

Safe Harbor Statement

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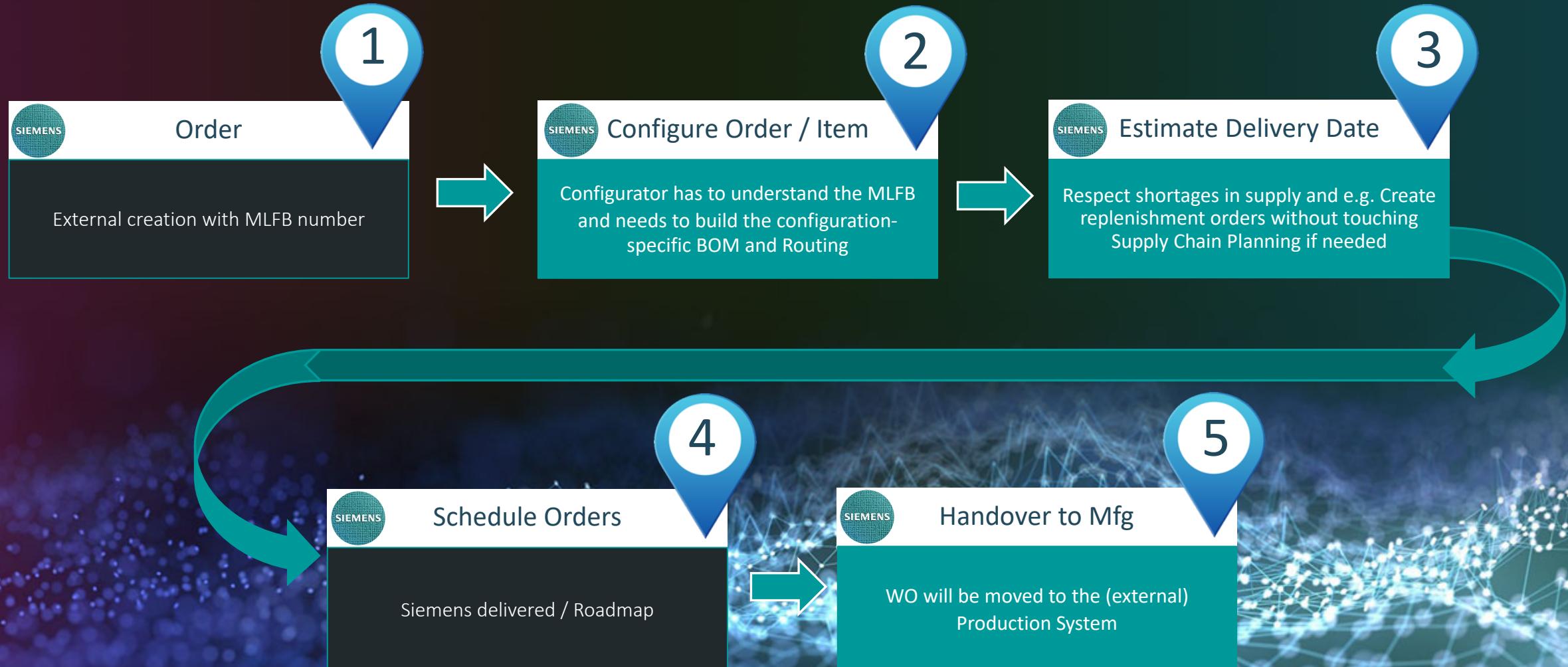
SIEMENS

