



"Innovative end-to-end management of Dynamic Manufacturing Networks"

Deliverable D3.3.2

IMAGINE Integrated Platform R1

Workpackage: 3 – Design, Development and System Integration

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Executive Summary

IMAGINE Platform Release 1 is a prototype of the final IMAGINE Platform developed in accordance with Section 3, "Production – Oriented Flow", of Deliverable D2.2.2 v1.0, "IMAGINE Platform Architecture V.1". The "Use Cases of the IMAGINE Platform" D2.2.1 were also considered for the prototype. The relation of the Production – Oriented Flow Phases and Steps is depicted in Deliverable D2.2.2.

This document accompanies D3.3.2 v1.0 "IMAGINE Platform Release 1" and aims to:

- Describe the functionality of the IMAGINE Platform Release 1.
- Link the presented functionality of IMAGINE Platform Release 1 with Deliverable D2.2.2 v1.0

This document is based on IMAGINE Platform Release 1, the consortium will continue and update the IMAGINE Platform regularly to reflect the latest findings and developments of the IMAGINE Project.

Based on the car door manufacturing scenario of Section 3 in Deliverable D2.2.2 v1 and the IMAGINE Use Cases of D2.2.1 the following Production-Oriented Flow Use Cases have been recorded in this document:

1. Client selects e-Marketplace Sector
2. Client selects DMN Manager
3. Clients submits request to DMN Manager
4. Client monitors request
5. DMN Manager receives request
6. DMN Manager inputs required resources
7. DMN Manager inputs preliminary schedule
8. DMN Manager long lists potential Partners
9. DMN Manager short lists potential Partners
10. DMN Manager performs Final Configuration of DMN
11. DMN Manager creates detailed Product Schedule
12. DMN Manager inputs Orchestration and Choreographies
13. DMN Manager validates, simulates and deploys DMN
14. DMN Manager views deployed DMNs
15. DMN Manager Monitors specific DMN
16. DMN Manager Monitors specific DMN Process

Table of Contents

IMAGINE Project Profile	2
Document History	3
Executive Summary	4
Table of Contents.....	5
List of Figures	7
List of Tables.....	8
1 Introduction	9
1.1 Purpose and Scope.....	9
1.2 Imagine Platform Release 1	9
1.3 Production – Oriented Flow	10
1.4 Approach for Work Package and Relation to other Work Packages and Deliverables	10
1.5 Structure of the Document	11
2 Production-Oriented Flow Use Cases	12
2.1 Introduction.....	12
2.2 Summary / Overview	12
2.3 Use Cases Description.....	14
2.3.1 Client Selects e-Marketplace Sector	14
2.3.2 Client Selects DMN Manager	15
2.3.3 Clients submits request to DMN Manager	16
2.3.4 Client monitors request	17
2.3.5 DMN Manager receives request.....	18
2.3.6 DMN Manager inputs required resources	19
2.3.7 DMN Manager inputs preliminary schedule	21
2.3.8 DMN Manager Long Lists potential Partners.....	23
2.3.9 DMN Manager Short Lists potential Partners	25
2.3.10 DMN Manager performs Final Configuration of DMN.....	26
2.3.11 DMN Manager Creates detailed Production Schedule	29
2.3.12 DMN Manager inputs Orchestration and Choreographies	30
2.3.13 DMN Manager Validates, Simulates and Deploys Network.....	31
2.3.14 DMN Manager Views Deployed DMNs.....	32
2.3.15 DMN Manager Monitors Specific DMN.....	33

2.3.16	DMN Manager Monitors Specific Process.....	34
3	Conclusions and Next Steps	36
3.1	Conclusions and Next Steps.....	36

List of Figures

Figure 1-1. Screenshot from iMAGINE Platform Release showing the link between Production Flow Phases, Steps and Use Case Titles.	9
Figure 1-2. High Level view of a car door manufacturing process	10
Figure 2-1. Client Selects e-Marketplace Sector Screenshot.....	14
Figure 2-2. Client Selects DMN Manager Screenshot.....	15
Figure 2-3. Client submits request to DMN Manager Screenshot.....	16
Figure 2-4. Client Monitors request Screenshot.	17
Figure 2-5. DMN Manager Receives request Screenshot.	18
Figure 2-6. DMN Manager inputs requested resources Screenshot.....	19
Figure 2-7. DMN Manager inputs preliminary schedule Screenshot.	21
Figure 2-8. DMN Manager Long Lists Potential Partners Screenshot.	23
Figure 2-9. DMN Manager Short Lists Potential Partners Screenshot.	25
Figure 2-10. DMN Manager Performs Final Configuration of DMN Screenshot.....	26
Figure 2-11. Simulation based Evaluation	27
Figure 2-12. DMN Manager Creates Detailed Production Schedule Screenshot.	29
Figure 2-13. DMN Manager inputs Orchestration and Choreographies Screenshot.	30
Figure 2-14. DMN Manager Validates, Simulates and Deploys Network Screenshot.....	31
Figure 2-15. DMN Manager Views Deployed DMNS Screenshot.	32
Figure 2-16. DMN Manager Monitors Specific DMN Screenshot.....	33
Figure 2-17. DMN Manager Monitors Specific Process Screenshot.	34

List of Tables

Table 2-1. Production-Oriented Flow Use Cases Summary	13
Table 2-2. Client Selects e-Marketplace Sector	14
Table 2-3. Client Selects DMN Manager	15
Table 2-4. Clients submits request to DMN Manager.....	16
Table 2-5. Client monitors request	17
Table 2-6. DMN Manager receives request.....	18
Table 2-7. DMN Manager inputs required resources	20
Table 2-8. DMN Manager inputs preliminary schedule	22
Table 2-9. DMN Manager long-lists potential Partners	24
Table 2-10. DMN Manager Short Lists potential Partners	25
Table 2-11. DMN Manager performs Final Configuration of DMN	28
Table 2-12. DMN Manager Creates detailed Production Schedule	29
Table 2-13. DMN Manager inputs Orchestration and Choreographies.....	31
Table 2-14. DMN Manager Validates, Simulates and Deploys Network	32
Table 2-15. DMN Manager Views Deployed DMNs	32
Table 2-16. DMN Manager Monitors Specific DMN	34
Table 2-17. DMN Manager Monitors Specific Process	35

1 Introduction

1.1 Purpose and Scope

This document accompanies the IMAGINE Platform Release 1 and its main objectives are to describe the demonstrated functionality of IMAGINE Platform Release 1 as well as to link the functionalities presented with the "Production-Oriented Flow" of the IMAGINE Platform Architecture V.1 (Section 3 of Deliverable D2.2.2 v1.0).

1.2 Imagine Platform Release 1

Imagine Platform Release 1 is a prototype version of IMAGINE Platform. The design of IMAGINE Platform Release 1 follows the "Production – Oriented Flow" of IMAGINE Platform Architecture V1.0 (Section 3 of Deliverable D2.2.2 v1.0). IMAGINE Platform Release 1 is coupled to the Architecture with direct references to the Phases and Steps of the "Production-Oriented Flow".

