

European Connected Factory Platform for Agile Manufacturing



WP2: Requirements Elicitation and Pilot Scenarios

D2.4: EFPF Platform Requirements

Vs: 1.0

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Short Abstract

The deliverable describes the requirements gathered and the methodology applied that went into the development of the EFPF Platform and its components.

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History

See Annexe A.

Status

This deliverable is subject to final acceptance by the European Commission.

Further Information

www.efpf.org

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Executive Summary

The EFPF consortium partners managed to deploy a working first version of the EFPF Platform in M9 of the project. The partners agreed to continue to use the agile approach as it was very successful. As the quite diverse development activities of implementing platform components, services and piloting applications grew, the chosen approach was not feasible anymore.

To remedy the overheads produced to carry the development activities with a single SCRUM process the consortium decided to follow a "SCRUM of SCRUMs" like approach where the work was divided into thematic working groups. They are self-managed and the working group leaders met regularly to discuss current issues and other relevant progress.

In that way the development activities continued and as the requirement tool for the development activities all those issues and requirements were handled in the Gitlab tool. Until the time of writing ~1400 issues were created of which ~1100 were closed.

The approach to use Gitlab issues also for managing administrative and non-development work, like setting up the support infrastructure for the open calls or refinements to the platform architecture, proved to be quite useful.

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0 Introduction

0.1 EFPF Project Overview

EFPF – European Connected Factory Platform for Agile Manufacturing – is a project funded by the H2020 Framework Programme of the European Commission under Grant Agreement 825075 and conducted from January 2019 until December 2022. It engages 30 partners (Users, Technology Providers, Consultants and Research Institutes) from 11 countries with a total budget of circa 16M€. Further information can be found at www.efpf.org.

To foster the growth of a pan-European platform ecosystem that enables the transition from "analogue-first" mass production, to "digital twins" and lot-size-one manufacturing, the EFPF project will design, build and operate a federated digital manufacturing platform. The platform will be bootstrapped by interlinking four base platforms from FoF-11-2016 cluster funded by the European Commission, early on. This will inform the design of the EFPF Data Spine and the associated toolsets to fully connect the existing user communities of the four base platforms. The federated EFPF platform will also be offered to new users through a unified Portal with value-added features such as single sign-on (SSO), user access management functionalities to hide the complexity of dealing with different platform and solution providers.

0.2 Deliverable Purpose and Scope

The purpose of this deliverable D2.4: EFPF Platform Requirements is ...

0.3 Target Audience

The deliverable is declared public and therefore its content can be used for raising the awareness of project among wider audience.

0.4 Deliverable Context

This document is one of the cornerstones for achieving the project aims. Its relationship to other documents is as follows:

- **Description of Action (DOA):** Provides the foundation for the actual research and technological content of EFPF. Importantly, the Description of Action includes a description of the overall project work plan.
- **Project Handbook (D1.1)**: Provides the foundation for the practical work in the project throughout its duration and helps to ensure that the project partners follow the same well-defined procedures and practices also in terms of information sharing.

0.5 Document Structure

This deliverable is broken down into the following sections:

• **Section 0** Introduction: An introduction to this deliverable, including a general overview of the project, an outline of the purpose, scope, context, status, and target audience of the deliverable at hand.

- **Section 1** EFPF Requirements Methodology: Describes the methodology and approach adopted within the EFPF Project.
- **Section 2** EFPF Platform Requirements: Presents the requirements gathered across working groups throughout the course of EFPF Project.
- **Section 3** Requirements Lists: Presents the EPIC's and User Stories collected throughout the course of the EFPF Project.
- Annexes:
 - Annex A: Document History

0.6 Document Status

This document is listed in the Description of Action as "public".

0.7 Document Dependencies

This document has no preceding documents or further iterations.