Agility and Ingenuity Together

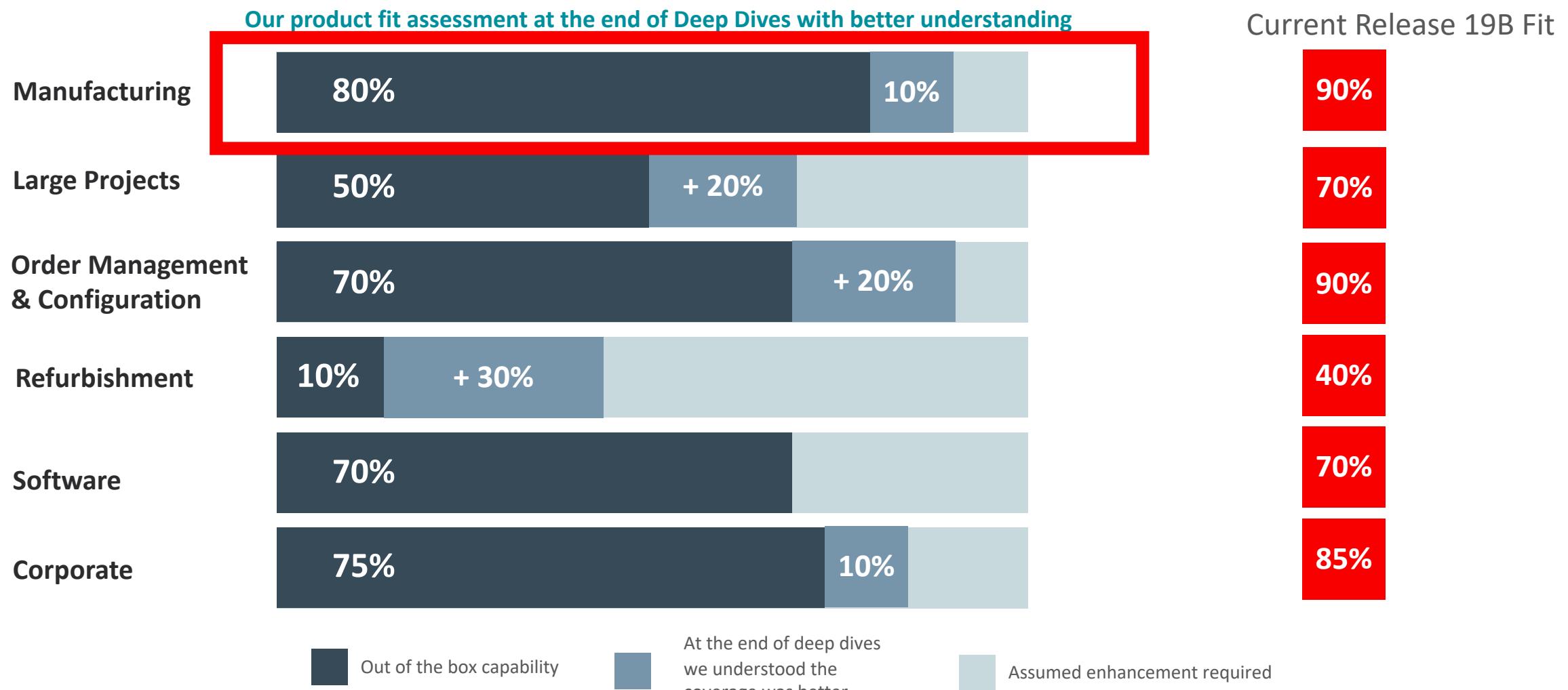
Deep Dive 1:
Manufacturing
Dietmar Schraub
(Hans-H.Schulz DD1 Leader)

