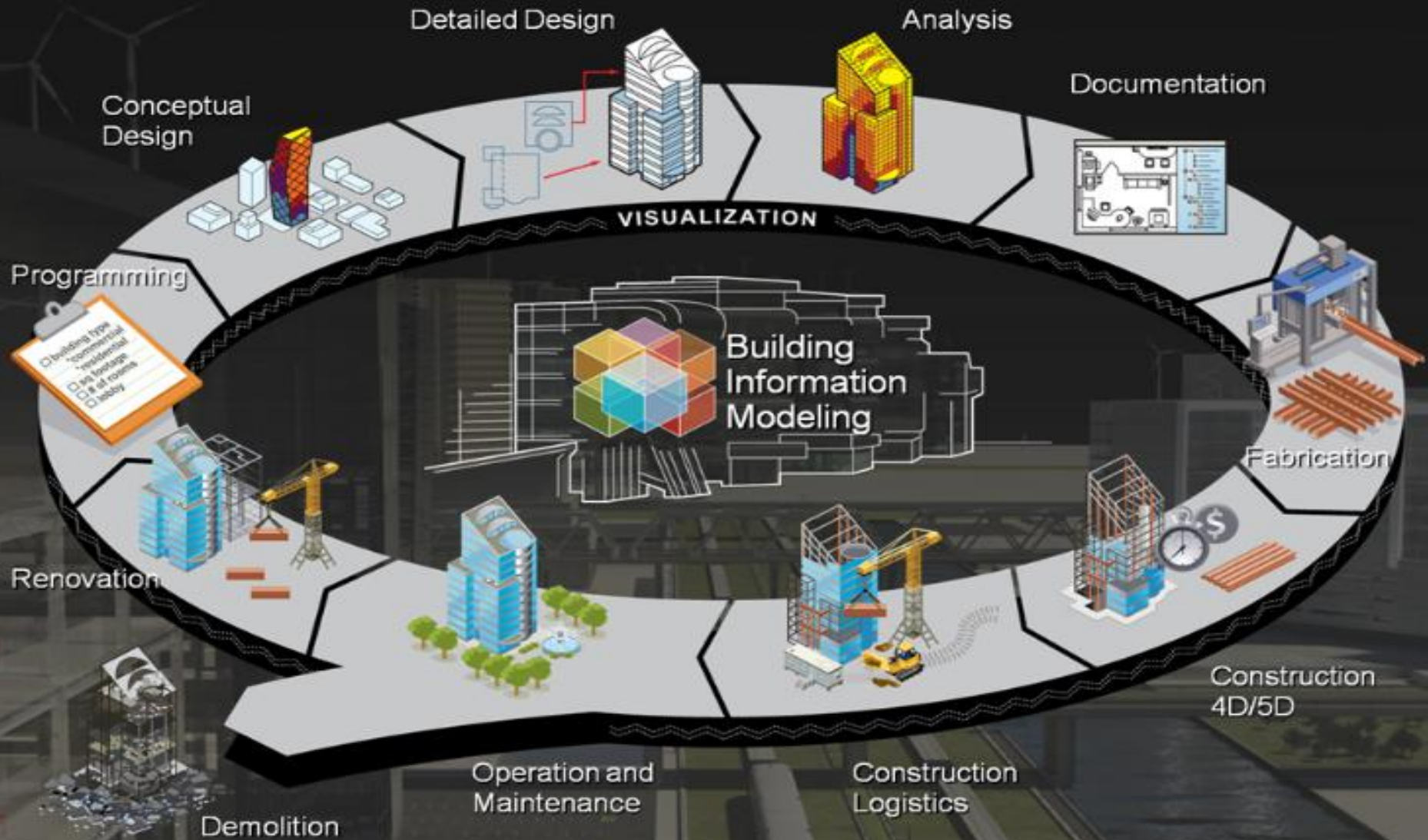
*Weekly Trades
Collision Detection
Meetings identified
Collisions at Shop
Drawing Stage.*