0.8 Glossary and Abbreviations

A definition of standard terms related to EFPF, as well as a list of abbreviations, is available at https://www.EFPF.org/glossary

0.9 External Annexes and Supporting Documents

Annexes and Supporting Documents:

• None

0.10 Reading Notes

• None

1 EFPF Requirements Methodology

1.1 Agile development approach

The aim in the EFPF project was right from the beginning to build a basic working platform to connect the base platforms to be integrated early in the project runtime.

Early in the project runtime we gathered the project vision in D2.1 (M3) and identified the major interoperation challenges in D2.2 (M5). As the initial platform was scheduled to be in place in month 9, the consortium decided to follow an agile development approach.

We started in the beginning to use a requirements tool called JIRA to streamline the process and followed the approach to create requirements and then label them as Epics and User Stories.

An Epic is a requirement that is so big that it cannot be implemented without splitting it up into several other requirements. A user story describes a functionality as well as a goal that a user wants to reach by executing the Story. The complete list of Epics can be found in chapter 3.1.EFPF Epics

In order to break down functionality required for EFPF platform coming from various sources such as requirements from Pilot applications as well as platform and service providers we created Stories that are much more manageable than Epics and to further break down them we created Sub-tasks for functionality that is being (re-)used in several Stories. In that way we reduced redundancy and efforts because common functionality was described in one place so that it was unlikely to create contradicting requirements. The complete list of Stories and Sub-tasks can be found in chapter 3.2.

Thereby we were able to gather requirements that provided both functionality but also could be grouped coherently to convey a message to the developers on what would be the final goal for the implementation. This coherence is often lost when requirements are collected and documented by just postulating functionality bits.

1.2 Requirements and platform development

As the consortium partners had decided to follow an agile approach in the development of the EFPF Platform and the Pilot Applications, a SCRUM based approach to specify the durations of Sprints, doing weekly standups was agreed on. After the Sprints were conducted a Review and then Planning meetings for the next Sprint took place.

What we found out is that the scope of the implementation of the many components, applications and services were too diverse so that we could not reap the benefits of an agile approach anymore e.g., the weekly standups took very long and large sections of those meetings were not relevant to the majority of the participants.

Another issue that came up was the fact that JIRA is a great tool for documenting requirements but since we did not have the paid extension to integrate with a source code repository tool Gitlab it turned out to be too cumbersome to manage issues for development in our Gitlab instance and trying to relate them to the existing Stories and Sub-tasks and keep everything in sync.

From those aspects the consortium partners involved in development activities decided to change our approach:

We identified the following working groups (WG) which were following an agile approach themselves:

- WG1 Data Spine
- WG2 Pub/Sub-Security
- WG3 Integration and Deployment Maintenance
- WG4 Portal
- WG5 Marketplace and Accountancy Service
- WG6 Matchmaking and Team Formation
- WG7 SDK and App Development
- WG8 Smart Factory and Pilot Applications
- WG9 Experimentation Support
- WG10 Blockchain
- WG11 (was closed and merged with WG8)
- WG12 WASP

This reduced the overheads substantially and by following such a Scrum-of-Scrum like approach the productivity increased a lot. We had then regular meetings of the WG leaders in order to update all about progress, blockers, and other issues. This turned out to be an approach that allowed to react flexibly to issues that inevitably come up and at the same time follow activities to reach the overall project goals.

2 **EFPF Platform Requirements**

2.1 Overview

As described in chapter 1.2 the methodology of the requirements work was changed in order to cater for the quite diverse needs from platform, component, and service development as well as administrative support for e.g., setting up the support structure for the Open Calls.

The links to access the Gitlab issues will be shared with the relevant persons from the commission and in this chapter, we will just provide an overview.