ORACLE®

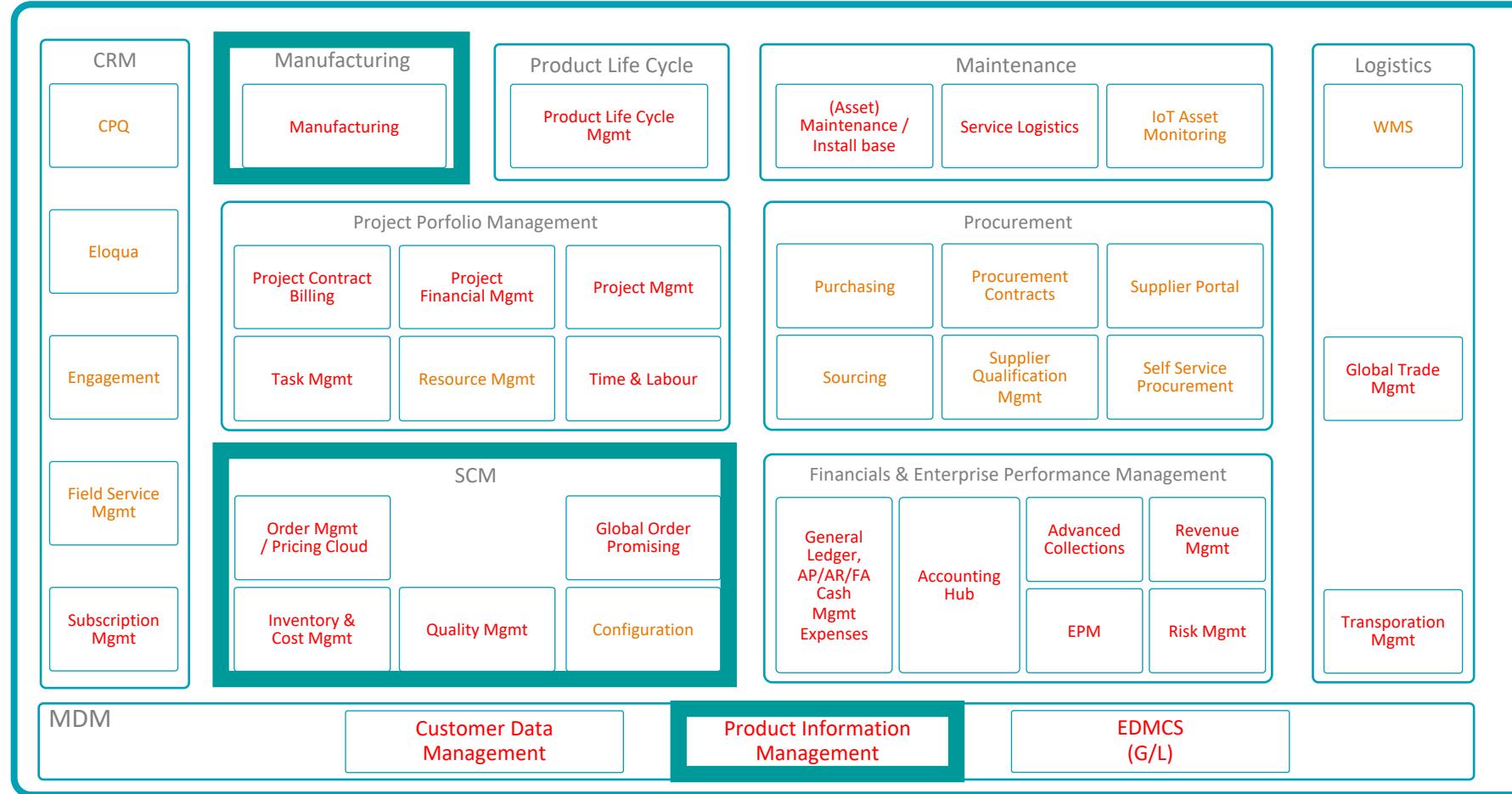
Manufacturing: Order to Production



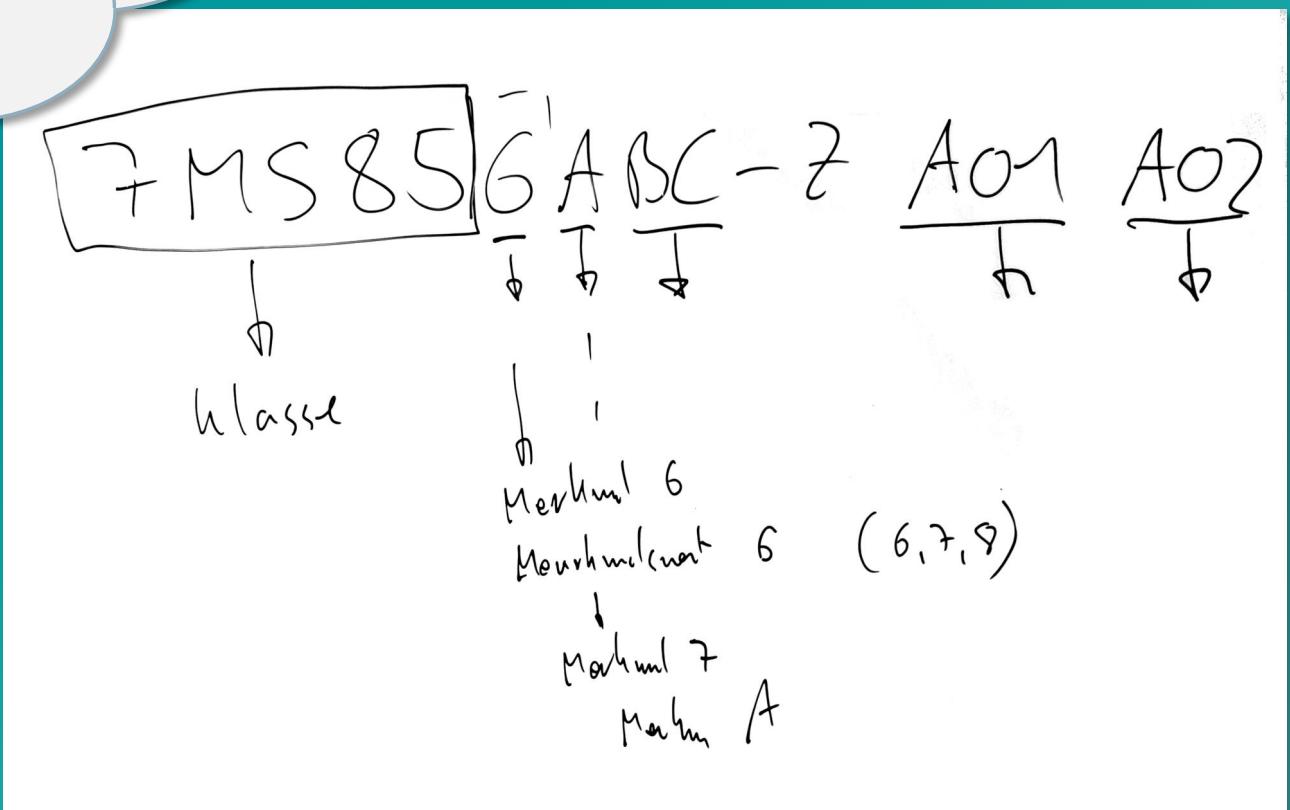
Deep Dive Fit – Current Support (End May '19)



Cloud Services



Is there a solution available that can understand our MLFB configuration logic in standard?



Cloud Solution

- Existing numbering system can be used with new solution in standard
- Any business unit in any location is able to check validity of a specific configuration / number
- You can configure a product → you get item, BOM, routing and the MLFB number
- You can enter the MLFB directly → you get item, BOM and routing

1 2 3
Your Custom Tablet Options Accessories

Configure: Tablet Options

Order: Business World | Currency = US Dollar

MLFB

S01C03R06S08C11C13B15C18

Screen 8" Display w/Capacitive Multi-touch Overlay [\$0,00]



CPU Quad Core 1.9GHz [\$0,00]
 Quad Core 2.5GHz [\$20,00]

Memory Memory 1GB DDR2 [\$0,00]
 Memory 2GB DDR2 [\$30,00]
 Memory 4GB DDR2 [\$40,00]

Storage 16GB [\$0,00]
 32GB [\$45,00]
 64GB [\$55,00]

Connectivity Connectivity WiFi 802.11 a/b/g/n/ac / Bluetooth [\$0,00]
 Connectivity WiFi 802.11 a/b/g/n/ac/Bluetooth/4G LTE [\$22,00]

Camera Camera - Primary 8MP / Secondary 1.2MP [\$35,00]
 Camera - Primary (8MP) Only [\$0,00]

Battery Battery 3.8V/2600mAh [\$7,00]
 Battery 3.8V/3200mAh [\$10,00]
 Battery 3.8V/4000mAh [\$15,00]

Configurator could generate the MLFB based on selected options, or ...



