



# SINTEX PRODUCTION



# ROUTING, WORKORDER AND EXPLOSION CONFIGURATION



- Within the edit mode inside process, Two operations : Mixing and Moulding are added.
- Both the operations are connected and while connecting good is chosen as the WIP Content class.

Self-Paced Portal   Lobby   Lab   Desktop ▾   Support

Ek Nath Mohite (1065835400) ▾

DELMIA Apriso Process Builder - [TRN23H1APR3RT] - SYN\_Sintex\_Production - SYN.000.000.000

File Edit View Managers Tools Entity Navigation Functions Window Help

Entity Explorer

- SYN\_Sintex\_Production (SYN.000.000.000)
  - Sintex\_FP
  - 0010 - Mixing
  - 0020 - Moulding

Entity Manager   Project Manager   SYN\_Sintex\_Pr...N.000.000.000

SYN\_Sintex\_Production (SYN.000.000.000)

Design of Operation Navigation flow is available after pressing Edit Operation Navigation button. To confirm changes to Operation Navigation, use Exit Edit Mode button.

Validate   Test Run   Edit Operation Navigation

CP duration: 1.5

Start → Mixing (0010 - Mixing, Duration: 0.50) → Good → Moulding (0020 - Shaping and Extrusion, Duration: 1.00)

Properties

General   Advanced

Name: SYN\_Sintex\_Production

Process code: SYN\_Sintex\_Production

Revision: SYN.000.000.000

☒ Default revision

Description:

Valid between: 01/09/2024 12:00 AM and

Version: 1.0.0.6   Edit Mask

Version host: TRN23H1APR3RT

Compilation date: 1/9/2024 6:27 AM

☒ Allow editing in Prototype mode

Connected to TRN23H1APR3RT as ADMIN   Sign off on release not required   Design Mode is enabled   Editable   Prototype 100%

- Within mixing operation in Entity Explorer, drag and drop roles, work centres, products and documents as mentioned in below image.

Self-Paced Portal   Lobby   Lab   Desktop   Support   Eknath Mohite (1065835400)

DELMIA Apriso Process Builder - [TRN23H1APR3RT] - SYN\_Sintex\_Production - SYN.000.000.000

File Edit View Managers Tools Entity Navigation Functions Window Help

Entity Explorer

- SYN\_Sintex\_Production (SYN.000.000.000)
  - Sintex\_FP
    - 0010 - Mixing
      - SYN\_Machine Operator
      - Furnace\_WC
      - DC\_SYN\_01 - SYN.000
      - DC\_SYN\_02 - SYN.000
      - POLYTHENE
      - UV Stabilizer
      - Flame retardant
      - 1 - Mixing and Heating
    - 0020 - Moulding

Toolbox

- Flow Elements
  - Stop/End
  - Logout/Exit
  - Back
  - Skip/Abandon
- Steps
  - Step
  - Existing Step
  - Decision Step
  - Step with Sub Operation
- Links