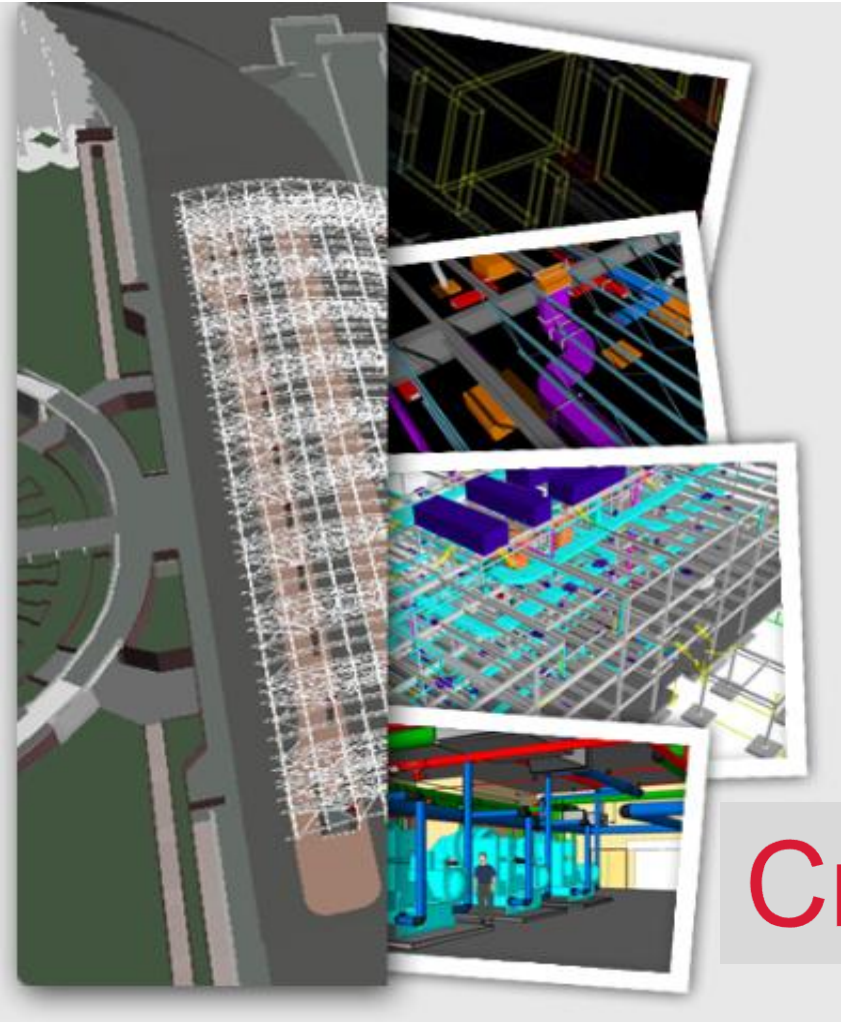
Wheatland Tube
JMC STEEL GROUP

DATAgility
Data Management Services

Building Information Modeling



Building Information Modeling



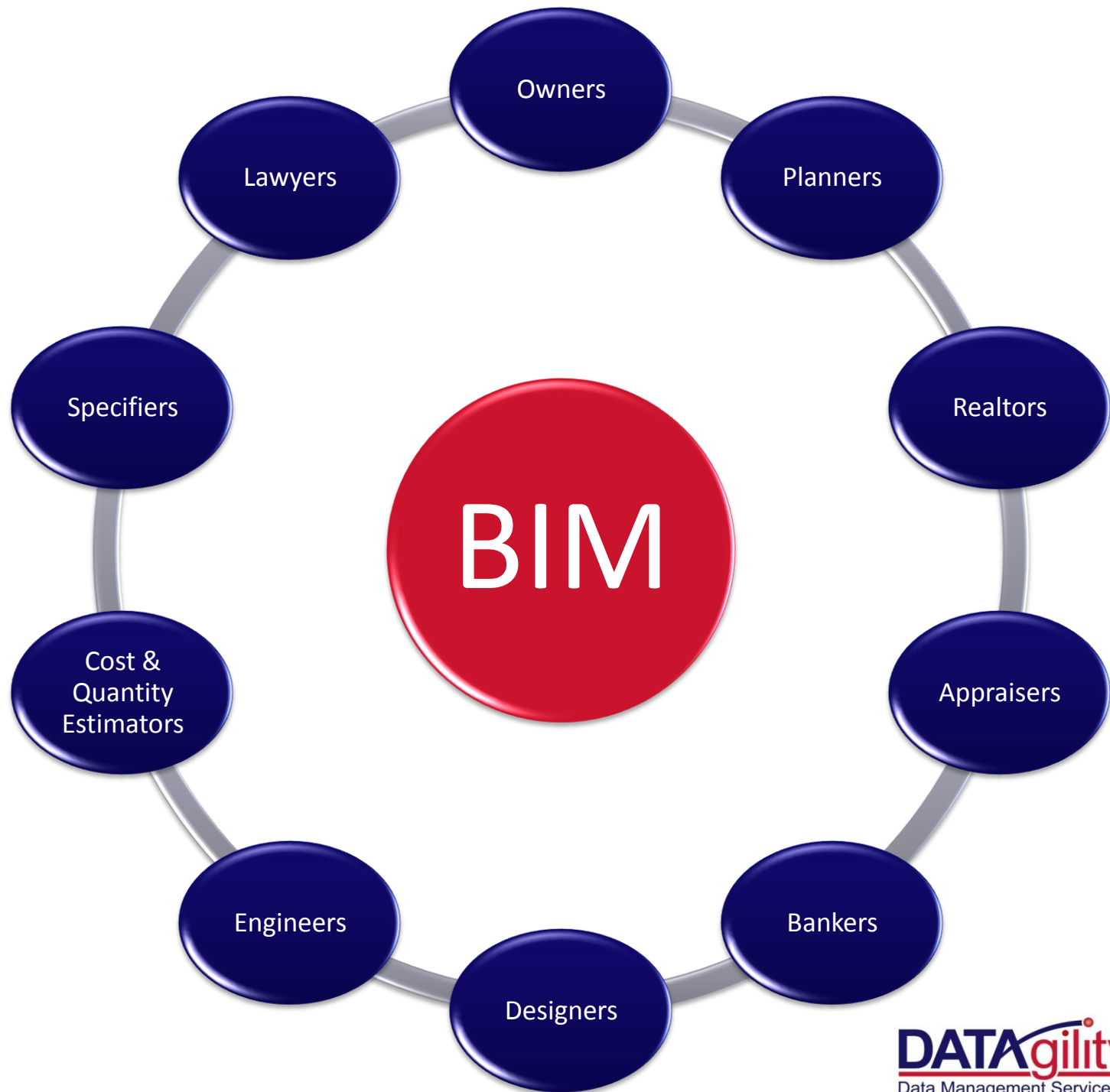
Creating the “I” in BIM

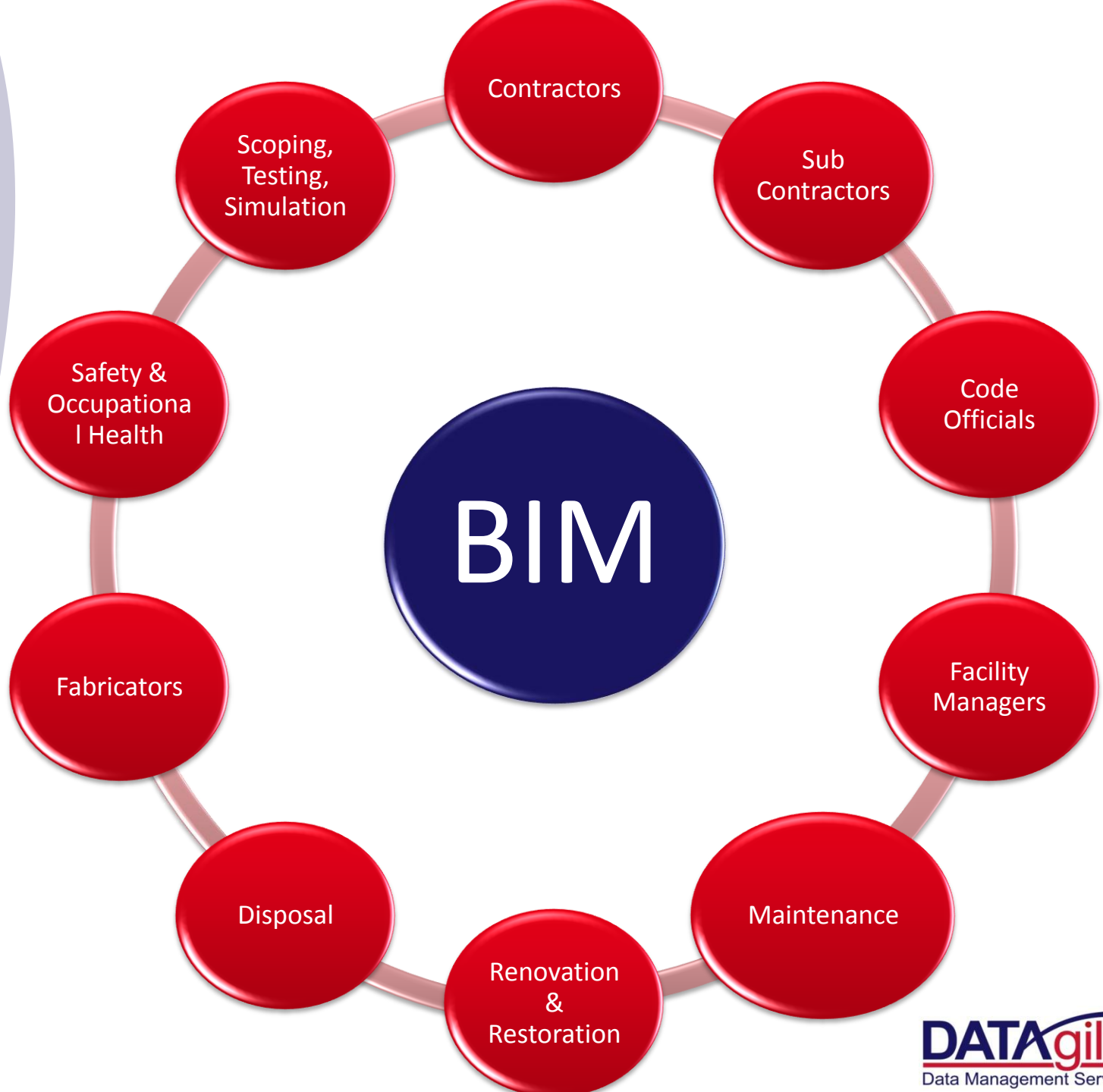
Building Information Modeling

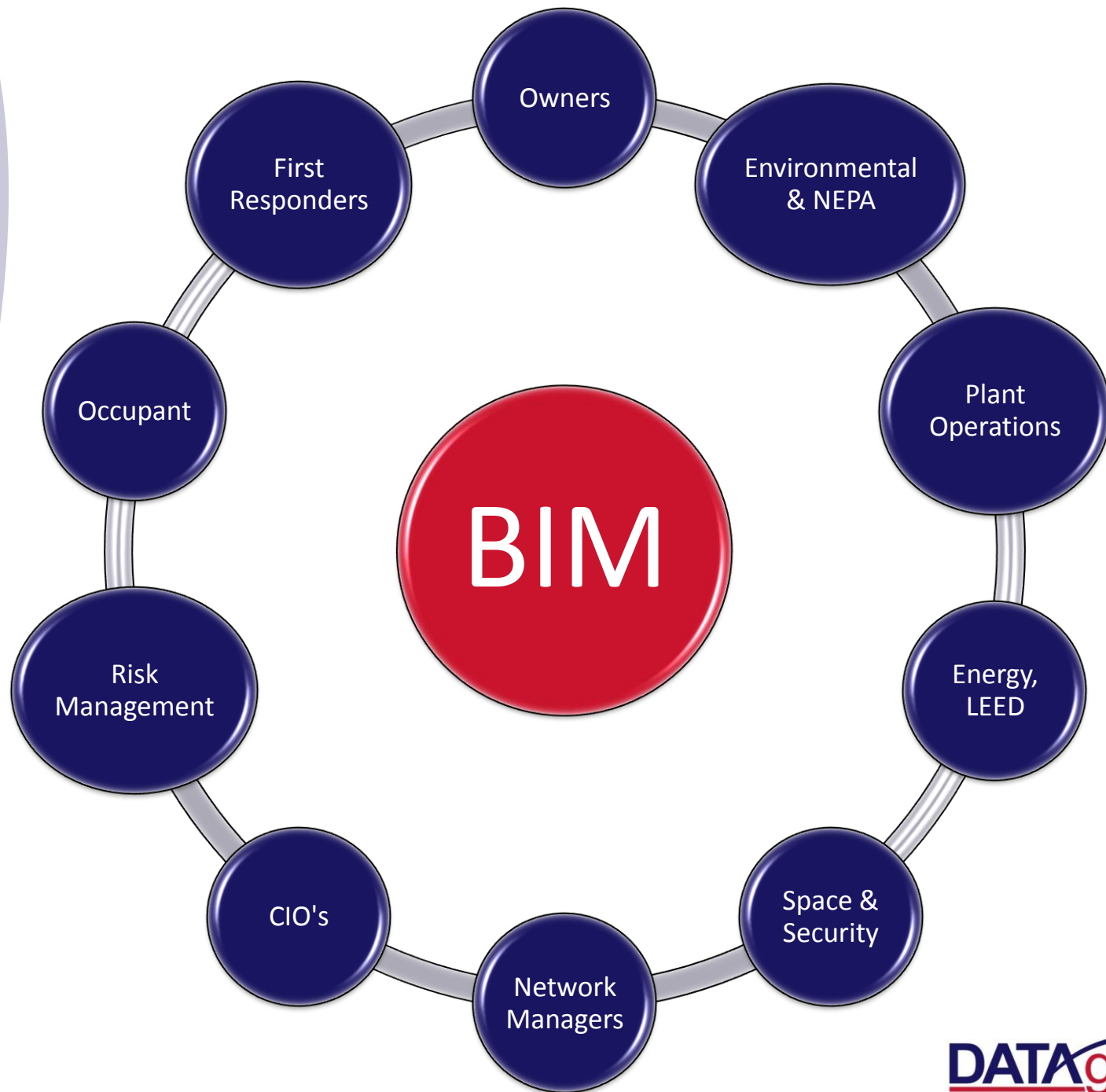
- The process of generating and managing building data during its life cycle.
- Generating objects that contain geometry, relations and attributes.
- Dynamic information stored within the model so as factors change, the model adjusts with it.
- Bridging information from design, build, to operation for building take-over.

- Small portion of facility lifecycle costs occur during the design and construction phase where decisions have the greatest impact.
- Most of the cost associated with a facility throughout its lifecycle accrue during a facility's operations and sustainment.

Carnegie-Mellon University Research has shown that an improvement of just **3.8% in productivity** in the functions that occur in a building would **totally pay for the facilities design, construction, operations and sustainment**, through increased efficiency.