Next

Save for Later

Finish and Review

Finish

Cancel

Summary

Currency = US Dollar

Total Net Price	401,00
Item	Amount
Vision Slimline 5000 Custom Tablet	329,00
8" Display w/Capacitive Multi-touch Ove...	0,00
Quad Core 1.9GHz	0,00
Memory 2GB DDR2	30,00
16GB	0,00
Connectivity WiFi 802.11 a/b/g/n/ac / Blu...	0,00
Camera - Primary 8MP / Secondary 1.2...	35,00
Battery 3.8V/2600mAh	7,00
Silver Rear Case Assembly	0,00

1 2 3
Your Custom Tablet Options Accessories

Configure: Your Custom Tablet

Order: Business World | Currency = US Dollar

Smart Part Number? Yes ▾

MLFB

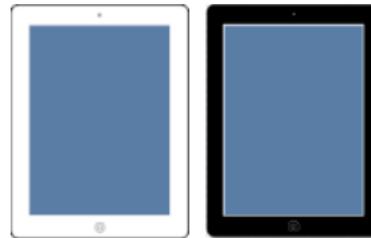
... you could generate a configuration and select options ...

Plan to use Skype or Video Conferencing? Yes No

Plan to watch a lot of videos? Yes No

Connectivity Preference? ▾

Tablet Color



Next Save for Later Finish and Review Finish Cancel

Summary

Currency = US Dollar

Total Net Price 329,00

Item	Amount
------	--------

Vision Slimline 5000 Custom Tablet	329,00
------------------------------------	--------

1

2

3

Your Custom
Tablet Options Accessories

Configure: Your Custom Tablet

Order: Business World | Currency = US Dollar

Smart Part Number? Yes ▾

MLFB

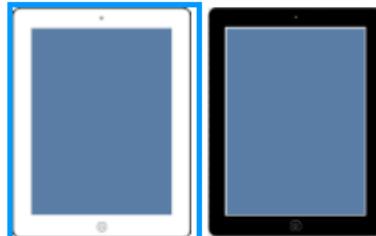
S01C03R05S08C11C13B15C18

Plan to use Skype or Video Conferencing? Yes No

Plan to watch a lot of videos? Yes No

Connectivity Preference? WiFi ▾

Tablet Color Silver Rear Case Assembly [\$0,00]



Silver Monogram

DSC

... just by
adding/importing
the MLFB.
Optional
Information (e.g. a
Monogram) can be
defined ...



ext Save for Later Finish and Review Finish Cancel

Summary

Currency = US Dollar

Total Net Price 371,00

Item	Amount
Vision Slimline 5000 Custom Tablet	329,00
8" Display w/Capacitive Multi-touch Ove...	0,00
Quad Core 1.9GHz	0,00
Memory 1GB DDR2	0,00
16GB	0,00
Connectivity WiFi 802.11 a/b/g/n/ac / Blu...	0,00
Camera - Primary 8MP / Secondary 1.2...	35,00
Battery 3.8V/2600mAh	7,00
Silver Rear Case Assembly	0,00