Figure 1-1 shows a screenshot from the IMAGINE Platform Release 1, the depicted component highlights the Use Case that is related with the functionality that is currently displayed in the browser. This component also directly links the displayed functionality with the Production-Oriented Flow of the IMAGINE Platform Architecture V1.0. The production- oriented flow is divided in separate phases and each phase is divided in consecutive steps. Each of the phases corresponds to one of the DMN Lifecycle phases mentioned in Deliverables D1.1.2., D2.2.1 and D2.2.2. The numbers of each phases in the rows of the table correspond to the number of the phases as appear in the D2.2.2 v1. In the same way the numbers of the steps that are assigned to each Use Case correspond to the step numbering inside each phase according to D2.2.2 v1. The names given to the Use Cases indicate the consecutive actions that have to be followed.

Use Case Name	Production Flow Phase	Production Flow Step
Client Selects eMarketPlace Sector	1	1
Client Selects DMN Manager	1	1
Clients Submits Order to DMN Manager	1	1
Client monitors order	1	1

Figure 1-1. Screenshot from IMAGINE Platform Release showing the link between Production Flow Phases, Steps and Use Case Titles.

The main purpose of Imagine Platform Release 1 is to visually demonstrate the initial design and allow the consortium to evaluate it. The evaluation process provides feedback to the Architects, Designers and Developers that allows for a more consolidated design and development of the future versions.

At this stage key phases and steps have been implemented as prototypes that describe the flow of events in the IMAGINE Platform. Imagine Platform Release 1 also integrates a first version of the Simulation and Evaluation building block which, as mentioned in D2.2.2 v1 section VII-C, evaluates

the different possible DMN configurations giving the DMN Manager consolidated information that would allow him to choose the appropriate configuration.

1.3 Production – Oriented Flow

The Production - Oriented Flow scenario considers the DMN lifecycle phases involved in the production flow of car door manufacturing. An assumption is made that a DMN Manager receives a request for car door manufacturing from an OEM. The manufacturing is then performed by interweaving five main car door-manufacturing processes. A detailed description of the Production-Oriented Flow can be found in Section 3 of Deliverable D2.2.2 v1.0. Figure 1-2 , is a high level view of the car door manufacturing process as presented in the Production – Oriented Flow.

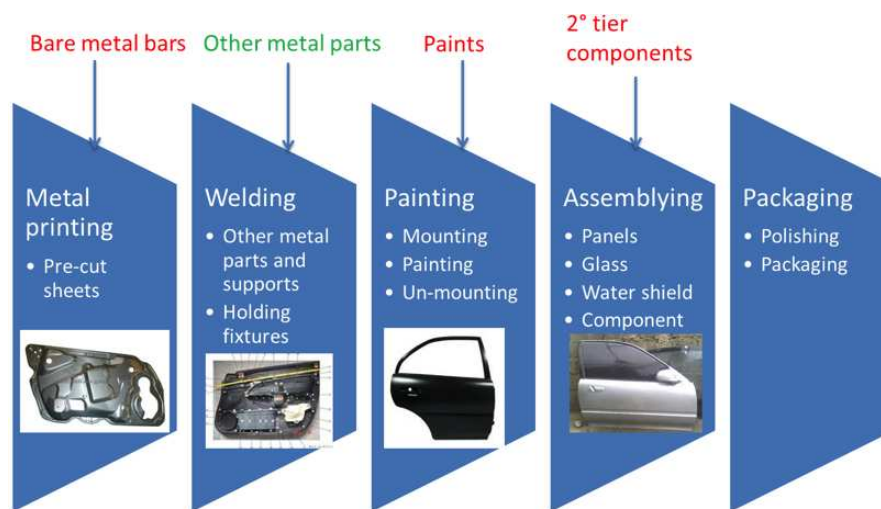


Figure 1-2. High Level view of a car door manufacturing process

1.4 Approach for Work Package and Relation to other Work Packages and Deliverables

This document accompanies the deliverable D3.3.2 v1 which is the IMAGINE Platform Release 1. It aims to indicate the provided functionality that the IMAGINE Platform Release 1 demonstrates and link it with the Production – Oriented Flow of the IMAGINE Platform Architecture v1.0.

In this context this document directly relates the work of WP2 with the work of WP3.

More specifically Deliverable D2.2.2 v1.0 "IMAGINE Platform Architecture" and Deliverable D3.3.2 v1.0 "IMAGINE Platform Release 1" are tightly coupled by this document.

1.5 Structure of the Document

In relation to the aforementioned, the deliverable follows a structure pertaining to the identified main sub-objectives. Section 2.2 presents a Production – Oriented Flow Use Cases summary, linking the various Production – Oriented Flow Use Cases with the appropriate Phases and Steps of the Production-Oriented Flow. In Section 2.3 short descriptions of the various Use Cases briefly familiarize a reader that is aware of the iMAGINE Platform Architecture v1.0 with the demonstrated functionalities of the iMAGINE Platform Release 1.

2 Production-Oriented Flow Use Cases

2.1 Introduction

This Section presents the Production – Oriented Flow Use Cases that capture the demonstrated functionality of the IMAGINE Platform Release 1 and link its functionality with the Production – Oriented Flow scenario of the IMAGINE Platform Architecture v1.0. The “Use Cases of the IMAGINE Platform”, D2.2.1 have been also considered for both this the prototype and the IMAGINE Platform Architecture v1.0. The relation of the Production – Oriented Flow Phases and Steps is depicted clearly in Deliverable D2.2.2 where every Step of the flow is associated with the appropriate Use Cases of D2.2.1.

Section **Error! Reference source not found.** presents a summary of the Production-Oriented Flow Use Cases that are later described in Section 2.3.

2.2 Summary / Overview

The IMAGINE Platform Release 1 focuses on the following phases of the Production – Oriented Flow:

- Phase 1: DMN Configuration
- Phase 2: DMN Design
- Phase 3: DMN Execution, Monitoring and Management

For each of these phases some specific “Production-Oriented Flow Use Cases” have been identified. These “Use Cases” pinpoint what the users would have to perform to be able to follow the Production-Oriented Flow scenario. A detailed list of these Production-Oriented Flow Use Cases can be found in Table 2-1. These “Use Cases” stemming from the “Production-Oriented Flow” describe briefly the key actions that have been developed in the IMAGINE Platform Release 1 and their aim is to familiarize the users with the presented functionality. In addition the “Use Cases of the IMAGINE Platform”, D2.2.1 have been also considered. The relation of the Production – Oriented Flow Phases and Steps is shown in Deliverable D2.2.2 where every Step of the flow is associated with the appropriate Use Cases of D2.2.1.