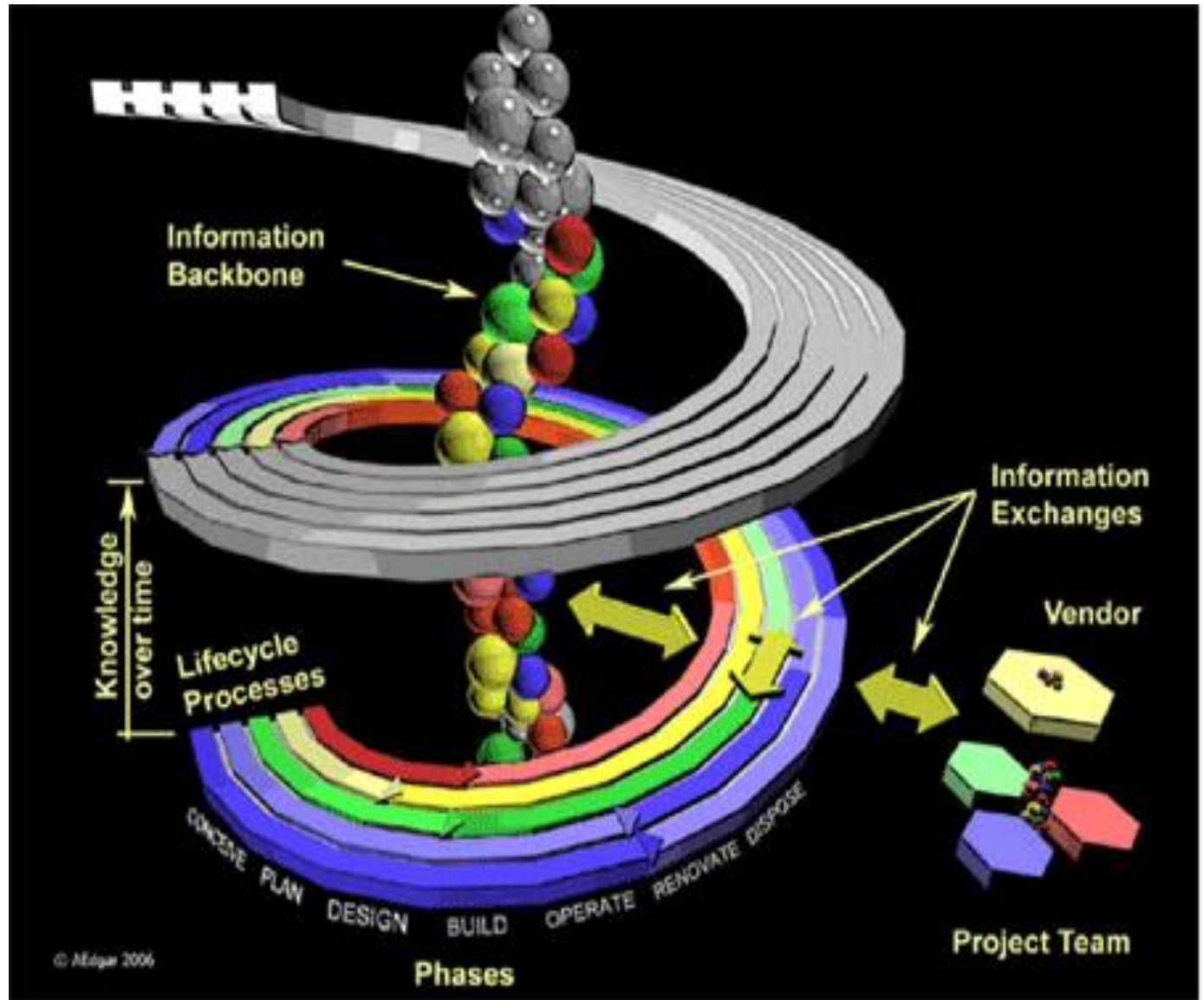






Why it is used?

- Life cycle information collection point for a facility.
- Allows for the creation of facility information relationships.
- Focused on saving resources (dollars, time and materials) during each phase of the facility life cycle.
- The more mature the model the more usable it is – but any collected data is better than how we do business today.



BIM Demand

Government

- **GSA**
- **US Army Corp of Engineers**
- **US Coast Guard**
- **US Air Force**
- **State of Wisconsin**
- **State of Ohio**
- **State of Texas**

Companies

- **Crate & Barrel**
- **DaimlerChrysler**
- **Dallas/Fort Worth Airport**
- **Volkswagen**
- **General Motors**
- **Walt Disney Imagineering**

Organizations & Projects

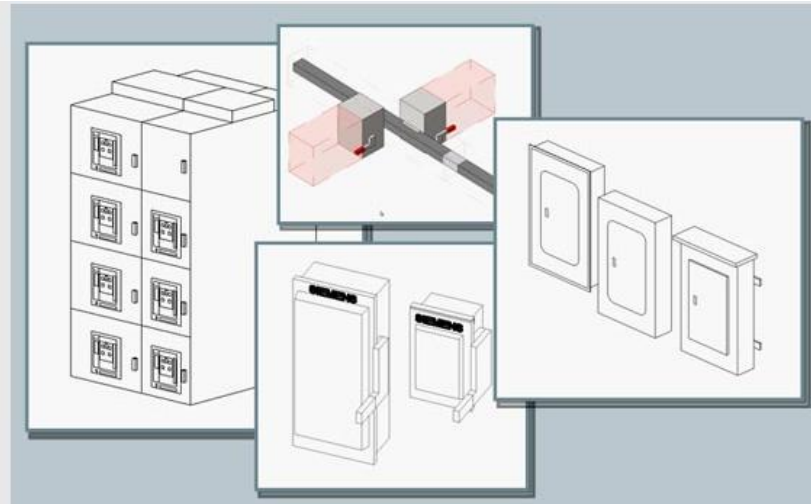
- **NIBS** - National Institute of Building Sciences
- **bSa**- buildingSMARTalliance
- **WBDG** -Whole Building Design Guide
- **Spie** -Specifiers' Properties Information Exchange Project
- **COBie** - Construction Operations Building Information Exchange (project)
- **IFC** - Industry Foundation Classes

Manufacturer Benefits

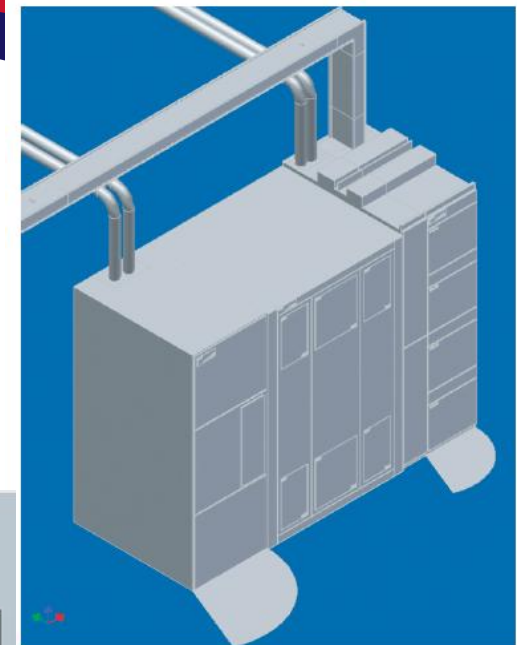
- Specific Manufacturer product data now available to millions of BIM application users.
- Increased opportunity for repeat business including repair, replacement, & upgraded products.
- Increase product specification early in the process increases sales opportunities.
- Compliance to mandated BIM regulation enables Manufacturers to participate in government agencies contracts.
- Strengthen customer relationships by providing detailed product information.

Examples in Electrical

- Eaton
- Thomas & Betts
- Siemens
- GE
- Hubbell
- Leviton



Siemens



Above: An example of Eaton's high-powered BIM-friendly models.

Eaton – BIM PA08703005E

Building the Templates

BIM Template Toolkit Contents:

1. Read me First Document
2. The NEMA Building Information Management (BIM) Orientation Guide
3. The NEMA BIM Population Quick-Reference Guide
4. The COBie 2.30 Spreadsheet
5. The NEMA BIM Attachments Supplemental Workbook
6. The NEMA Tutorial for Creating BIM Templates

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Quick Reference Guide

I. Overview of the Quick Reference Guide

Purpose

The purpose of this document is to guide the manufacturer through the steps necessary to populate the BIM (Building Information Management) Orientation Guide on the BIM Program and Template.

Audience

This guide is intended for the person responsible for the BIM (Building Information Management) Orientation Guide on the BIM Program and Template.

Before Beginning

This document is not intended to be read without the following document, included in the Quick-Reference Guide:

- Building Information Management Orientation Guide_11041

Once you have completed the guide as you are following this guide:

- NEMA - A Tutorial for Building Information Management Tutorial_110415.ppsx)

II. Steps to Populate the BIM Document

Step 1 - Classify Your Data

Goal: Provide a classification code for each product in your data according to the following standards. If you are unsure of how to acquire these standards, refer back to the 'BIM Electrical Attribute Schema Guide':

- **MasterFormat™ or UniFormat™**
- **OmniClass™**
- **UNSPSC**

A worksheet has been provided to help you track your assignments, see the Excel Workbook entitled 'BIM Attachment Worksheets.xlsx', in the Tool Kit folder.

Step 2 - Open the COBie Spreadsheet

Goal: Use the NEMA BIM Electrical Template, called the COBie Document. This is the document that contains the four tabs that make up the SPIes Template that the manufacturer is responsible for populating and is included as part of the toolkit.

Whole Building Design Guide



a program of the
National Institute of Building Sciences

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INDUSTRY ORGANIZATIONS

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productguide™

SwitchingDevice USERDEFINED (other types)

USERDEFINED: User-defined specific type.