Overview Manage Work Orders x Work Order: WO-002-1069 (002) x

Edit Work Order: WO-002-1069 - AT6751000*250

General Information Operations (5) Reservations (1) History

* Status Released ▾

Start Date 19.04.19 01:48

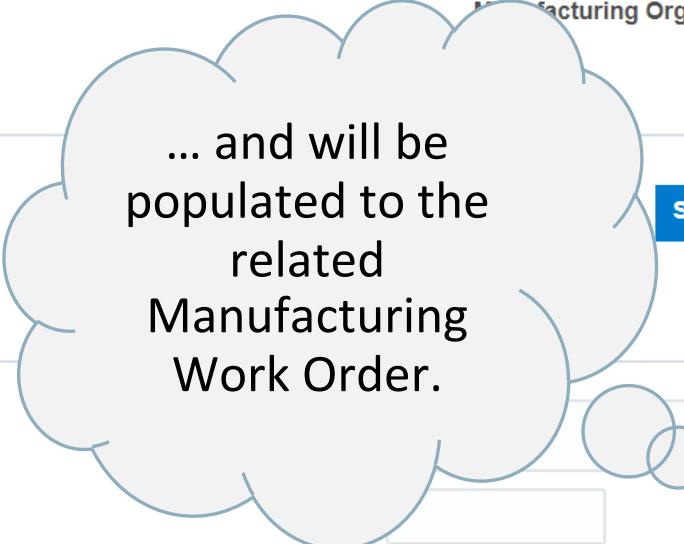
Completion Date 19.04.19 01:59

Product

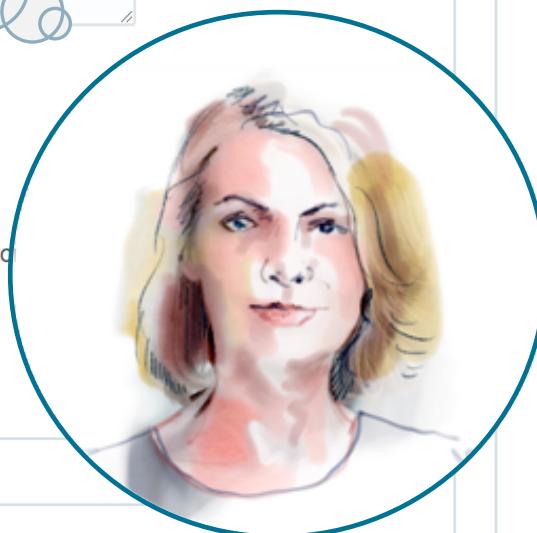
Item AT6751000*250

Quantity 1 Ea

... and will be populated to the related Manufacturing Work Order.

Save Save and Close Cancel

Item Description Vision Slimline 5000 Custo



Configuration Transactional Attributes

Item	Type	Name	Value
AT6751000	Model	MLFB	S01C03R05S08C11C13B15C18
CM4751118	Standard	Monogram	DSC

UOM	Component Hierarchy
Ea	'AT6751000' 'AT6751000'.'OC4751170'.'CM4751118'

▶ Work Definition

▶ Item Structure

▶ Details

Manage Items

Select Item Class for Search

Item Class Tablet Slimline Models

Advanced Search

** Item Starts with

** Description Starts with Keyword

** Keyword

Catalog Equals

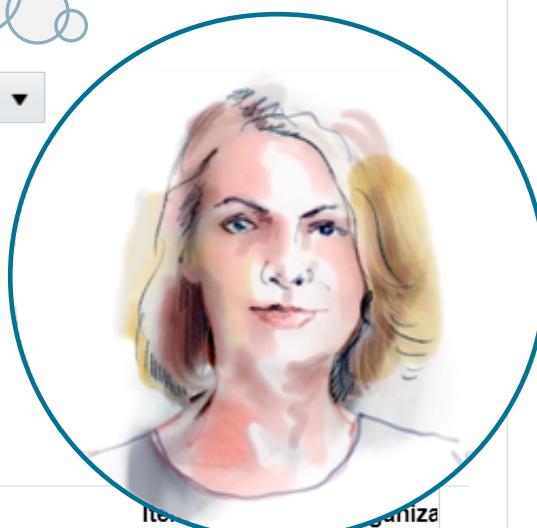
With integrated Reporting and automated Item Update we can “Re-import” the MLFB for searching ...