Every Production – Oriented Flow Use Case is directly linked to the appropriate phase and step of the Production – Oriented Flow Section of the IMAGINE Platform Architecture v1.0 allowing the users to place each functionality in the context of the scenario described in detail there. Each Production-Oriented Flow Use Case is also given a title that briefly describes its content.

In IMAGINE Platform R1 it is assumed that Clients, potential DMN Managers and Suppliers have already registered and are connected in the IMAGINE Platform, have supplied all the required information in the form of Blueprints and are ESB-Compatible, being able to exchange information via the IMAGINE Service Bus. The IMAGINE Platform prototype focuses on the DMN Manager Actor,

showing also some key actions of the Client Actor. The actions of the Supplier Actors are implied but not directly demonstrated in the prototype IMAGINE Platform.

Table 2-1. Production-Oriented Flow Use Cases Summary

Title	Related Production- Oriented Flow Phase	Related Production- Oriented Flow Step	ID
Client Selects e-Marketplace Sector	1	Step-1	PF1
Client Selects DMN Manager	1	Step-1	PF2
Clients Submits request to DMN Manager	1	Step-1	PF3
Client monitors request	1	Step-1	PF4
DMN Manager receives request	1	Step-2	PF5
DMN Manager inputs required resources	1	Step-2	PF6
DMN Manager inputs preliminary schedule.	1	Step-2	PF7
DMN Manager Long Lists potential Partners	1	Step-3	PF8
DMN Manager Short Lists potential Partners	1	Step-3	PF9
DMN Manager performs Final Configuration of DMN	1	Step-3	PF10
DMN Manager Creates detailed Product Schedule	2	Step-1	PF11
DMN Manager inputs Orchestration and Choreographies	2	Steps-2,3	PF12
DMN Manager Validates, Simulates and Deploys Network	2	Step-3	PF13
DMN Manager Views Deployed DMNs	3	Step-1	PF14
DMN Manager Monitors Specific DMN	3	Step-1	PF15
DMN Manager Monitors Specific Process	3	Step-1	PF16

2.3 Use Cases Description

2.3.1 Client Selects e-Marketplace Sector

Use Case Name	Production Flow Phase	Production Flow Step
Client Selects eMarketPlace Sector	1	1
Client Selects DMN Manager	1	1
Clients submits request to DMN Manager	1	1
Client monitors request	1	1

Market Sector NACE Code

☐ A - Agriculture, forestry and fishing
☐ B - Mining and quarrying
☒ C - Manufacturing
☐ D - Electricity, gas, steam and air conditioning supply
☐ E - Water supply; sewerage; waste management and remediation activities
☐ F - Construction
☐ G - Wholesale and retail trade; repair of motor vehicles and motorcycles
☐ H - Transporting and storage
☐ I - Accommodation and food service activities
☐ J - Information and communication
☐ K - Financial and insurance activities
☐ L - Real estate activities
☐ M - Professional, scientific and technical activities
☐ N - Administrative and support service activities
☐ O - Public administration and defence; compulsory social security
☐ P - Education
☐ Q - Human health and social work activities
☐ R - Arts, entertainment and recreation
☐ S - Other services activities
☐ T - Activities of households as employers; undifferentiated goods - and services - producing activities of households for own use
☐ U - Activities of extraterritorial organisations and bodies

OK

Figure 2-1. Client Selects e-Marketplace Sector Screenshot.

Table 2-2. Client Selects e-Marketplace Sector

ID	PF1
Title	Client Selects e-Marketplace Sector
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/eMarketPlace/eMarketPlaceHome.jsp
Description	Client enters the e-Marketplace and chooses one of the available Market Sectors. (IMAGINE Platform Release 1 only provides a stab Car Manufacturing Market Place.)
Phase	1
Step	1

2.3.2 Client Selects DMN Manager

Use Case Name	Production Flow Phase	Production Flow Step
Client Selects eMarketPlace Sector	1	1
Client Selects DMN Manager	1	1
Clients submits request to DMN Manager	1	1
Client monitors request	1	1

Select DMN Manager

Name	Products
Motor Craft Car Engine	
<u>Door</u>	Car Door
Auto toss	Car Wheel
Manu Car	Car Seats
Chassis	Car Chassis

Figure 2-2. Client Selects DMN Manager Screenshot.

Table 2-3. Client Selects DMN Manager

ID	PF2
Title	Client Selects DMN Manager
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/eMarketPlace/selectDMNManager.jsp
Description	<p>The e-Marketplace for car manufacturing sector allows the Client to choose a DMN Manager that is experienced in manufacturing Car Doors.</p> <p>(IMAGINE Platform Release 1 only provides a template for a car door request placement.)</p>
Phase	1
Step	1

2.3.3 Clients submits request to DMN Manager

Use Case Name	Production Flow Phase	Production Flow Step
Client Selects eMarketPlace Sector	1	1
Client Selects DMN Manager	1	1
Clients submits request to DMN Manager	1	1
Client monitors request	1	1

Technical Specifications

Comment...

Quantity

Units:

Delivery

Time From: To:
Date From: To:
Select Country:
City/District/State:
Address:

Budget

From: To: Total Cost ☒ Range
Maximum price: Total Cost ☐ Maximum

Figure 2-3. Client submits request to DMN Manager Screenshot

Table 2-4. Clients submits request to DMN Manager

ID	PF3
Title	Clients submits request to DMN Manager
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/configuration/CustomerRequestOrder.jsp
Description	<ol style="list-style-type: none"> The Client uploads the specifications of the desired product in one or more files using a one of the available file formats and optionally including comments. The Client defines: <ul style="list-style-type: none"> Delivery date Quantity and Units Delivery address Budget (Price range or maximum price) The Client submits the request.
Phase	1
Step	1

2.3.4 Client monitors request

Use Case Name	Production Flow Phase	Production Flow Step
Client Selects eMarketPlace Sector	1	1
Client Selects DMN Manager	1	1
Clients Submits Order to DMN Manager	1	1
Client monitors order	1	1

Order ID: 0045

Status

DMN Configuration pending.

Description

[CarDoorSpecs.cad](#) Type:

Quantity

1000

Delivery

Time From: 08:00 To: 16:00
Date From: 01/12/2012 To: 15/02/2013
Address: Palermo, Italy

Budget

From: 2000 To: 2200

Figure 2-4. Client Monitors request Screenshot.

Table 2-5. Client monitors request

ID	PF4
Title	Client monitors request
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/monitor/ClientOrder.jsp
Description	<p>After request submission the Client will be able to monitor the process of his request by using the Request ID.</p> <p>(IMAGINE Platform Release 1 shows a single snapshot of a prototype request monitoring screen.)</p>
Phase	1
Step	1

2.3.5 DMN Manager receives request

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager receives order	1	2
DMN Manager inputs required resources	1	2
DMN Manager inputs preliminary schedule	1	2
DMN Manager Long Lists potential Partners	1	3
DMN Manager Short Lists potential Partners	1	3
DMN Manager performs Final Configuration of DMN	1	3
DMN Manager Creates detailed Production Schedule	2	1
DMN Manager Orchestration Choreographies	2	2,3
DMN Manager Validates Simulates and Deploys Network	2	3

New Orders

Order Id	Client	Date Submitted
0045	Automotive Industry	Tue Sep 25 15:05:28 EEST 2012

Figure 2-5. DMN Manager Receives request Screenshot.