Classifications

Type	Code	Title
MasterFormat™ 2004	28 28 16	Enclosed Switches and Circuit Breakers
MasterFormat™ 2004	08 74 16	Keypad Access Control Hardware
UniFormat™ 1999	D5010	Electrical Service and Distribution
OmniClass™ Table 21 - 2011	21-07 40 10 50	Electrical Switchgear and Protection Devices
OmniClass™ Table 22 - 2006	22-26 28 16	Enclosed Switches and Circuit Breakers
OmniClass™ Table 22 - 2006	22-08 74 16	Keypad Access Control Hardware
OmniClass™ Table 23 - 2010	23-35 00 00	Electrical and Lighting Specific Products and Equipment

Downloads

Sep 1, 2011

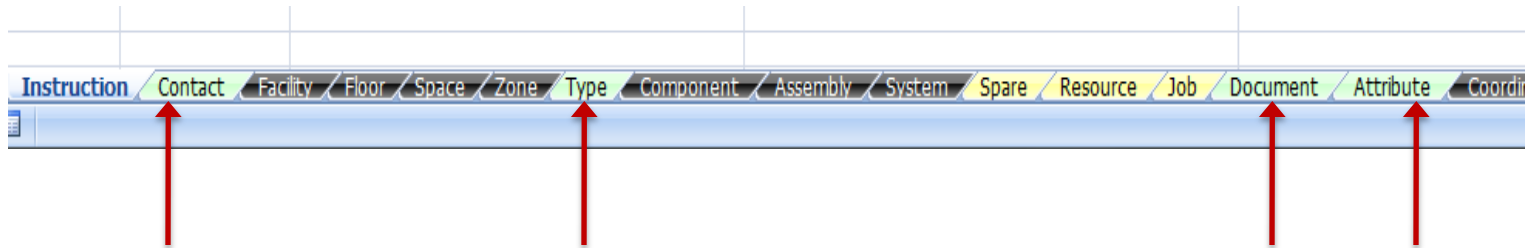
Type	Title
HTML	SwitchingDevice_USERDEFINED_USTypeProduct.html
XHTML	SwitchingDevice_USERDEFINED_US.xhtml
COBIE	SwitchingDevice_USERDEFINED_US_SPIe2.xls
IFCXML	SwitchingDevice_USERDEFINED_US.ifcxml

 COMMENT ON THIS PAGE

 BOOKMARK AND SHARE

BIM Template Structure

COBie™ Tabs



- These four tabs collectively are called the SPie™ (Specifiers' Properties Information Exchange) Template

- The manufacturer is responsible only for the SPie™ Template tabs, which relate to product data associated with the BIM Program at this time.

COBie 2.30 Spreadsheet

Clipboard Font Alignment Number Styles Cells Editing WebEx

L12 Insulation standard classes provides basic protection information against electric shock. Defines levels of insulation required in terms of

	A	B	C	D	E	F	G	H	I	J	K	L
	Name	CreatedBy	CreatedOn	Category	SheetName	RowName	Value	Unit	ExtSystem	ExtObject	ExtIdentifier	Description
1												
2		Email		StageType	SheetType					objAttribute		
3	Current											The current that a device is designed to handle.
4	Voltage											The voltage that a device is designed to handle.
5	Power											The power that a device is designed to handle.
6	Frequency											The frequency that a device is designed to handle.
7	PhaseAngle											The angular difference between two waveforms of the same frequency.
8	PhaseReference											The phase identification used for the device electrical input. This should be the same phase identifier that is used for the conductor segment providing the electrical service to the device. In general, it is recommended that IEC recommendations for phase identification are used (L1, L2 etc.). However, other phase identifiers may be used such as by color (Red, Blue, Yellow) or by number (1, 2, 3) etc.
9	Number of Poles											The number of live lines that is intended to be handled by the device.
10	HasProtectiveEarth											Indicates whether the electrical device has a protective earth connection (=TRUE) or not (=FALSE).
11	IP_Code											IEC 60529 (1989) Classification of degrees of protection provided by enclosures (IP Code).

Pre-populated with Electrical Device Common Property Set

BIM Supplemental Worksheets



Overview of BIM Supplemental Worksheets



Confidential and Proprietary to DATAgility, Inc.™

This workbook contains worksheets designed to assist the manufacturer in various aspects of SPies Template Creation. It is intended for use in conjunction with the "Next Generation BIM Attribute Creation". Click on the link to access the needed worksheet.

Template Creation Preparatory Worksheet	This worksheet allows the manufacturer to track initial information needed before template creation can be initiated.
Product Line BIM Classification Worksheet	This worksheet allows the user to track the assignment of the necessary BIM Classification Codes in preparation for populating the SPies template.
Attribute Exceptions	This worksheet allows the user to record modifications needed to the attributes listed on the Property sheet to fit the needs of the product. Reminder that if new attributes are needed, they can be recorded directly to the attribute sheet for review by NEMA and Nibs.

NEMA Template Creation Preparatory Worksheet

Confidential and Proprietary to DATAgility, Inc.™
Use this worksheet to track the steps that need to be performed before the creation of the SPies template. This worksheet Section III, Manufacturer Implementation Steps and Guidance to US Electrical Template Development', subsection A, Preparation of Template.

- I. Select the Data Expert Team**
Select a team of experts from your company to work through the data identification template process. Select members from a cross section of departments including, but not limited to:
- Marketing
 - Engineering
 - Product Managers
 - Customer Service
 - IT

- 2. Gather Your Product Information for**
When searching for company product data files, include key attributes needed to properly identify features and benefits that uniquely position you:
- Technical Specifications
 - Specifications
 - Sell Sheets
 - Warranting Information
 - CAD Drawings
 - Engineering Documents
 - Product Catalogs

Department	Data Expert	Phone/E-mail	Data Type	Filename
Ex. Marketing	Jonathan.Dor	68-750-2857; jhd@blacktie.com	Feature Sheet	Prod/Mktg_Buils...

NEMA Attribute Exceptions

Confidential and Proprietary to DATAgility, Inc.™
Use this sheet to record any conflicts between your product needs and the existing Attribute Properties designated for them in the WBDG product guide. This worksheet corresponds with the section of the BIM Electrical Attribute Guide, Section III, Manufacturer Implementation Steps and Guidance to US Electrical Template Development', subsection C, Attribute Request for Change".

Product	PropertySet Name	Name	Data Type	Definition	Issue
---------	------------------	------	-----------	------------	-------

ProdABC	Ex. Post-Common Work Results for Electrical	Application	-LOCATIONS_INDICATED -OTHER -NOT_DEFINED	Applic	
---------	---	-------------	--	--------	--

Product Line BIM Classification Worksheet

Confidential and Proprietary to DATAgility, Inc.™
Use this worksheet to record BIM Classifications needed to find the appropriate Attribute Property sets to populate the attribute tab of the SPies template. This worksheet corresponds with the section of the BIM Electrical Attribute Guide, Section III, Manufacturer Implementation Steps and Guidance to US Electrical Template Development', subsection 3, Classify Products According to BIM Requirements".

Catalog number	Product Description	Product Line	MasterFormat™ Code	UniFormat™ Code	OmniClass™ Code	MasterFormat™, UniFormat™ or OmniClass™	UNSPSC	UNSPSC Classification Not Found
Ex. ProdABC	10" Small Table Lamp	Acme Light Supply	28300	28300	21-8070.21 (Table 21)	X		
Ex. ProdDEF	10" Copper Wire	Acme Wiring Ltd.						