Entity Manager   Project Manager   SYN\_Sintex\_Pr...N.000.000.000

SYN\_Sintex\_Production (SYN.000.000.000) ▶ 0010 - Mixing   Validate   Test Run

1. Mixing and Heat...

Properties

General   Work Instruction   Advanced

Name  
Mixing

Operation code  
Mixing

Revision

Execution Template

Description  
Operation Sequence No.  
0010

Process Operation type  
Labor

Valid between  
01/09/2024 12:00 AM  
and

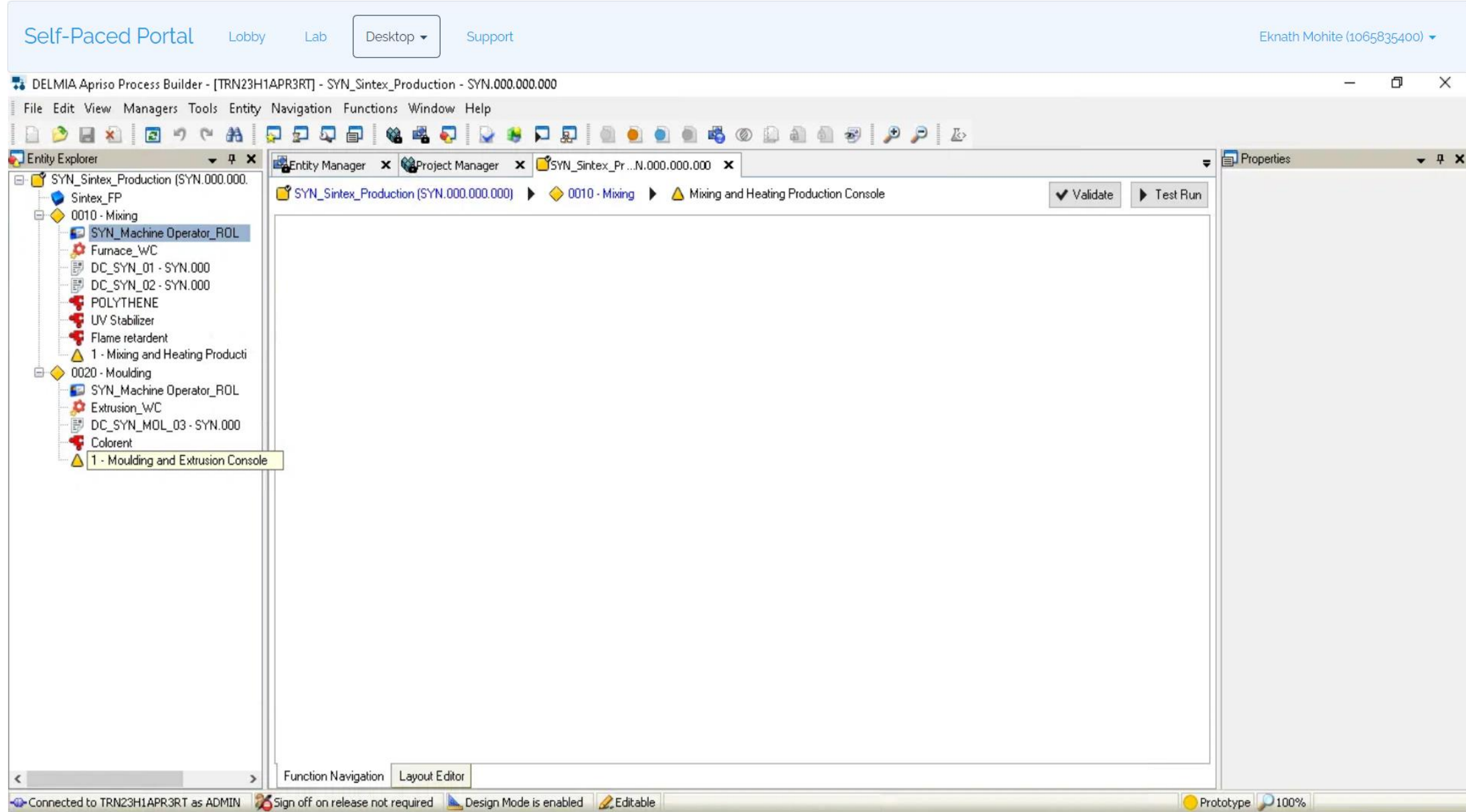
Step shown on preview

Maximum Steps to display  
1

Connected to TRN23H1APR3RT as ADMIN   Sign off on release not required   Design Mode is enabled   Editable   Prototype   100%



- Similarly within moulding operation in Entity Explorer, drag and drop roles, work centres, products and documents as mentioned in below image.



- Within mixing operation properties, visibility is set to always and display mode is set to pop-up and at last work instruction is also linked.