2.2 Requirements by WG's

The following table shows the number of requirements that the different components and services used – overall ~1400 issues were created and ~1100 were closed until the writing of this deliverable.

| Working Group | Description | Open | Closed | All |
|------------------|--|------|--------|-----|
| WG1 | EFPF Data Spine | 41 | 143 | 184 |
| WG1 & WG2 | EFPF Security Components | 9 | 74 | 83 |
| WG1 | EFPF Architecture | 14 | 23 | 37 |
| WG1 | System Security Model | 3 | 5 | 8 |
| WG1 | EFPF Platform Security and User Registration Service | 9 | 44 | 53 |
| WG1 | Data Model Interoperability Layer | 3 | 26 | 29 |
| WG3 | EFPF Documentation Portal | 0 | 27 | 27 |
| WG3 | Testing | 0 | 12 | 12 |
| WG3 | EFPF Integration and Deployment | 21 | 66 | 87 |
| WG3 | Monitoring Infrastructure | 1 | 7 | 8 |
| WG4 | Secure Data Store Solution | 26 | 12 | 38 |
| WG4 | Tendering and Bid Management Service | 5 | 14 | 19 |
| WG4 | Accountancy Service | 2 | 13 | 15 |
| WG5 | Product Catalog Service | 1 | 36 | 37 |
| WG5 | EFPF Marketplace Framework | 36 | 77 | 113 |
| WG6 | Matchmaking Services | 17 | 70 | 87 |
| WG7 | EFPF SDK environment | 5 | 10 | 15 |
| WG8 | Data Analytics ELN | 20 | 34 | 54 |
| WG8 | Real-time Anomaly Detection | 8 | 50 | 58 |

| WG8 | Factory Connectivity and Smart Factory Solutions | 20 | 82 | 102 |
|------|---|-----|------|------|
| WG8 | Efficient Resources Management Solutions | 1 | 14 | 15 |
| WG8 | Data Analytics | 7 | 39 | 46 |
| WG8 | Business and Network Intelligence Service | 12 | 51 | 63 |
| WG8 | Fill Level Sensors Design and Deployment | 1 | 13 | 14 |
| WG8 | Work Environment Monitoring | 3 | 22 | 25 |
| WG9 | EFPF Support | 0 | 13 | 13 |
| WG10 | Blockchain and Smart Contracting | 34 | 42 | 76 |
| WG12 | Workflow and Service Automation Platform (WASP) | 18 | 32 | 50 |
| | Total | 317 | 1051 | 1368 |

3 Requirements lists

3.1 EFPF Epics

Epics are requirements that are too large to be tackled at once but will be split into several smaller requirements.

| Key | Summary | Description | Labels | Priority | Epic Name |
|-----------|---|---|--|----------|---|
| EF- 52 | Online Bidding Process for Circular Economy Enabled by Automated Matchmaking | | ELDIA, Kleemann, agents, matchmakin g, MilOil, online- bidding | Critical | Epic 10 - Reduce the burden of finding relevant partners for lot- size-one tasks |
| EF- 57 | Search for Specialised Products/Services in order to Process Waste More Efficiently | | Kleemann | Critical | Epic 11 - Search for specialised products/servic es |
| EF- 51 | Enable the Integration of IT systems and Blockchain technology in the Supply Chain to Bring More Visibility and Real-time Support Across Distributed Activities While Keeping Regulatory and Compliance Procedures | The Epic is related to integration of IT Systems and Blockchain Technology to Circular Economy Scenario | Kleemann | Major | Epic 09 - Enable the integration of IT systems in the supply chain |
| EF- 84 | SMEs want to sell products or services (non-complex, built-to- print) by using B2B catalogues | | Aerospace, nimble | Major | Epic 01 - Sell products or services |

Overall, 18 Epics were identified.