NEMA – A Tutorial for Creating BIM Templates

What is the BIM Template?

A Microsoft Excel Workbook made up of numerous tabs, each tab allows the collection and housing of a distinct aspect of building creation, maintenance and disposal.

BIM Template Structure

- The BIM Template Data Requirements are contained within a document called the COBie (Construction Operations Building Information Exchange) Workbook
- The COBie 2.30 version has been included as part of the NEMA BIM ToolKit .
- The COBie spreadsheet has been pre-populated with the appropriate attribute labels from the electrical device type property set.

BIM Data Entry Rules

- Fields are color coded within each tab to indicate data entry rules

Description	AssetType	Manufacturer	ModelNumber	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit

BIM Data Entry Rules

- Fields are color coded within each tab to indicate data entry rules

The diagram shows a grid representing a data entry table. The columns are labeled: Descrip, AssctL, Manufa, ModelNumber, WarrantyGuarantorParts, and WarrantyDurationParts. The rows are color-coded: yellow, black, orange, yellow, purple, and green. Callout boxes explain the rules: Black means ignore this field; Purple means this field is required if you are mapping this sheet to authoring software; Orange means this field is also required, with a drop-down list appearing based on another field; Yellow means this field is mandatory. Red arrows point from the callouts to the corresponding cells in the table.

Descrip	AssctL	Manufa	ModelNumber	WarrantyGuarantorParts	WarrantyDurationParts

Black means ignore this field

Purple means this field is required if you are mapping this sheet to authoring software. In most cases the manufacturer is not responsible for this information

Orange means this field is also required. A drop down list appears with the appropriate selections based on another field you entered

Yellow means this field is mandatory

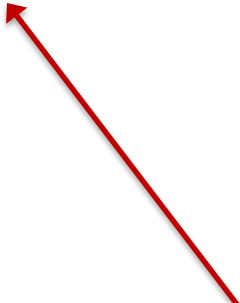
Contacts Tab

Email	CreatedBy	CreatedOn	Category	Company	Phone	ExtSystem	ExtObject	ExtIdentifier	Department
sales@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		sales
warranty@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		warranty
techserv@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		technical service

Enter the email address associated with the contact. This is the value that uniquely identifies that contact information. Once the email address is entered, it will become available in the 'CreatedBy' field drop down list.

Contacts Tab

Email	CreatedBy	CreatedOn	Category	Company	Phone	ExtSystem	ExtObject	ExtIdentifier	Department
sales@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		sales
warranty@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		warranty
techserv@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		technical service



Select email from drop down list. These field options refer to the person who entered the contact information or the 'author'.

Contacts Tab

Enter Date file was created: Year-Month-Date Time Stamp
XXXX-XX-XXT00:00:00

Email	CreatedBy	CreatedOn	Category	Company	Phone	ExtSystem	ExtObject	ExtIdentifier	Department
sales@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		sales
warranty@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		warranty
techserv@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		technical service

Contacts Tab

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sales@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		sales
warranty@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		warranty
techserv@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		technical service

Select Manufacturer from drop down menu.

Contacts Tab

Email	CreatedBy	CreatedOn	Category	Company	Phone	ExtSystem	ExtObject	ExtIdentifier	Department
sales@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		sales
warranty@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		warranty
techserv@ABC Manufacturing.com	sales@ABC Manufacturing.com	2010-08-25T00:00:00	34-31 11: Manufacturer	ABC Manufacturing	555-555-1234		objContact		technical service

Enter Company Information:
Company Name, Phone,
Department & Address, etc.

Type Tab 1/3

A	B	C	D	E	F	G
Name	CreatedBy	CreatedOn	Category	Description	AssetType	Manufacturer
ABC Manufacturing-XM-123	sales@ABC Manufacturing.com	2011-04-14T10:12:03	23-80 50 11 14: Switches	decorator Toggle Switch	Fixed	sales@ABC Manufacturing.com

Name Field is the Key to the file. Suggestion:
Manufacturer name – Product Part Number.
Must be the same throughout file.

Type Tab 1/3

A	B	C	D	E	F	G
Name	CreatedBy	CreatedOn	Category	Description	AssetType	Manufacturer
ABC Manufacturing-XM-123	sales@ABC Manufacturing.com	2011-04-14T10:12:03	23-80 50 11 14: Switches	decorator Toggle Switch	Fixed	sales@ABC Manufacturing.com

Select email from drop down list. These field options refer to the person who entered the contact information or the 'author'.

Type Tab 1/3

Enter Date file was created: Year-Month-Date Time Stamp
XXXX-XX-XXT00:00:00

Name	CreatedBy	CreatedOn	Category	Description	AssetType	Manufacturer
ABC Manufacturing-XM-123	sales@ABC Manufacturing.com	2011-04-14T10:12:03	23-80 50 11 14: Switches	decorator Toggle Switch	Fixed	sales@ABC Manufacturing.com

Type Tab 1/3

A	B	C	D	E	F	G
Name	CreatedBy	CreatedOn	Category	Description	AssetType	Manufacturer
ABC Manufacturing-XM-123	sales@ABC Manufacturing.com	2011-04-14T10:12:03	23-80 50 11 14: Switches	decorator Toggle Switch	Fixed	sales@ABC Manufacturing.com

Select Product Type from drop down menu. US default is Omniclass Table 23

Type Tab 1/3

A	B	C	D	E	F	G
Name	CreatedBy	CreatedOn	Category	Description	AssetType	Manufacturer
ABC Manufacturing-XM-123	sales@ABC Manufacturing.com	2011-04-14T10:12:03	23-80 50 11 14: Switches	decorator Toggle Switch	Fixed	sales@ABC Manufacturing.com

Enter Product Description.

Type Tab 1/3

Asset type: Fixed or Moveable
Description of how it is used in building.

A	B	C	D	E	F	G
Name	CreatedBy	CreatedOn	Category	Description	AssetType	Manufacturer
ABC Manufacturing-XM-123	sales@ABC Manufacturing.com	2011-04-14T10:12:03	23-80 50 11 14: Switches	decorator Toggle Switch	Fixed	sales@ABC Manufacturing.com

Type Tab 1/3

A	B	C	D	E	F	G
Name	CreatedBy	CreatedOn	Category	Description	AssetType	Manufacturer
ABC Manufacturing-XM-123	sales@ABC Manufacturing.com	2011-04-14T10:12:03	23-80 50 11 14: Switches	decorator Toggle Switch	Fixed	sales@ABC Manufacturing.com

Select Manufacturer email from drop down menu.

Type Tab continued 2/3

Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0 Year			IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Warranty Guarantor Parts:
Select Email from drop down list
– added on contact page.

Type Tab continued 2/3

Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0 Year			IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Warranty Duration Parts: Number associated with the warranty period. Numeric only field. Unit of Measure in Duration Unit.

Type Tab continued 2/3

Warranty Guarantor Labor:
Leave blank if unknown.
(generally subcontractor)



Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0 Year			IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Type Tab continued 2/3

Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0 Year			IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Warranty Duration Labor: Number associated with the warranty period. Numeric only field. Unit of Measure in Duration Unit.



Type Tab continued 2/3

Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0	Year		IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Warranty Duration Unit: Unit of Measure associated with the warranty period. Drop down menu: days, weeks, years, etc.