Self-Paced Portal Lobby Lab Desktop Support Eknath Mohite (1065835400)

DELMIA Apriso Process Builder - [TRN23H1APR3RT] - SYN\_Sintex\_Production - SYN.000.000.000

File Edit View Managers Tools Entity Navigation Functions Window Help

Entity Explorer

- SYN\_Sintex\_Production (SYN.000.000.000)
  - Sintex\_FP
    - 0010 - Mixing
      - SYN\_Machine Operator\_ROL
      - Furnace\_WC
      - DC\_SYN\_01 - SYN.000
      - DC\_SYN\_02 - SYN.000
      - POLYTHENE
      - UV Stabilizer
      - Flame retardant
      - 1 - Mixing and Heating Producti
    - 0020 - Moulding
      - SYN\_Machine Operator\_ROL
      - Extrusion\_WC
      - DC\_SYN\_MOL\_03 - SYN.000
      - Colorent
      - 1 - Moulding and Extrusion Con

Entity Manager Project Manager SYN\_Sintex\_Pr...N.000.000.000

SYN\_Sintex\_Production (SYN.000.000.000)

Design of Operation Navigation flow is available after pressing Edit Operation Navigation button. To confirm changes to Operation Navigation, use Exit Edit Mode button. Edit Operation Navigation

CP duration: 1.5

Start

Mixing

0010

Melting and Mixing

Duration: 0.50

Good

Moulding

0020

Shaping and Extrusion

Duration: 1.00

Properties

General Work Instruction Advanced

Visibility

☒ Always ☐ Never ☐ Dynamic

Display Mode

☐ Sidebar ☒ Pop-up ☐ Maximized

Docking

☐ Top ☒ Left ☐ Right ☐ Bottom

Size

Width: px Height: px

Source

☒ Linked ☐ Dynamic List

List of Work Instructions

Sequenc	Work Instruction	Revision	Type	Displa
1	WI_SYN_Mix...	SYN.000	Single	Always

Connected to TRN23H1APR3RT as ADMIN Sign off on release not required Design Mode is enabled Editable Prototype 100% 6

- Same thing is done for the properties of moulding operation.(Note: Display mode: Sidebar)

Self-Paced Portal   Lobby   Lab   Desktop   Support   Eknath Mohite (1065835400)

DELIA Apriso Process Builder - [TRN23H1APR3RT] - SYN\_Sintex\_Production - SYN.000.000.000

File Edit View Managers Tools Entity Navigation Functions Window Help

Entity Explorer

- SYN\_Sintex\_Production (SYN.000.000.000)
  - Sintex\_FP
    - 0010 - Mixing
      - SYN\_Machine Operator\_ROL
      - Furnace\_WC
      - DC\_SYN\_01 - SYN.000
      - DC\_SYN\_02 - SYN.000
      - POLYTHENE
      - UV Stabilizer
      - Flame retardent
      - 1 - Mixing and Heating Producti
    - 0020 - Moulding
      - SYN\_Machine Operator\_ROL
      - Extrusion\_WC
      - DC\_SYN\_MOL\_03 - SYN.000
      - Colorent
      - 1 - Moulding and Extrusion Con

Entity Manager   Project Manager   SYN\_Sintex\_Pr...N.000.000.000

SYN\_Sintex\_Production (SYN.000.000.000)

Design of Operation Navigation flow is available after pressing Edit Operation Navigation button. To confirm changes to Operation Navigation, use Exit Edit Mode button.   Edit Operation Navigation

CP duration: 1.5

Start → Mixing (0010: Melting and Mixing, Duration: 0.50) → Good → Moulding (0020: Shaping and Extrusion, Duration: 1.00)

Properties

General   Work Instruction   Advanced

Visibility

☒ Always   ☐ Never   ☐ Dynamic

Display Mode

☒ Sidebar   ☐ Pop-up   ☐ Maximized

Docking

☒ Left   ☐ Top   ☐ Right   ☐ Bottom

Size

px

Source

☒ Linked   ☐ Dynamic List

List of Work Instructions

Sequenc	Work Instruction	Revision	Type	Displa
1	WI_SYN_Moul...	SYN.000	Single	Always

Connected to TRN23H1APR3RT as ADMIN   Sign off on release not required   Design Mode is enabled   Editable   Prototype   100%

- Within mixing operation properties WBS code is set in advanced tab → additional properties.