Category Equals

Organization Equals

Context Equals

Saved Search AT6751000



Search Results

Actions View Format + X Detach Wrap Hide Manage Item Mass Changes

Item	Description	Approval Status	Item Status	Long Description	Item Type	Organization	Category
AT6751000	Vision Slimline 5000 Custom Tablet	Approved	Active	Vision Slimline 5000 Custom Tablet	Tablet Slimline ...	000	
AT6751000*110*	Vision Slimline 5000 Custom Tablet	Approved	Active	Vision Slimline 5000 Custom Tablet	Tablet Slimline ...	000	
AT6751000*140*	Vision Slimline 5000 Custom Tablet	Approved	Active	Vision Slimline 5000 Custom Tablet	Tablet Slimline ...	000	
AT6751000*190	Vision Slimline 5000 Custom Tablet	Approved	Active	S02C04R07S10C23C14B17C18	Tablet Slimline ...	000	



Manage Items

Select Item Class for Search

Item Class Saved Search

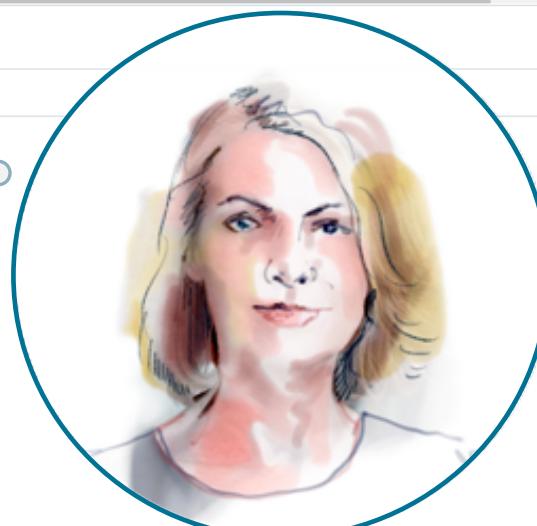
Search Results

Actions View Format Detach Hide Manage Item Mass Changes

	Item	Description	Approval Status	Item Status	Long Description	Item Class	Organization
	AT6751000*250	Vision Slimline 5000 Custom Tablet	Approved	Active	S01C03R05S08C11C13B15C18	Tablet Slimline ...	000

Columns Hidden 336

... so that you will find the configured Item behind it.





What level of
“intelligence” delivers
your availability check
system?

Order: Quest Automation Ltd - 90365 - Processing

[Social](#) [Actions ▾](#) [Refresh](#) [Done](#)

Last Refreshed 4/12/19 11:55 AM

Customer	Quest Automation Ltd	Source Order Revision	1	Customer Contact	Riva Polsky
Customer Registry ID	80060	Source Order Revision Date		Reason for Change Order	
Purchase Order		Source Order	90365	Comments	
Status	Processing	Source Document Type	Sales order	Canceled Date	
User Request Status		Ordered Date	4/12/19 11:45 AM	Attachments	None
On Hold		Processes Assigned	Yes	Additional Information	
Source Order System	OPS	Message Type			
Revision Source Order System		Business Unit	US1 Business Unit		

[Order Lines](#) [Fulfillment Lines](#) [Returns](#)
[Actions ▾](#) [View ▾](#) [Format ▾](#) [Check Availability](#) [Detach](#)

Fulfillment Line	Exception Type	Message Type	User Request Type	Item Status	Item Description	Ordered Quantity	UOM	Order Line	Orchestration Process Number	Source Order	Status	Warehouse	Supplier	Drop Shipment PO	Supply Order Number	Scheduled Ship Date	Shipping Method	Orchestration Process Name	Require Fulfillm
1-1					WT000500 Wind Turbine with Tower 500	1	Ea	1	300000181000618	90365	Awaiting Sh...	102			4/12/19 10:59 PM		DOO_OrderFulfillmentGe...		
					WT000502 Wind Turbine Assembly 500	2	Ea	1.1	300000181000618	90365	Awaiting Sh...	102		30000018100...	4/12/19 10:59 PM		DOO_OrderFulfillmentGe...		
					WT000164 Tower	1	Ea	1.2	300000181000618	90365	Awaiting Sh...	102			4/12/19 10:59 PM		DOO_OrderFulfillmentGe...		