Type Tab continued 2/3

Ignore Purple fields: not applicable to this sheet for manufacturer.



Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0 Year			IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Type Tab continued 2/3

Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0 Year			IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Replacement Cost: Enter in US dollars suggested retail price at time of population.

Type Tab continued 2/3

Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0 Year			IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Expected Product Life: Numeric only field.



Type Tab continued 2/3

Duration Unit: Unit of Measure associated with Product Life.



Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0 Year			IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Type Tab continued 2/3

Name	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem	ExtObject	ExtIdentifier	ReplacementCost	ExpectedLife	DurationUnit	WarrantyDescription
ABC Manufacturing-XM-123	warranty@ABC Manufacturing.com	1		0 Year			IfcSwitchingDeviceType		30	n/a	DurationUnit	Warranty1

Warranty Description:
Description of the Warranty



Type Tab continued 3/3

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Nominal Length, Width, Height –
Must be expressed in mm-
(25.4 mm per inch)

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Model Reference: Catalog or Part number. (for procurement)

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Shape: General shape of product: round, square, rectangle

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Size: general description of size:
standard, jumbo, small, miniature.

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Color: Dominant product color – white, black, ivory, brown, tan, red, etc.

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3


Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Finish: product appearance: satin, glossy, matt, bronze, brass, etc.

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a



Grade: Standard grading which the product corresponds. Standard, commercial, industrial, etc.

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Material: Characteristic of primary material of product – stainless steel, copper, nylon, plastic.

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Constituents: Accessories to the product.

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Features: Specific attributes that make your product unique for your brand. i.e. marketing statements

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Accessibility Performance: n/a


Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Code Performance: code compliance
– UL Listing, CSA, etc.



Set of Attributes that are common to all products regardless of type are found in this tab.

Type Tab continued 3/3

Name	Nominal Length	Nominal Width	Nominal Height	Model Reference	Shape	Size	Color	Finish	Grade	Material	Constituents	Features	Accessibility Performance	Code Performance	Sustainability Performance
ABC Manufacturing-XM-123	28.45	37.59	83.31	XM-123	rectangular	standard	Ivory	n/a	Commercial	Thermoplastic	XM-123W01	Ultrasonic welded body and integrated construction of the straps and bodies provide superior integrity.	n/a	UL/CSA	n/a

Sustainability Performance: Compliance
– LEED, green, RoHS

Set of Attributes that are common to all products regardless of type are found in this tab.

Documents Tab 1/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Enter Manufacturer Name, Product Name, & Document Name

Documents Tab 1/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Select email from drop down list. These field options refer to the person who entered the contact information or the 'author'.

Documents Tab 1/3

Enter Date file was
created: Year-Month-Date
Time Stamp
XXXX-XX-XXT00:00:00

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Documents Tab 1/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Category: Select document type from drop down menu.

Documents Tab 1/3

Select "Information Only"
from drop down menu.

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Documents Tab 1/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
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ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Select "submitted" from drop down menu.

Documents Tab 1/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
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ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Select "type" from drop down menu.

Documents Tab 1/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
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ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Select "type" from drop down menu.

Documents Tab Continued 2/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
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ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Enter Manufacturer Name, Product Name, & Document Name

Documents Tab Continued 2/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
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ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Select email from drop down list.
These field options refer to the person who entered the contact information or the 'author'.

Documents Tab Continued 2/3

Enter Date file was
created: Year-Month-Date
Time Stamp
XXXX-XX-XXT00:00:00

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
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ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Documents Tab Continued 2/3

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ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Select document type
from drop down menu.

Documents Tab Continued 2/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
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ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Select "information only"
from drop down menu.



Documents Tab Continued 2/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-Installation guide	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Manufacturer Instructions	Information Only	Submitted	Type	ABC Manufacturing-XM-123
ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Select "submitted" from drop down menu.



Documents Tab Continued 2/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
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ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Select "type" from drop down menu.



Documents Tab Continued 2/3

Name	CreatedBy	CreatedOn	Category	ApprovalBy	Stage	SheetName	RowName
ABC Manufacturing-XM-123-ProductData	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Product Data	Information Only	Submitted	Type	ABC Manufacturing-XM-123
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ABC Manufacturing-XM-123-MSDS	sales@ABC Manufacturing.com	2011-04-14T14:38:32	Specifications	Information Only	Submitted	Type	ABC Manufacturing-XM-123

Enter Manufacturer Name & Product Name exactly how it appears in the “name” column A in type tab

Documents Tab Continued 3/3

RowName	Directory	File	ExtSystem	ExtObject	ExtIdentifier	Description	Reference
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-Product Sheet XM-123.pdf		objDocument		Spec Sheet	p. 364
ABC Manufacturing-XM-123	http://www.ABC.com/IG	ABC-XM-123_Installguide.pdf		objDocument		Installation Guide	
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-XM-123_MSDS.pdf		objDocument		MSDS Sheet	

Enter Manufacturer Name, Product Name as it appears in 'Type' tab, Column A

Documents Tab Continued 3/3

RowName	Directory	File	ExtSystem	ExtObject	ExtIdentifier	Description	Reference
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-Product Sheet XM-123.pdf		objDocument		Spec Sheet	p. 364
ABC Manufacturing-XM-123	http://www.ABC.com/IG	ABC-XM-123_Installguide.pdf		objDocument		Installation Guide	
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-XM-123_MSDS.pdf		objDocument		MSDS Sheet	

Enter URL for the directory in which the document can be located.

Documents Tab Continued 3/3

Enter file name with file extension: - datasheet.pdf

RowName	Directory	File	ExtSystem	ExtObject	ExtIdentifier	Description	Reference
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-Product Sheet XM-123.pdf		objDocument		Spec Sheet	p. 364
ABC Manufacturing-XM-123	http://www.ABC.com/IG	ABC-XM-123_Installguide.pdf		objDocument		Installation Guide	
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-XM-123_MSDS.pdf		objDocument		MSDS Sheet	

Documents Tab Continued 3/3


Ignore Purple fields: not applicable to this sheet for manufacturer.

RowName	Directory	File	ExtSystem	ExtObject	ExtIdentifier	Description	Reference
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-Product Sheet XM-123.pdf		objDocument		Spec Sheet	p. 364
ABC Manufacturing-XM-123	http://www.ABC.com/IG	ABC-XM-123_Installguide.pdf		objDocument		Installation Guide	
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-XM-123_MSDS.pdf		objDocument		MSDS Sheet	

Documents Tab Continued 3/3

RowName	Directory	File	ExtSystem	ExtObject	ExtIdentifier	Description	Reference
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-Product Sheet XM-123.pdf		objDocument		Spec Sheet	p. 364
ABC Manufacturing-XM-123	http://www.ABC.com/IG	ABC-XM-123_Installguide.pdf		objDocument		Installation Guide	
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-XM-123_MSDS.pdf		objDocument		MSDS Sheet	

Additional information
about document



Documents Tab Continued 3/3

RowName	Directory	File	ExtSystem	ExtObject	ExtIdentifier	Description	Reference
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-Product Sheet XM-123.pdf		objDocument		Spec Sheet	p. 364
ABC Manufacturing-XM-123	http://www.ABC.com/IG	ABC-XM-123_Installguide.pdf		objDocument		Installation Guide	
ABC Manufacturing-XM-123	http://www.ABC.com/PD	ABC-XM-123_MSDS.pdf		objDocument		MSDS Sheet	

Enter Reference Information: Example:
Page number product appears in catalog.