Self-Paced Portal Lobby Lab Desktop Support Eknath Mohite (1065835400)

DELMIA Apriso Process Builder - [TRN23H1APR3RT] - SYN\_Sintex\_Production - SYN.000.000.000

File Edit View Managers Tools Entity Navigation Functions Window Help

Entity Explorer

- SYN\_Sintex\_Production (SYN.000.000.000)
  - Sintex\_FP
    - 0010 - Mixing
      - SYN\_Machine Operator\_ROL
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      - POLYTHENE
      - UV Stabilizer
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      - 1 - Mixing and Heating Producti
    - 0020 - Moulding
      - SYN\_Machine Operator\_ROL
      - Extrusion\_WC
      - DC\_SYN\_MOL\_03 - SYN.000
      - Colorent
      - 1 - Moulding and Extrusion Con

Entity Manager Project Manager SYN\_Sintex\_Pr...N.000.000.000

SYN\_Sintex\_Production (SYN.000.000.000) 0010 - Mixing Validate Test Run

Operation Additional Properties

Main Labor Output Tasking

WBS Code  
0010

ECN (use of Change Management functionality recommended instead)  
▼

Progress status  
▼

☐ Milestone  
☐ Value Add  
☐ Pay Point  
☐ Outside Process

OK Cancel Help

Properties

General Work Instruction Advanced

Create task for each  
Serials, Lots and Products

Additional Properties

Task Permissions

Invoke Operations

Name	Revision
------	----------

Add Remove

Connected to TRN23H1APR3RT as ADMIN Sign off on release not required Design Mode is enabled Editable Prototype 100%



- Within moulding operation properties WBS code is set in advanced tab  
→ additional properties.

Self-Paced Portal Lobby Lab Desktop Support Eknath Mohite (1065835400)

DELMIA Apriso Process Builder - [TRN23H1APR3RT] - SYN\_Sintex\_Production - SYN.000.000.000

File Edit View Managers Tools Entity Navigation Functions Window Help

Entity Explorer

- SYN\_Sintex\_Production (SYN.000.000.000)
  - Sintex\_FP
    - 0010 - Mixing
      - SYN\_Machine Operator\_ROL
      - Furnace\_WC
      - DC\_SYN\_01 - SYN.000
      - DC\_SYN\_02 - SYN.000
      - POLYTHENE
      - UV Stabilizer
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      - 1 - Mixing and Heating Producti
    - 0020 - Moulding
      - SYN\_Machine Operator\_ROL
      - Extrusion\_WC
      - DC\_SYN\_MOL\_03 - SYN.000
      - Colorent
      - 1 - Moulding and Extrusion Con

Entity Manager Project Manager SYN\_Sintex\_Pr...N.000.000.000

0010 - Mixing

1.Mixing and

Operation Additional Properties

Main Labor Output Tasking

WBS Code  
0020

ECN (use of Change Management functionality recommended instead)  
▼

Progress status  
▼

☐ Milestone  
☐ Value Add  
☐ Pay Point  
☐ Outside Process

OK Cancel Help

Properties

General Work Instruction Advanced

Create task for each  
Serials, Lots and Products

Additional Properties

Task Permissions

Invoke Operations

Name	Revision
------	----------

Add Remove

Connected to TRN23H1APR3RT as ADMIN Sign off on release not required Design Mode is enabled Editable Prototype 100%

- Within mixing operation properties for labor standard run hours is set in advanced tab  
→ additional properties.

Self-Paced Portal Lobby Lab Desktop Support Eknath Mohite (1065835400)

DELMIA Apriso Process Builder - [TRN23H1APR3RT] - SYN\_Sintex\_Production - SYN.000.000.000

File Edit View Managers Tools Entity Navigation Functions Window Help

Entity Explorer

- SYN\_Sintex\_Production (SYN.000.000.000)
  - Sintex\_FP
    - 0010 - Mixing
      - SYN\_Machine Operator\_ROL
      - Furnace\_WC
      - DC\_SYN\_01 - SYN.000
      - DC\_SYN\_02 - SYN.000
      - POLYTHENE
      - UV Stabilizer
      - Flame retardent
      - 1 - Mixing and Heating Producti
    - 0020 - Moulding
      - SYN\_Machine Operator\_ROL
      - Extrusion\_WC
      - DC\_SYN\_MOL\_03 - SYN.000
      - Colorent
      - 1 - Moulding and Extrusion Con