Table 2-6. DMN Manager receives request

ID	PF5
Title	DMN Manager receives request
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/DMNManagerConsole/DMNreceivedOrders.jsp
Description	<ul style="list-style-type: none"> The DMN Manager is notified about the new request. The new request is visible in the "New requests menu".
Phase	1
Step	2

2.3.6 DMN Manager inputs required resources

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager receives order	1	2
DMN Manager inputs required resources	1	2
DMN Manager inputs preliminary schedule	1	2
DMN Manager Long Lists potential Partners	1	3
DMN Manager Short Lists potential Partners	1	3
DMN Manager performs Final Configuration of DMN	1	3
DMN Manager Creates detailed Production Schedule	2	1
DMN Manager Orchestration Choreographies	2	2,3
DMN Manager Validates Simulates and Deploys Network	2	3

Order Details

Description: [CarDoorSpecs.cad](#) Type:

Quantity

1000

Delivery

Time From: 08:00 To: 16:00
Date From: 01/12/2012 To: 15/02/2013
Address: Palermo, Italy

Budget

From: 2000 To: 2200

Production Resources

Required Materials and Parts

Name	Select
Pre-cut Sheets	<input checked="" type="checkbox"/>
Door Panels	<input checked="" type="checkbox"/>
Glass	<input checked="" type="checkbox"/>
Water Shield	<input checked="" type="checkbox"/>
Component	<input checked="" type="checkbox"/>

Required Processes

Name	Select
Metal Printing	<input checked="" type="checkbox"/>
Welding	<input checked="" type="checkbox"/>
Painting	<input checked="" type="checkbox"/>
Assembling	<input checked="" type="checkbox"/>
Packaging	<input checked="" type="checkbox"/>

Figure 2-6. DMN Manager inputs requested resources Screenshot.

Table 2-7. DMN Manager inputs required resources

ID	PF6
Title	DMN Manager inputs required resources
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/configuration/OrderDMNconfiguration.jsp
Description	<p>The DMN Manager consults Production Planner and Production Engineers in order to create a High Level Work Plan and Associated Schedule.</p> <p>Initially the required parts, materials and processes are identified and selected.</p> <p>We assume in that stage that the required resources (Parts, Materials and Processes) that appear selected in this screen have been specified by a Product Blueprint containing the BOM or have been selected by appropriate menus in the platform. The Product Blueprint containing the BOM could have been provided via file upload or by connection to another system such as an ERP through the IMAGINE ESB via an appropriate adapter.</p> <p>It is also assumed that the DMN Manager validates and confirms the order; in general the DMN Manager could also reject a Client request.</p>
Phase	1
Step	2

2.3.7 DMN Manager inputs preliminary schedule

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager receives order	1	2
DMN Manager inputs required resources	1	2
DMN Manager inputs preliminary schedule	1	2
DMN Manager Long Lists potential Partners	1	3
DMN Manager Short Lists potential Partners	1	3
DMN Manager performs Final Configuration of DMN	1	3
DMN Manager Creates detailed Production Schedule	2	1
DMN Manager Orchestration Choreographies	2	2,3
DMN Manager Validates Simulates and Deploys Network	2	3

Request Details

Description: [CarDoorSpecs.cad](#) Type:

Quantity

1000

Delivery

Time From: 08:00 To: 16:00

Date From: 01/12/2012 To: 15/02/2013

Address: Palermo, Italy

Budget

From:2000 To: 2200

Production Resources

Required Materials and Parts

Name	Quantity	Units	Process Used In	Max Delivery Date
Pre-cut Sheets	2000	<input type="text" value="Units of Product"/>	Metal Printing	01.01.2013
Door Panels	1000	<input type="text" value="Units of Product"/>	Assembling	01.01.2013
Glass	1000	<input type="text" value="Units of Product"/>	Assembling	01.01.2013
Water Shield	1000	<input type="text" value="Units of Product"/>	Assembling	01.01.2013
Component	1000	<input type="text" value="Units of Product"/>	Assembling	01.01.2013

Required Processes

Name	Capacity	Units	Sequence	Max Delivery Date	Average Process Time per Unit
Metal Printing	45	<input type="text" value="Units of Product"/>	1	01.01.2013	45
Welding	21	<input type="text" value="Units of Product"/>	2	01.01.2013	45
Painting	14	<input type="text" value="Units of Product"/>	3	01.01.2013	45
Assembling	44	<input type="text" value="Units of Product"/>	4	01.01.2013	45
Packaging	33	<input type="text" value="Units of Product"/>	5	01.01.2013	45

Figure 2-7. DMN Manager inputs preliminary schedule Screenshot.

Table 2-8. DMN Manager inputs preliminary schedule

ID	PF7
Title	DMN Manager inputs preliminary schedule
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/configuration/OrderDMNconfigurationProcesses.jsp
Description	<p>The DMN Manager:</p> <ul style="list-style-type: none"> • Provides estimation regarding the required quantities as well as measurement units of Parts and Materials • Specifies the processes that Parts and Materials are Used in and Max Delivery Date • Provides estimation regarding the required Capacity and Units for the processes • Selects appropriate measurement units • Indicates the process execution order (sequence). • Specifies the processes in which parts and materials are used • Defines maximum delivery dates
Phase	1
Step	2

2.3.8 DMN Manager Long Lists potential Partners

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager receives order	1	2
DMN Manager inputs required resources	1	2
DMN Manager inputs preliminary schedule	1	2
DMN Manager Long Lists potential Partners	1	3
DMN Manager Short Lists potential Partners	1	3
DMN Manager performs Final Configuration of DMN	1	3
DMN Manager Creates detailed Production Schedule	2	1
DMN Manager Orchestration Choreographies	2	2,3
DMN Manager Validates Simulates and Deploys Network	2	3

Order Details

Description: [CarDoorSpecs.cad](#) Type:

Quantity

1000

Delivery

Time From: 08:00 To: 16:00
Date From: 01/12/2012 To: 15/02/2013
Address: Palermo, Italy

Budget

From: 2000 To: 2200

Production Resources

```

graph LR
    A[Metal Printing] --> B[Welding]
    B --> C[Painting]
    C --> D[Assembling]
    D --> E[Packaging]
  
```

Required Materials and Parts

Name	Quantity	Units	Process	Used In Partner Search
Pre-cut Sheets	2000	Units	Metal Printing	Long List
Door Panels	1000	Units	Assembling	Long List
Glass	1000	Units	Assembling	Long List
Water Shield	1000	Units	Assembling	Long List
Component	1000	Units	Assembling	Long List

Required Processes

Name	Capacity	Units	Order	Partner Search
Metal Printing	45	Units	1	Long List
Welding	21	Units	2	Long List
Painting	14	Units	3	Long List
Assembling	44	Units	4	Long List
Packaging	33	Units	5	Long List

Figure 2-8. DMN Manager Long Lists Potential Partners Screenshot.