Rows Selected 1 Columns Hidden 113 Columns Frozen 5

Fulfillment Line 90365 - 1-1: Details

[Analytics](#)[Attributes](#)
[General](#) [Supply Details](#) [Shipping](#) [Billing](#) [Item Details](#) [Holds](#) [Tax](#) [Trade Compliance](#) [Service Details](#)

(Configured) Item is not on stock → will be produced
System respects:

- All sources of supply
- Constraints in material and capacity over all levels in the supply chain



System creates Work order to fulfill demand

Exception Type	UOM	Ea	Order Transactional Value	37,589.50 USD
Model	Status	Awaiting Shipping	Order Standardized Value	37,589.50 USD
Model Remnant	Source Order System	OPS	Fulfillment Line Transactional Value	3,581.50 USD
Message Type	Source Schedule Number	1	Fulfillment Line Standardized Value	3,581.50 USD
User Request Status	Customer PO		Currency	USD

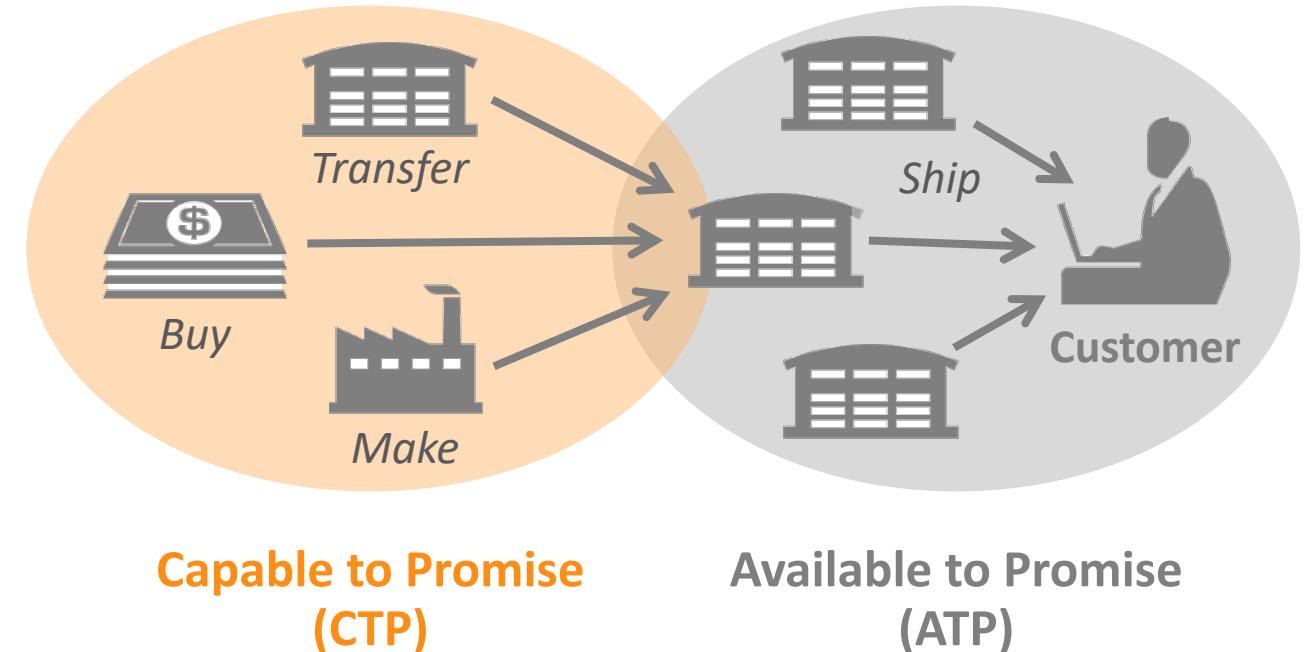


Can your system
support automatic
handling of shortages
in capacity and
material?

Automatic handling of shortages

If needed item is not on stock:

- Available in other Warehouse?
- Can we produce it?
- Can we buy it?
- Partial delivery?
- Later delivery?
- What are the associated costs?
→ give me the most economic solution
- Configured trigger can be used to order needed material on the fly



Benefit potentials

- Consistent handling of configurations in all Units and locations
- Adoption of MFLB and additional Keyword Search capabilities
- Reliable delivery date at the time the order comes in
- Automatic handling of several shortage scenarios

So, what
are my
benefits?

⋮
⋮



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