Attributes Tab 1/2

Name	CreatedBy	CreatedOn	Category	SheetName	RowName	Value	Unit
UNSPSC	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	39121507: Toggle switches	classification
NominalCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
UsageCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
NominalVoltageLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalVoltageUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalPower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		Watt
NumberOfPoles	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	number
HasProtectiveEarth	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	true	logical
FrequencyRangeLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
FrequencyRangeUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
PhaseAngle	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		degree
PhaseReference	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	
IPCode	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	IP2X	
InsulationStandardClass	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		enum
CurrentType	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	ac	enum

Enter Attribute Name: no spaces

Attributes Tab 1/2

Name	CreatedBy	CreatedOn	Category	SheetName	RowName	Value	Unit
UNSPSC	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	39121507: Toggle switches	classification
NominalCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
UsageCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
NominalVoltageLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalVoltageUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalPower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		Watt
NumberOfPoles	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	number
HasProtectiveEarth	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	true	logical
FrequencyRangeLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
FrequencyRangeUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
PhaseAngle	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		degree
PhaseReference	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	
IPCode	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	IP2X	
InsulationStandardClass	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		enum
CurrentType	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	ac	enum

Select email from drop down list. These field options refer to the person who entered the contact information or the 'author'.

Attributes Tab 1/2

Enter Date file was
created: Year-Month-Date
Time Stamp
XXXX-XX-XXT00:00:00

Name	CreatedBy	CreatedOn	Category	SheetName	RowName	Value	Unit
UNSPSC	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	39121507: Toggle switches	classification
NominalCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
UsageCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
NominalVoltageLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalVoltageUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalPower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		Watt
NumberOfPoles	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	number
HasProtectiveEarth	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	true	logical
FrequencyRangeLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
FrequencyRangeUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
PhaseAngle	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		degree
PhaseReference	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	
IPCode	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	IP2X	
InsulationStandardClass	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		enum
CurrentType	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	ac	enum

Attributes Tab 1/2

Name	CreatedBy	CreatedOn	Category	SheetName	RowName	Value	Unit
UNSPSC	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	39121507: Toggle switches	classification
NominalCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
UsageCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
NominalVoltageLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalVoltageUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalPower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		Watt
NumberOfPoles	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	number
HasProtectiveEarth	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	true	logical
FrequencyRangeLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
FrequencyRangeUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
PhaseAngle	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		degree
PhaseReference	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	
IPCode	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	IP2X	
InsulationStandardClass	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		enum
CurrentType	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	ac	enum

Select "submitted" from drop down menu.

Attributes Tab 1/2

Select "type" from drop down menu.

Name	CreatedBy	CreatedOn	Category	SheetName	RowName	Value	Unit
UNSPSC	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	39121507: Toggle switches	classification
NominalCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
UsageCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
NominalVoltageLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalVoltageUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalPower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		Watt
NumberOfPoles	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	number
HasProtectiveEarth	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	true	logical
FrequencyRangeLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
FrequencyRangeUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
PhaseAngle	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		degree
PhaseReference	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	
IPCode	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	IP2X	
InsulationStandardClass	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		enum
CurrentType	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	ac	enum

Attributes Tab 1/2

Name	CreatedBy	CreatedOn	Category	SheetName	RowName	Value	Unit
UNSPSC	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	39121507: Toggle switches	classification
NominalCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
UsageCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
NominalVoltageLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalVoltageUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalPower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		Watt
NumberOfPoles	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	number
HasProtectiveEarth	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	true	logical
FrequencyRangeLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
FrequencyRangeUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
PhaseAngle	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		degree
PhaseReference	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	
IPCode	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	IP2X	
InsulationStandardClass	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		enum
CurrentType	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	ac	enum

Enter Manufacturer Name & Product Name exactly how it appears in the "name" column A in type tab

Attributes Tab 1/2

Name	CreatedBy	CreatedOn	Category	SheetName	RowName	Value	Unit
UNSPSC	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	39121507: Toggle switches	classification
NominalCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
UsageCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
NominalVoltageLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalVoltageUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalPower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		Watt
NumberOfPoles	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	number
HasProtectiveEarth	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	true	logical
FrequencyRangeLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
FrequencyRangeUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
PhaseAngle	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		degree
PhaseReference	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	
IPCode	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	IP2X	
InsulationStandardClass	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		enum
CurrentType	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	ac	enum

Enter the actual value for the attribute label for product selected.



Attributes Tab 1/2

Name	CreatedBy	CreatedOn	Category	SheetName	RowName	Value	Unit
UNSPSC	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	39121507: Toggle switches	classification
NominalCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
UsageCurrent	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	15	Amp
NominalVoltageLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalVoltageUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	120	Volt
NominalPower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		Watt
NumberOfPoles	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	number
HasProtectiveEarth	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	true	logical
FrequencyRangeLower	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
FrequencyRangeUpper	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	60	Hz
PhaseAngle	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		degree
PhaseReference	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	1	
IPCode	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	IP2X	
InsulationStandardClass	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123		enum
CurrentType	sales@ABC Manufacturing.com	2010-08-25T00:00:00	Submitted	Type	ABC Manufacturing-XM-123	ac	enum

Enter Unit of Measure if applicable to the attribute label.

Attributes Tab Continued 2/2

Name	Value	Unit	ExtSystem	ExtObject	ExtIdentifier	Description	AllowedValues
UNSPSC	39121507: Toggle switches	classification		IfcPropertySingleValue		UNSPSC	
NominalCurrent	15	Amp		IfcPropertySingleValue	Pset_ElectricalDeviceCommon	The maximum allowed current that a device is certified to handle.	
UsageCurrent	15	Amp		IfcPropertySingleValue	Pset_ElectricalDeviceCommon	The current that a device is actually handling or is calculated to be handling	
NominalVoltageLower	120	Volt		IfcPropertySingleValue	Pset_ElectricalDeviceCommon	The range of allowed voltage that a device is certified to handle. The upper bound of this value is the maximum.	
NominalVoltageUpper	120	Volt		IfcPropertySingleValue	Pset_ElectricalDeviceCommon	The range of allowed voltage that a device is certified to handle. The upper bound of this value is the maximum.	
NominalPower		Watt		IfcPropertySingleValue	Pset_ElectricalDeviceCommon	The output power rating that is certified	
NumberOfPoles	1	number		IfcPropertySingleValue	Pset_ElectricalDeviceCommon	The number of logical connections that can be made on an electrical device	
HasProtectiveEarth	true	logical		IfcPropertySingleValue	Pset_ElectricalDeviceCommon	Indicates whether the electrical device has a protective earth connection	true, false, unknown
FrequencyRangeLower	60	Hz		IfcPropertySingleValue	Pset_ElectricalDeviceCommon	The lower limit of frequency for which the operation of the device is certified.	
FrequencyRangeUpper	60	Hz		IfcPropertySingleValue	Pset_ElectricalDeviceCommon	The upper limit of frequency for which the operation of the device is certified	

Extidentifier: Identifies name of Property Set which contains attribute labels.

If Entering new attribute labels: Provide attribute label, definition, unit of measures, and allowable values.

Want More Information

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