Table 2-9. DMN Manager long-lists potential Partners

ID	PF8
Title	DMN Manager long-lists potential Partners
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/configuration/OrderDMNconfigurationLongList.jsp
Description	<ul style="list-style-type: none"> • DMN Manager long-lists potential Suppliers for each process, part and selected material. • For each process, part or material appropriate suppliers are identified automatically by matching the required resources with the Partner Blueprints that is provided by Suppliers. • Long list is based on available information for partners such: Industry Sector, Number of employees, Annual Turnover, Supported Standards, Available Processes or Manufacturing Equipment and the Geographical region, Process Skills, Core manufacturing processes, Average Price per Unit, Customer References, Awards, and Patents. • DMN Manager can select the criteria that will be used. • Imagine platform recommends some Suppliers to be selected based on appropriate algorithms.
Phase	1
Step	3

2.3.9 DMN Manager Short Lists potential Partners

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager receives order	1	2
DMN Manager inputs required resources	1	2
DMN Manager inputs preliminary schedule	1	2
DMN Manager Long Lists potential Partners	1	3
DMN Manager Short Lists potential Partners	1	3
DMN Manager performs Final Configuration of DMN	1	3
DMN Manager Creates detailed Production Schedule	2	1
DMN Manager Orchestration Choreographies	2	2,3
DMN Manager Validates Simulates and Deploys Network	2	3

Order Details

Description: Type:

Quantity

1000

Delivery

Time From: 08:00 To: 16:00
Date From: 01/12/2012 To: 15/02/2013
Address: Palermo, Italy

Budget

From: 2000 To: 2200

Production Resources

```

graph LR
    A[Metal Printing] --> B[Welding]
    B --> C[Painting]
    C --> D[Assembling]
    D --> E[Packaging]
  
```

Required Materials and Parts

Name	Quantity	Units	Process	Used In Partner Search
Pre-cut Sheets	2000	Units	Metal Printing	Short List
Door Panels	1000	Units	Assemblying	Short List
Glass	1000	Units	Assemblying	Short List
Water Shield	1000	Units	Assemblying	Short List
Component	1000	Units	Assemblying	Short List

Required Processes

Name	Capacity	Units	Order	Partner Search
Metal Printing	45	Units	1	Short List
Welding	21	Units	2	Short List
Painting	14	Units	3	Short List
Assemblying	44	Units	4	Short List
Packaging	33	Units	5	Short List

Figure 2-9. DMN Manager Short Lists Potential Partners Screenshot.

Table 2-10. DMN Manager Short Lists potential Partners

ID	PF9
Title	DMN Manager Short Lists potential Partners
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/design/OrderPartnerSelect.js?type=Product&name=Pre-cut%20Sheets
Description	<p>DMN Manager Short List potential suppliers for each process, part and material based on restricted information criteria.</p> <ul style="list-style-type: none"> • Max Capacity • Price range • Quality • Average Lead Time • Expected Delivery Date • Expected Manufacturing Time • Available Stock <p>IMAGINE Platform provides recommendations based on appropriate algorithms and DMN Manager makes the final decision.</p>
Phase	1
Step	3

2.3.10 DMN Manager performs Final Configuration of DMN

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager receives order	1	2
DMN Manager inputs required resources	1	2
DMN Manager inputs preliminary schedule	1	2
DMN Manager Long Lists potential Partners	1	3
DMN Manager Short Lists potential Partners	1	3
DMN Manager performs Final Configuration of DMN	1	3
DMN Manager Creates detailed Production Schedule	2	1
DMN Manager Orchestration Choreographies	2	2,3
DMN Manager Validates Simulates and Deploys Network	2	3

Order Details

Description: [CarDoorSpecs.cad](#) Type:

Quantity

1000


Delivery

Time From: 08:00 To: 16:00
Date From: 01/12/2012 To: 15/02/2013
Address: Palermo, Italy

Budget

From: 2000 To: 2200

Production Resources



Required Materials and Parts

Name	Quantity	Units	Process Used In Partner Search
Pre-cut Sheets	2000	Units	Metal Printing Select Partners
Door Panels	1000	Units	Assembling Select Partners
Glass	1000	Units	Assembling Select Partners
Water Shield	1000	Units	Assembling Select Partners
Component	1000	Units	Assembling Select Partners

Required Processes

Name	Capacity	Units	Order Partner Search
Metal Printing	45	Units	1 Select Partners
Welding	21	Units	2 Select Partners
Painting	14	Units	3 Select Partners
Assembling	44	Units	4 Select Partners
Packaging	33	Units	5 Select Partners

Figure 2-10. DMN Manager Performs Final Configuration of DMN Screenshot.