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| EF- 89 | SME want to sell spare parts via of B2B | | Aerospace | Major | Epic 02 - Sell spare parts |
|------------|--|---|------------------------|-------|-------------------------------|
| | catalogues and using | | | | |
| | either smart or | | | | |
| | performance-based contracts for automated | | | | |
| | order processing, | | | | |
| | invoicing etc | | | | |
| EF- | Multiple SMEs want to | | Aerospace | Major | Epic 03 - |
| 91 | use scaling effects by | | | | Bundling of |
| | pooling their | | | | procurement needs |
| | procurement needs and joint orders of supply | | | | needs |
| | using B2B catalogues | | | | |
| | and digital platforms | | | | |
| EF- | EFPF Platform Security | A new EPIC for EFPF Platform Security and User Registration Service. | ASC, | Major | Epic 15 - EFPF |
| 294 | and User Registration | Dravieve Lleer Steries envered by this EDIC: | CERTH, EF- | | Platform |
| | Service | Previous User Stories covered by this EPIC: EF-A2: (General) | A2, HAW, ICE, SRFG, | | Security and User |
| | | As Sales / Purchasing / Marketing / Project / HR Manager I want to | VLC | | Registration |
| | | assign my company to an industry, so that I can find faster suppliers that | | | Service |
| | | match my needs. | | | |
| EF- | Epic 13 - Business & | A new EPIC for the Business and Network Intelligence Service | AID, EF-A5, | Major | Epic 13 - |
| 295 | Network Intelligence Service | Brovious Lloor Storios covered by this EDIC: | EF-A8, HAW, | | Business & Network |
| | Service | Previous User Stories covered by this EPIC: EF-A5: (EPIC: 1 + 2) | SRFG, VLC | | Intelligence |
| | | As a Sales Manager I need a "cockpit" that offers me KPIs and other | | | Service |
| | | important information and notification about my catalogue to be informed | | | |
| | | about my performance and the correctness of information. | | | |
| | | EF-A8: (EPIC: General) | | | |
| | | As Marketing Manager, I aim to receive information about upcoming | | | |
| | | trends at the earliest possible, so that I can develop and design products, | | | |
| | | and bring them as quick as possible on the market. For SMEs this is | | | |
| | | extremely important, because they usually do not have separate market | | | |
| EF- | Workflow and Service | analysis departments. | | Majar | |
| EF- 302 | Automation Platform | This EPIC covers the following two existing user stories. | | Major | Epic 14 - Workflow and |
| 502 | | EF-303 As a Project Manager, I want to generate and forward status | | | Service |
| L | 1 | | 1 | 1 | |

| EF-27: | EF- 305 | Matchmaking services | messages for orders, e.g., "Production started", "Production finished", "Loading completed", "Delivery completed" in order to get transparency about the processes in the supply chain. EF-19 Production Process monitoring. As a Sales, Production or Purchasing manager, I want to monitor the production process of goods I have requested so that I can detect problems during production and can keep a history for future reference. New EPIC with all consolidated matchmaking service user-stories including * Federated search for suppliers and products/services * Online bidding service This EPIC includes the following existing User Stories. EF-15: As a Sales manager or Production manager, I want to condense more information of my customers so that I can arrange more business relationships with them. Acceptance Criteria: * A repository of customer's information * Analytics of relationships established with these customers through the platform, such as negotiations, information requests, accepted and rejected tender bids, etc. EF-24: As a Purchasing manager, I want to manufacture and deliver just-in-time so that I can reduce storage costs. Acceptance Criteria: * Mechanisms to get a detailed and general vision of the delivery status of the different goods to be sent * Mechanisms to cancel a logistics provider and quickly replace it with another one | AIDIMME, C2K, CERTH, Lagrama, SRDC, SRFG, VLC, composition, matchmakin g, nimble | Major | Automation Platform |
|--------|------------|----------------------|---|--|-------|------------------------|
|--------|------------|----------------------|---|--|-------|------------------------|