Entity Manager Project Manager SYN\_Sintex\_Pr...N.000.000.000

SYN\_Sintex\_Production (SYN.000.000.000) 0010 - Mixing Validate Test Run

Operation Additional Properties

Main Labor Output Tasking

Standard run hours 0.500000000000 Standard move hours

Standard queue hours Standard setup hours

Max. labor resources 255 Max. simultaneous tasks 255

Labor prorate type Occupation

OK Cancel Help

Properties

General Work Instruction Advanced

Create task for each

Serials, Lots and Products

Additional Properties

Task Permissions

Invoke Operations

Name	Revision
------	----------

Add Remove

Connected to TRN23H1APR3RT as ADMIN Sign off on release not required Design Mode is enabled Editable Prototype 100%

- Within moulding operation properties for labor standard run hours is set in advanced tab → additional properties.

Self-Paced Portal Lobby Lab Desktop Support Eknath Mohite (1065835400)

DELMIA Apriso Process Builder - [TRN23H1APR3RT] - SYN\_Sintex\_Production - SYN.000.000.000

File Edit View Managers Tools Entity Navigation Functions Window Help

Entity Explorer: SYN\_Sintex\_Production (SYN.000.000.000) > Sintex\_FP > 0010 - Mixing > SYN\_Machine Operator\_ROL > Furnace\_WC > DC\_SYN\_01 - SYN.000 > DC\_SYN\_02 - SYN.000 > POLYTHENE > UV Stabilizer > Flame retardant > 1 - Mixing and Heating Producti > 0020 - Moulding > SYN\_Machine Operator\_ROL > Extrusion\_WC > DC\_SYN\_MDL\_03 - SYN.000 > Colorent > 1 - Moulding and Extrusion Con

Entity Manager: SYN\_Sintex\_Production (SYN.000.000.000) > 0010 - Mixing

Operation Additional Properties

Main Labor Output Tasking

Standard run hours: 1.0000000000 Standard move hours

Standard queue hours Standard setup hours

Max. labor resources: 255 Max. simultaneous tasks: 255

Labor prorate type Occupation

OK Cancel Help

Properties: General Work Instruction Advanced

Create task for each

Serials, Lots and Products

Additional Properties

Task Permissions

Invoke Operations

Name Revision

Add Remove

Connected to TRN23H1APR3RT as ADMIN Sign off on release not required Design Mode is enabled Editable Prototype 100%

- For an order to be executed XML file is necessary. An order is made by XML file where starting from order number and production line to the work centers are mentioned along with quantity.

Self-Paced Portal Lobby Lab Desktop Support Eknath Mohite (1065835400)

C:\Users\Administrator\Desktop\SYN\_PRD01.xml - Notepad++ [Administrator]