Processes											
Process	Supplier Name	Min Lead Time	Max Lead Time	Mean Lead Time	Variable Cost	Fixed Cost					
Metal Printing	Super Metal Printing	7.0	12.0	10.0	10.0	2.0					
Metal Printing	Good Metal Printing	8.0	13.0	10.0	7.0	5.0					
Welding	Super Welding	10.0	14.0	12.0	6.0	1.0					
Welding	Good Welding	9.0	12.0	11.0	4.0	3.0					
Painting	Super Painting	12.0	14.0	13.0	15.0	2.0					
Painting	Good Painting	10.0	16.0	15.0	14.0	2.0					
Assembling	Super Assembling	17.0	25.0	20.0	10.0	7.0					
Assembling	Good Assembling	15.0	30.0	22.0	13.0	7.0					
Packaging	Super Packaging	8.0	19.0	15.0	10.0	9.0					
Packaging	Good Packaging	9.0	21.0	14.0	11.0	5.0					
Metal Printing	Welding	Painting	Assembling	Packaging	Min Lead Time	Mean Lead Time	Max Lead Time	Min Cost	Mean Cost	Max Cost	
Super Metal Printing	Super Welding	Super Painting	Super Assembling	Super Packaging	54.0	70.0	84.0	581.0	738.0	84.0	
Super Metal Printing	Super Welding	Super Painting	Super Assembling	Good Packaging	55.0	69.0	86.0	596.0	738.0	86.0	
Super Metal Printing	Super Welding	Super Painting	Good Assembling	Super Packaging	52.0	72.0	89.0	606.0	824.0	89.0	
Super Metal Printing	Super Welding	Super Painting	Good Assembling	Good Packaging	53.0	71.0	91.0	621.0	824.0	91.0	
Super Metal Printing	Super Welding	Good Painting	Super Assembling	Super Packaging	52.0	72.0	86.0	541.0	753.0	86.0	
Super Metal Printing	Super Welding	Good Painting	Super Assembling	Good Packaging	53.0	71.0	88.0	556.0	753.0	88.0	
Super Metal Printing	Super Welding	Good Painting	Good Assembling	Super Packaging	50.0	74.0	91.0	566.0	839.0	91.0	
Super Metal Printing	Super Welding	Good Painting	Good Assembling	Good Packaging	51.0	73.0	93.0	581.0	839.0	93.0	
Super Metal Printing	Good Welding	Super Painting	Super Assembling	Super Packaging	53.0	69.0	82.0	559.0	712.0	82.0	
Super Metal Printing	Good Welding	Super Painting	Super Assembling	Good Packaging	54.0	68.0	84.0	574.0	712.0	84.0	
Super Metal Printing	Good Welding	Super Painting	Good Assembling	Super Packaging	51.0	71.0	87.0	584.0	798.0	87.0	
Super Metal Printing	Good Welding	Super Painting	Good Assembling	Good Packaging	52.0	70.0	89.0	599.0	798.0	89.0	
Super Metal Printing	Good Welding	Good Painting	Super Assembling	Super Packaging	51.0	71.0	84.0	519.0	727.0	84.0	
Super Metal Printing	Good Welding	Good Painting	Super Assembling	Good Packaging	52.0	70.0	86.0	534.0	727.0	86.0	
Super Metal Printing	Good Welding	Good Painting	Good Assembling	Super Packaging	49.0	73.0	89.0	544.0	813.0	89.0	
Super Metal Printing	Good Welding	Good Painting	Good Assembling	Good Packaging	50.0	72.0	91.0	559.0	813.0	91.0	
Good Metal Printing	Super Welding	Super Painting	Super Assembling	Super Packaging	55.0	70.0	85.0	570.0	711.0	85.0	
Good Metal Printing	Super Welding	Super Painting	Super Assembling	Good Packaging	56.0	69.0	87.0	585.0	711.0	87.0	
Good Metal Printing	Super Welding	Super Painting	Good Assembling	Super Packaging	53.0	72.0	90.0	595.0	797.0	90.0	
Good Metal Printing	Super Welding	Super Painting	Good Assembling	Good Packaging	54.0	71.0	92.0	610.0	797.0	92.0	
Good Metal Printing	Super Welding	Good Painting	Super Assembling	Super Packaging	53.0	72.0	87.0	530.0	726.0	87.0	
Good Metal Printing	Super Welding	Good Painting	Super Assembling	Good Packaging	54.0	71.0	89.0	545.0	726.0	89.0	
Good Metal Printing	Super Welding	Good Painting	Good Assembling	Super Packaging	51.0	74.0	92.0	555.0	812.0	92.0	
Good Metal Printing	Super Welding	Good Painting	Good Assembling	Good Packaging	52.0	73.0	94.0	570.0	812.0	94.0	
Good Metal Printing	Good Welding	Super Painting	Super Assembling	Super Packaging	54.0	69.0	83.0	548.0	685.0	83.0	
Good Metal Printing	Good Welding	Super Painting	Super Assembling	Good Packaging	55.0	68.0	85.0	563.0	685.0	85.0	
Good Metal Printing	Good Welding	Super Painting	Good Assembling	Super Packaging	52.0	71.0	88.0	573.0	771.0	88.0	
Good Metal Printing	Good Welding	Super Painting	Good Assembling	Good Packaging	53.0	70.0	90.0	588.0	771.0	90.0	
Good Metal Printing	Good Welding	Good Painting	Super Assembling	Super Packaging	52.0	71.0	85.0	508.0	700.0	85.0	
Good Metal Printing	Good Welding	Good Painting	Super Assembling	Good Packaging	53.0	70.0	87.0	523.0	700.0	87.0	
Good Metal Printing	Good Welding	Good Painting	Good Assembling	Super Packaging	50.0	73.0	90.0	533.0	786.0	90.0	
Good Metal Printing	Good Welding	Good Painting	Good Assembling	Good Packaging	51.0	72.0	92.0	548.0	786.0	92.0	
Metal Printing	Welding	Painting	Assembling	Packaging	Min Lead Time	Mean Lead Time	Max Lead Time	Min Cost	Mean Cost	Max Cost	Evaluation
Good Metal Printing	Good Welding	Super Painting	Super Assembling	Super Packaging	54.0	69.0	83.0	548.0	685.0	83.0	Minimum Mean Cost
Super Metal Printing	Good Welding	Super Painting	Super Assembling	Good Packaging	54.0	68.0	84.0	574.0	712.0	84.0	Minimum Mean Duration
Evaluate Available Partners											

Figure 2-11. Simulation based Evaluation

Table 2-11. DMN Manager performs Final Configuration of DMN

ID	PF10
Title	DMN Manager performs Final Configuration of DMN
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/configuration/OrderDMNconfigurationSelectPartners.jsp
Description	<ul style="list-style-type: none"> DMN Manager finally chooses the suppliers for materials, parts and processes based on confidential real time data from suppliers regarding their expected capacity in specified dates. (In IMAGINE Platform Release 1 values are stored internally and not retrieved from external systems.) IMAGINE Platform may simulate and evaluate the available Suppliers providing more sophisticated recommendations. The simulation and evaluation functionality has been implemented and IMAGINE Platform Release 1 allows the editing of the existing values and getting different results. In the current version the Minimum Lead Time, Maximum Lead Time, Fixed and Variable Costs are taken into account by the "DMN Simulation and Evaluation building block". We assume that the required information is provided by all Suppliers via the IMAGINE ESB and Partner Blueprints. The IMAGINE Platform R1 utilizes the "DMN Simulation and Evaluation building block" to calculate and simulate the available configurations and provide recommendations. In this version of the platform the DMN configuration with the minimum Mean Lead Time and the DMN configuration with the minimum Mean Total Cost are identified. The "DMN Simulation and Evaluation building block" is described in D2.2.2 v1 section VII-C.
Phase	1
Step	3

2.3.11 DMN Manager Creates detailed Production Schedule

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager receives order	1	2
DMN Manager inputs required resources	1	2
DMN Manager inputs preliminary schedule	1	2
DMN Manager Long Lists potential Partners	1	3
DMN Manager Short Lists potential Partners	1	3
DMN Manager performs Final Configuration of DMN	1	3
DMN Manager Creates detailed Production Schedule	2	1
DMN Manager Orchestration Choreographies	2	2,3
DMN Manager Validates Simulates and Deploys Network	2	3

Detailed Production Plan

Description: Type:

Quantity

1000

Delivery

Time From: 08:00 To: 16:00
Date From: 01/12/2012 To: 15/02/2013
Address: Palermo, Italy

