A2M (Able To Make)

Advanced Available To Promise

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IXAUG News

Join INFOR Concierge to access the IXAUG and EIUG communities' sites. We miss you!
https://concierge.infor.com/

Enterprise Integrator Meeting 2021
Pewaukee, Wi
September 15th – 17th
Onsite, in person meeting on 9/15 followed by the ISE/TriMin XA User Conference.
Please submit presentation proposals to EIUGconference@gmail.com!

Why Able To Make?

- Order Processing
  - To give more accurate and complete promise dates and quantities
- Planners & Schedulers
  - To look at detailed availability at all BOM levels & provide expedited dates
- Estimating & Quotations
  - To give available promise dates based on feasible material plans
- Field Service
  - To check availability of service parts and/or assemblies

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A Simple 3-Level BOM

Indented Bill of Material

Details: Engineering

Identification	Co...	Req	Qty per	Oper
CMP101 Compressor Model 101 Rev: Alt:	5	1.000	SBQ: 1.000	
D101 DriveAssy for Modle 101 Rev: Alt: Seq:	2	1.000	1.000	
LG101 Large Wheel for Model 101 Rev: Alt: Seq:		1.000	1.000	
SM101 Small Wheel for Model 101 Rev: Alt: Seq:		1.000	1.000	
EL101 Electric Assy for Model 101 Rev: Alt: Seq:	3	1.000	1.000	
CTL101 Control Pack for Model101 Rev: Alt: Seq:		1.000	1.000	
PG101 Pressure Gauge Model 101 Rev: Alt: Seq:		1.000	1.000	
PWR101 Power Package for Model 101 Rev: Alt:		1.000	1.000	
EM101 Motor for Model 101(Elec) Rev: Alt: Seq:		1.000	1.000	
F101 Filter for M101 Rev: Alt: Seq:		1.000	1.000	
H101 Hose Assy for Model 101 Rev: Alt: Seq:	3	1.000	1.000	
NZ101 Nozzle Accesory Kit Rev: Alt: Seq:		1.000	1.000	
RH025 1/4 Inch Raw Hose Rev: Alt: Seq:		60.000	60.000	
RSPRNG Raw Sprint Material Rev: Alt: Seq:		12.000	12.000	

Item Warehouses

Whs	Item	Lead time code	Lead time manufacturing	Lead time purchase
1	CMP101	M	5.0	0.0
1	CN101	P	0.0	25.0
1	CTL101	P	0.0	45.0
1	D101	M	7.0	0.0
1	EL101	M	5.0	0.0
1	EM101	P	0.0	70.0
1	F101	P	0.0	20.0
1	H101	M	5.0	0.0
1	LG101	P	0.0	15.0
1	NZ101	P	0.0	7.0
1	PG101	P	0.0	5.0
1	PWR101	P	0.0	25.0
1	RH025	P	0.0	50.0
1	RSPRNG	P	0.0	25.0
1	SM101	P	0.0	7.0

CLT = 75

CMFLT = 12

Is it really that simple?

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Scenario #1

- Customer requests 125 Model 101 Air Compressors (CMP101)
  - 100 on hand
  - 75 on order (Time Phased)
  - 175 allocated
  - All Purchased Components for incremental demand is on hand except RH025 (Raw Hose). 1000 feet is due in 21 days.
- Non-Disruptive - Can provide all 125 in 31 days (Remaining time for RH025 (21) + Manufacturing time for H101 (5) + Manufacturing time for CMP101 (5)

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Scenario #2

- Customer requests 250 Model 101 Air Compressors (CMP101).
  - 100 on hand
  - 75 on order (Time Phased)
  - 175 allocated
  - All Purchased Components for incremental demand are on hand except RH025 (Raw Hose). 1000 Feet is due in 21 days.
- Non-Disruptive - Can provide all 250 in 60 days. 1000 feet of RH025 will only fill 200 units. Full lead time of Raw Hose RH025 (50) + manufacturing time of H100 (5) + manufacturing time of CMP101 (1).

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Scenario #3

- Customer Requests 1 unit in an emergency need
  - 0 on hand
  - 0 on order
  - 0 allocated
  - No Subassemblies on hand or on order
  - All Purchased Materials are on hand
- Non-Disruptive - Can provide one unit in 12 days (Manufacturing time for D101 and CMP101.)
- Realistically could likely produce in a day using expediting through the floor.

ATP vs. Able to Make

ATP

- Only looks for availability at top level
- Available from inside CSM, COM

A2M

- Considers availability at *all* levels of the BOM
- May provide CSM, COM Promise Date when ATP cannot.
- Provides rapid “what if” viewing
- Available from other devices through Net-Link

Historical Look

- I2A2 (American Viking)
  - PDM Only
  - No Source Available
  - Crashes Often
  - Green Screen Only

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Use Cases

Make To Stock Manufacturer

- “Customer asking for an item that is usually in stock but has been selling faster than expected. I need to know what I have on hand right now that I can use to build enough to satisfy this request and when?”

Configure To Order Manufacturer

- “Customer wants 25 of a configuration of item XYZ. How quickly can I get all 25 and/or partials using existing inventory?”

Available To Promise

Component Availability

Able to Make

File
Customize
Navigation
Help
Aglity Additional Projects
Able to Make
Item Revisions
Item Warehouses

Select item from favorites

Specify quantity and date.

Calculate availability.

Analyze shortages

Receipts and allocations

Demonstration

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Simple bill of material

A2M000
-A2M002 (2 per)
-A2M003
-A2M004

Create customer order with ATP

- No inventory
- No receipts

Replace ATP with A2M

A - Agility SBCS.hod

File Edit View Communication Actions Window Help

Run the Same | Run Other... | Integrated File System | Navigator for i... | Printer Output | Run SQL Scripts | Record Macro... | Stop Macro | Play Macro... | Scratch Pad | Display Popup Keypad | To IBM i | From IBM i

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AMVB2DFR                        Activate User Exits                        DISPLAY

Application . . . . :   CAS  Cross Application Support          Active
Process Group . . . :   CLC  Calculations                       Active
Position to code . . . . . .   _

Type options; press Enter.
  16=Activate   17=Deactivate

Opt  Code  Description                Type          Status       Program
16    1    ATP calculation            API           Active       UMVCLC1R
_     2    End ATP calculation        User Exit     Inactive     UMVCLC2R
_     3    VAT/Sales tax calculation  API           Inactive     UMZCLC3R
_     4    End VAT/Sales tax calc     User Exit     Inactive     UMZCLC4R
_     5    API:CTP/ATP Calculation    API           Inactive     UMZCLC5R

F3=Exit      F7=Backward   F8=Forward   F11=Job status
F12=Return

MA    A                 MW                                          12/002
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Bill with common component

A2M001
-A2M002 (2 per)
-A2M003
-A2M004
-A2M003

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Configured Item

Future possibilities

- Ability to view in a disruptive or non-disruptive mode
- Ability to lock allocations by customer class (Preferred customer allocations)
- Ability to view quantity breaks in availability window
- View of specific orders impacted in a disruptive model

Questions?

A2M in Net-Link

Level	Component	Description	Type	Required	U/M	Short	Available	On-hand	Receipts
	A2M001	Assembly	Assembly	7	EA	4	3	5	0
1	A2M002	Subassembly 1	Fabricated	14	EA	7	1	1	0
.2	A2M003	Component 1	Purchased	14	EA	0	27	2	25
.2	A2M004	Component 2	Purchased	14	EA	0	25	5	20
1	A2M003	Component 1	Purchased	7	EA	0	27	2	25

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Thank you for attending!

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440-546-9290