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

SYN\_PRD01.xml

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!--Sample XML file generated by XMLSpy v2018 rel. 2 (http://www.altova.com)-->
3 <FlexNet_Production_PlantMaintenance_Orders xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" Version="2.0" xsi:noNamespaceSchemaLocation="FlexNet_Production_I
4   <WipOrder NodeType="Table" NodeAction="InsertOnly" DALAssemblyName="FlexNet.DataServices.Wip, Version=23.0.0.0, Culture=neutral, PublicKeyToken=33f69232784212
5     <WipOrderNo SetToNullOnUpdate="false">PRD001</WipOrderNo>
6     <WipOrderType SetToNullOnUpdate="false">1</WipOrderType>
7     <OrderQuantity SetToNullOnUpdate="false">100</OrderQuantity>
8     <ReleaseDate SetToNullOnUpdate="false">2024-01-10T08:00:00Z</ReleaseDate>
9     <UomCode>EA</UomCode>
10    <WorkOrderStatus>1</WorkOrderStatus>
11    <ProductionLineNo SetToNullOnUpdate="false">PL_Sintex</ProductionLineNo>
12    <ReleasedFacility>C1P1</ReleasedFacility>
13    <ProgressStatus>1</ProgressStatus>
14    <TargetQuantity SetToNullOnUpdate="false">100</TargetQuantity>
15    <ProductID ProductNo="Sintex_FP"/>
16    <LotNo NodeType="Table" NodeAction="InsertUpdate" DALAssemblyName="FlexNet.DataServices.Lot, Version=23.0.0.0, Culture=neutral, PublicKeyToken=33f69232784212
17      <LotNo SetToNullOnUpdate="false">SintexLot001</LotNo>
18      <Facility SetToNullOnUpdate="false">C1P1</Facility>
19      <ProductID NodeAction="GetValue" NodeType="Field" DALAssemblyName="FlexNet.DataServices.Product, Version=23.0.0.0, Culture=neutral, PublicKeyToken=33f69232784212
20    </LotNo>
21    <WipOrderLot NodeType="Table" NodeAction="InsertUpdate" DALAssemblyName="FlexNet.DataServices.Wip, Version=23.0.0.0, Culture=neutral, PublicKeyToken=33f69232784212
22      <WipOrderNo SetToNullOnUpdate="false">PRD001</WipOrderNo>
23      <WipOrderType SetToNullOnUpdate="false">1</WipOrderType>
24      <LotNo SetToNullOnUpdate="false">SintexLot001</LotNo>
25      <PrimaryLotNo SetToNullOnUpdate="false">true</PrimaryLotNo>
26      <OrderQuantity SetToNullOnUpdate="false">100</OrderQuantity>
27      <Active SetToNullOnUpdate="false">true</Active>
28      <ProductID NodeAction="GetValue" NodeType="Field" DALAssemblyName="FlexNet.DataServices.Product, Version=23.0.0.0, Culture=neutral, PublicKeyToken=33f69232784212
29    </WipOrderLot>
30    <JEJobCreationEvent>
31      <JobQueue>
32        <Name>PRD001</Name>

```

eXtensible Markup Language file length : 3,414 lines : 40 Ln : 5 Col : 53 Sel : 6 | 1 Unix (LF) UTF-8 INS



- After creating XML file it is exploded in Apriso and within if everything goes well then within Apriso Desktop Client → Job Executor : Immediate Jobs History the order will appear with result as SUCCESS.

Self-Paced Portal

Lobby

Lab

Desktop

Support

Ekmath Mohite (1065835400)

DELMIA Apriso Desktop Client [TRN23H1APR3RT] [System Administrator]

Job Executor: Immediate Jobs History

JE Immediate Jobs History

Options

ID	Job ID	Name	Description	Created Date	Pool	Synchronization	Action Type	Timeout	Started On	Finished On	Result	Info	Original
10359391	10356373	SYN_PRD01.xml	FlexNet_Produc	01/09/2024 08:	DEFAULT		8 - XML - Proce	00:05:00	01/09/2024 08:	01/09/2024 08:	1 - Success	FlexNet.System	0

You are at row 1 of 1. All rows loaded.

- After the explosion within Apriso Desktop Client → Execution Order the order will appear.

Self-Paced Portal
Lobby
Lab
Desktop
Support
Eknath Mohite (1065835400)

DELIA Apriso Desktop Client [TRN23H1APR3RT] [System Administrator]
Job Executor: Immediate Jobs History
Execution Order

WIP Order No	WIP Order Type	Product No	Product Descript	Order Quantity	Completed Qua	Priority	Expected Start	Release Date	Scheduled Start	Due Date	Actual Start Dat	Actual Completi	UOM
1610	1 - Production	ICRVG0063	ICRVG0063	1.0000000000		1	04/04/2023	04/04/2023	04/04/2023	04/06/2023	04/04/2023		EA - Ea
1611	1 - Production	ICBLSK001	Blisk	10.0000000000		1	04/04/2023	04/04/2023	04/04/2023	04/06/2023	04/04/2023		EA - Ea
1613	1 - Production	ICBLSK001	Blisk	10.0000000000		1	04/04/2023	04/04/2023	04/04/2023	04/06/2023	04/04/2023		EA - Ea
1614	1 - Production	ICBLSK001	Blisk	10.0000000000		1	04/04/2023	04/04/2023	04/04/2023	04/06/2023	04/04/2023		EA - Ea
1615	27 - Reactive M			1.0000000000		1	04/04/2023	04/04/2023	04/04/2023	04/05/2023	04/04/2023		EA - Ea
PRD001	1 - Production	Sintex_FP	Final Product	100.0000000000				01/10/2024			01/10/2024		EA - Ea

You are at row 6 of 6. All rows loaded.