Budget

From:2000 To: 2200

Production Plan

```

graph LR
    A[Metal Printing] --> B[Welding]
    B --> C[Painting]
    C --> D[Assembling]
    D --> E[Packaging]
  
```

Required Materials and Parts

Name	Quantity	Units	Process Used In	Delivery Dates	Supplier
Pre-cut Sheets	2000	Units	Metal Printing	1/10/2012	Pre-cut Sheets
Door Panels	1000	Units	Assembling	1/10/2012	Good Door Panels
Glass	1000	Units	Assembling	1/10/2012	Good Glass
Water Shield	1000	Units	Assembling	1/10/2012	Best Water Shields
Component	1000	Units	Assembling	1/10/2012	Components Inc

Required Processes

Order	Name	Capacity	Units	Scheduled Start	Scheduled End	Supplier
1	Metal Printing	45	Units	1/3/2012	1/5/2012	Good Metal Printing
2	Welding	21	Units	1/5/2012	1/7/2012	Good Welding
3	Painting	14	Units	1/7/2012	1/10/2012	Good Painting
4	Assembling	44	Units	1/10/2012	1/1/2012	Good Assembling
5	Packaging	33	Units	1/01/2013	1/02/2013	Good Packaging

Figure 2-12. DMN Manager Creates Detailed Production Schedule Screenshot.

Table 2-12. DMN Manager Creates detailed Production Schedule

ID	PF11
Title	DMN Manager Creates detailed Production Schedule
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/design/OrderDMNEndToEndDesign.jsp
Description	DMN Manager completes the detailed production schedule by providing the exact dates for Materials, Parts and Processes.
Phase	2
Step	1

2.3.12 DMN Manager inputs Orchestration and Choreographies

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager receives order	1	2
DMN Manager inputs required resources	1	2
DMN Manager inputs preliminary schedule	1	2
DMN Manager Long Lists potential Partners	1	3
DMN Manager Short Lists potential Partners	1	3
DMN Manager performs Final Configuration of DMN	1	3
DMN Manager Creates detailed Production Schedule	2	1
DMN Manager Orchestration Choreographies	2	2,3
DMN Manager Validates Simulates and Deploys Network	2	3

Detailed Production Plan

Description: [CarDoorSpecs.cad](#) Type: [CAD File](#)

Quantity

1000 units

Delivery

Time From: 08:00 To: 16:00
Date From: 01/12/2012 To: 15/02/2013
Address: Palermo, Italy

Budget

From: 2000 To: 2200 [Per unit cost](#)

Production Plan

```

graph LR
    A[Metal Printing] --> B[Welding]
    B --> C[Painting]
    C --> D[Assembling]
    D --> E[Packaging]
  
```

Required Materials and Parts

Name	Quantity	Units	Process	Used In	Delivery Dates	Supplier	Send To	Products Specs	Products Specs
Pre-cut Sheets	2000	Units	Metal Printing		1/10/2012	Pre-cut Sheets	Good Assembling		Αναζήτηση...
Door Panels	1000	Units	Assembling		1/10/2012	Good Door Panels	Good Assembling		Αναζήτηση...
Glass	1000	Units	Assembling		1/10/2012	Good Glass	Good Assembling		Αναζήτηση...
Water Shield	1000	Units	Assembling		1/10/2012	Best Water Shields	Good Assembling		Αναζήτηση...
Component	1000	Units	Assembling		1/10/2012	Components Inc	Good Assembling		Αναζήτηση...

Required Processes

Order	Name	Capacity	Units	Scheduled Start	Scheduled End	Supplier	Send To	Receive From	Process Details
1	Metal Printing	45	Units	1/3/2012	1/5/2012	Good Metal Printing	Good Welding	None	Αναζήτηση...
2	Welding	21	Units	1/5/2012	1/7/2012	Good Welding	Good Painting	Good Welding	Αναζήτηση...
3	Painting	14	Units	1/7/2012	1/10/2012	Good Painting	Good Assembling	Good Painting	Αναζήτηση...
4	Assembling	44	Units	1/10/2012	1/1/2012	Good Assembling	Good Packaging	Good Assembling	Αναζήτηση...
5	Packaging	33	Units	1/01/2013	1/02/2013	Good Packaging	Client	Good Packaging	Αναζήτηση...

[Simulate / Validate](#)

Figure 2-13. DMN Manager inputs Orchestration and Choreographies Screenshot.

Table 2-13. DMN Manager inputs Orchestration and Choreographies

ID	PF12
Title	DMN Manager inputs Orchestration and Choreographies
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/design/OrderDMNChoreographyOrchestration.jsp
Description	DMN Manager specifies the interaction of different Suppliers and uploads detailed instructions to each one. (In IMAGINE Platform Release 1 we assume that all the detailed instructions can be included in a file of appropriate format. That could be a zip file containing multiple files or a process-specific file with appropriate format.)
Phase	2
Step	2, 3

2.3.13 DMN Manager Validates, Simulates and Deploys Network

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager receives order	1	2
DMN Manager inputs required resources	1	2
DMN Manager inputs preliminary schedule	1	2
DMN Manager Long Lists potential Partners	1	3
DMN Manager Short Lists potential Partners	1	3
DMN Manager performs Final Configuration of DMN	1	3
DMN Manager Creates detailed Production Schedule	2	1
DMN Manager Orchestration Choreographies	2	2,3
DMN Manager Validates Simulates and Deploys Network	2	3

Detailed Production Plan

Description: [CarDoorSpecs.cad](#) Type: CAD File

Quantity

1000 units

Delivery

Time From: 08:00 To: 16:00
Date From: 01/12/2012 To: 15/02/2013
Address: Palermo, Italy

Budget

From: 2000 To: 2200 Per unit cost

Production Plan

```

graph LR
    A[Metal Printing] --> B[Welding]
    B --> C[Painting]
    C --> D[Assembling]
    D --> E[Packaging]
  
```

Required Materials and Parts

Name	Quantity	Units	Process Used In	Delivery Dates	Supplier	Send To	Products Specs	Validation
Pre-cut Sheets	2000	Units	Metal Printing	1/10/2012	Pre-cut Sheets	Good Assembling	SheetSpecs.file	OK
Door Panels	1000	Units	Assembling	1/10/2012	Good Door Panels	Good Assembling	DoorPanelsSpecs.file	OK
Glass	1000	Units	Assembling	1/10/2012	Good Glass	Good Assembling	GlassSpecsFiles.file	OK
Water Shield	1000	Units	Assembling	1/10/2012	Best Water Shields	Good Assembling	WaterShieldsSpecs.file	OK
Component	1000	Units	Assembling	1/10/2012	Components Inc	Good Assembling	ComponentSpecs.file	OK

Required Processes

Order	Name	Capacity	Units	Scheduled Start	Scheduled End	Supplier	Send To	Receive From	Process Details	Validation
1	Metal Printing	45	Units	1/3/2012	1/5/2012	Good Metal Printing	Good Welding	None	PrintingSpecs.file	OK
2	Welding	21	Units	1/5/2012	1/7/2012	Good Welding	Good Painting	Good Welding	WeldingSpecs.file	OK
3	Painting	14	Units	1/7/2012	1/10/2012	Good Painting	Good Assembling	Good Painting	PaintingSpecs.file	OK
4	Assembling	44	Units	1/10/2012	1/1/2012	Good Assembling	Good Packaging	Good Assembling	AssemblingSpecs.file	OK
5	Packaging	33	Units	1/01/2013	1/02/2013	Good Packaging	Client	Good Packaging	PackagingSpecs.file	OK

Simulation Scenario: Realistic (1-2 days delays)

Re-Validate

DMN name: MyDMN

Deploy

Figure 2-14. DMN Manager Validates, Simulates and Deploys Network Screenshot.

Table 2-14. DMN Manager Validates, Simulates and Deploys Network

ID	PF13
Title	DMN Manager Validates, Simulates and Deploys Network
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/design/OrderDMNSimulateValidate.jsp
Description	<ul style="list-style-type: none"> DMN Manager may validate the overall network against different simulated scenarios. DMN Manager may select various simulation scenarios depending on his expectations for the DMN. The IMAGINE Platform then simulates the overall network configuration and provides an indication regarding the ability of each partner to work effectively in the selected scenario. In this version, the IMAGINE Platform will indicate that all partners are able to perform effectively in all possible scenarios. DMN Manager provides a name to be able to identify the network and deploys the DMN.
Phase	2
Step	3

2.3.14 DMN Manager Views Deployed DMNs

Use Case Name	Production Flow Phase	Production Flow Step
DMN Manager Views Deployed DMNs	3	1
DMN Manager Monitors Specific DMN	3	1
DMN Manager Monitors Specific Process	3	1

Deployed DMNs		
Name	Status	Progress
My DMN	OK	0%
LE DMN	OK	0%
ASAP Syndication	OK	90%
Steel Metal Frame	OK	50%
Custom Chairs	Delayed	30%

Figure 2-15. DMN Manager Views Deployed DMNS Screenshot.
Table 2-15. DMN Manager Views Deployed DMNs

ID	PF14
Title	DMN Manager Views Deployed DMNs
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/monitor/DeployedDMNList.jsp
Description	DMN Manager may see the deployed DMNs that he manages.
Phase	3
Step	1

2.3.15 DMN Manager Monitors Specific DMN



Figure 2-16. DMN Manager Monitors Specific DMN Screenshot.

Table 2-16.DMN Manager Monitors Specific DMN

ID	PF15
Title	DMN Manager Monitors Specific DMN
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/monitor/OrderDMNDeployed.jsp?name=My%20DMN
Description	<p>By clicking a DMN the DMN Manager may see detailed information about the DMN network as a whole.</p> <p>(In IMAGINE Platform Release 1 "My DMN" network is the network that the DMN Manager creates in the other use cases, and it is the one with the most information.)</p>
Phase	3
Step	1

2.3.16 DMN Manager Monitors Specific Process

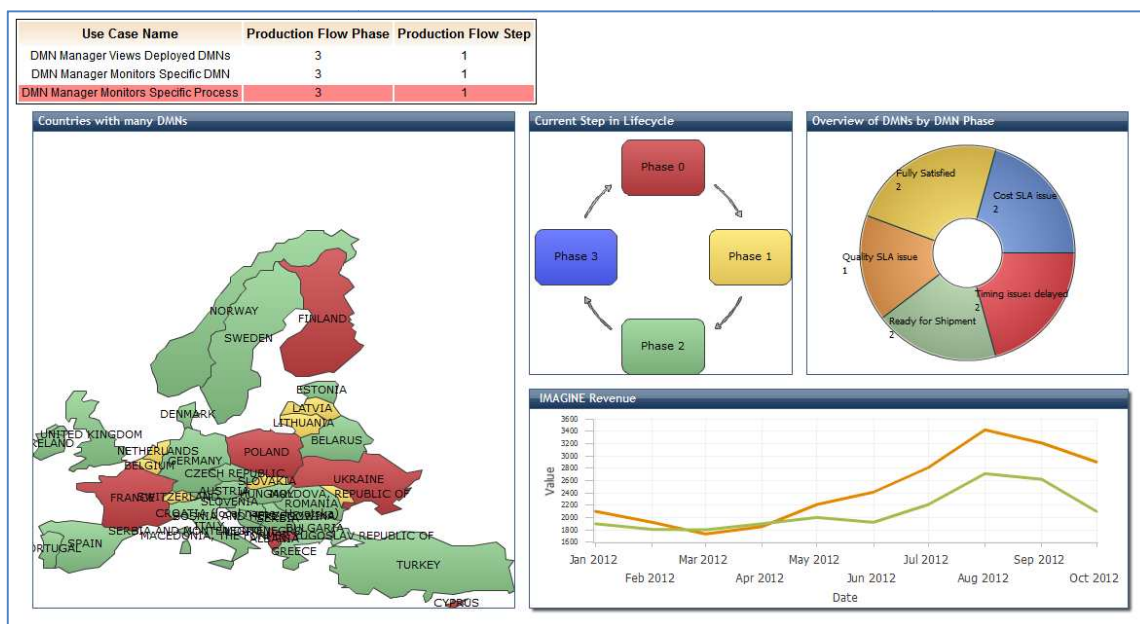

Figure 2-17. DMN Manager Monitors Specific Process Screenshot.

Table 2-17. DMN Manager Monitors Specific Process

ID	PF16
Title	DMN Manager Monitors Specific Process
Page	http://syrios.mech.upatras.gr:7080/IMAGINE%20R1/pages/monitor/monitoring.jsp
Description	DMN Manager can click on a specific process status to see a detailed dashboard with in depth information.
Phase	3
Step	1

3 Conclusions and Next Steps

3.1 Conclusions and Next Steps

The main aims of Deliverable D3.3.2 v1 were the following:

- To develop a prototype in order to allow evaluation by the Living Lab partners and serve as a starting point for discussions and further development of IMAGINE Platform.
- To merge the Use Cases of D2.2.1 and the Production-Oriented Flow section of D2.2.2 v1 into a unified context.
- To provide a first understanding on how the different steps and phases of the processes flow can be best visualized and illustrated.

It is expected that these aims have been addressed and the evaluation process has provided the consortium with useful feedback that will be taken into account by the Tasks that are responsible for the IMAGINE Platform Architecture, Design and Development. More specifically in Task 2.2 of WP2 which is responsible for the IMAGINE Platform Architecture the received comments will be incorporated within the next version of the IMAGINE Platform Architecture, while at the same time the Tasks of WP3 will utilize the gathered experience for designing, implementing and integrating a new consolidated version of the IMAGINE Platform.