| | |
|--|--|
| As a Purchasing manager, I want to search for particular products and services so that I can define a specific supply chain for the production of particular goods. | |
| Acceptance Criteria: * Search mechanisms available in the platform to get a collection of products and services according to criteria * Availability of text-based search and search by exploring the different categories of products and services available in the platform * Mechanisms to filter the retrieved collection of products by specific properties (i.e.: price, color, etc.) | |
| EF-28: As a Purchasing manager, I want to send requests for quotation of customised product so that I can evaluate the adequacy of the parties to be involved in the supply chain. | |
| Acceptance criteria: * Mechanisms to send a request for quotation (RFQ) to other members of the platform indicating the particular product or service, quantity and particular considerations through the platform * Reception of response of the RFQ indicating the quotation and particular considerations from the supplier party * Grouping capabilities in order to have a clear and maintainable tracking of the RFQ processes carried out through the platform | |
| EF-30: As a Purchasing manager, I want to find logistics providers when delivering to a country for the first time so that I can provide an adequate delivery time at an adjusted cost. | |
| Acceptance Criteria: * Capability to search for logistics services in retrieve results according to indicated parameters (i.e.: origin, destination, delivery time, etc.) * The management of nonconformities is not covered in this user story so it has been previously covered | |

| | 1 | | I | - |
|--|---|--|---|---|
| | | EF-54: As a Purchasing manager or Purchasing specialist, I want to negotiate prices and contracts so that I can obtain high-quality services/products at reasonable prices. Acceptance criteria: * An automated online bidding mechanism that provides suggestions of best available supplier for a service and enables the automation of negotiation procedures in a close loop | | |
| | | EF-61: As a Purchasing manager, I want to negotiate prices and contracts with suppliers, so that I can buy specialised products at the best price. Acceptance criteria: * A repository of suppliers * A history of relationships established with these suppliers through the platform, such as negotiations, information requests, etc. * An evaluation of each company based on historical platform data (ranking) * Price and payment terms | | |
| | | EF-88: As staff working for the purchasing, engineering or project management department, I aim to find partners for a variety of specific products and services, so that my company has the full overall view of available suppliers on the market without the need of huge research efforts, to be able to work with the best products (price/leadtime/quality) and suppliers (reliability/communication/quality). Acceptance Criteria: * Ability to search for suitable products and services on an adhoc-basis based on a rating system taking into account parameters like delivery reliability/quality and several other ones. Outcome: Supplier having the correct expertise, experience, required quality standards, certificates, and the capacity for successful collaboration | | |

| | | * Ability to get contact details or the possibility to send invitations to potential suppliers | | | |
|------------|--|--|-------------------------|-------|--|
| | | EF-262: Registration of new company for online bidding process | | | |
| | | EF-286: As a future supplier, I want to be able to add and update my company details and my products/services to the e-factory marketplace, so that potential customers can search for them easily, leading to a better visibility of our company to the marketplace. | | | |
| | | Acceptance Criteria: * Ability to add company information * Ability to update company information * Ability to add products and services in the form of a catalogue. * Ability to update products and services in the form of a catalogue | | | |
| EF- 306 | The activities to be carried out regarding product & catalog management | This EPIC includes the following existing epics: EF-29: As a Sales manager, I want to exchange catalogues of products and services with other members of the platform so that I can detect opportunities to improve the configuration of the supply chain. | HAW, SRDC, nimble | Major | Epic 17 - Product Catalogue Service |
| | | EF-85: As staff working for the sales or marketing department, I aim to place our products and services in a catalogue, so that potential customers (predefined user group like A/C OEM, Airlines, MRO, 1st-tier suppliers) can search for them easily, which leads to a better visibility of our capabilities to the respective customer groups. | | | |
| | | EF-86: As a Marketing Manager, I want to define catalogues for the products and services of my company so that those products / services can be | | | |

| offered to selected customers (companies). | |
|--|--|
| onered to selected customers (companies). | |
| EF-87: As a Sales Manager, I want to create the B2B catalogue for specific customers and specify the sales conditions (prices, delivery terms and conditions, etc.) so that items (products / services) in the catalogue are offered to selected customers (companies) with those specified sales conditions (prices, etc.) negotiated in (smart) contract templates. | |
| EF-90: As staff working for the sales or marketing department, I aim to place relevant spare parts in a catalogue, so that potential customers (predefined user group like A/C OEM, Airlines, MRO, 1st tier suppliers) can search for them easily to find the relevant supplier. | |
| EF-A1: As a Sales / Purchasing / Marketing / Project / HR Manager I should be able to switch the language from English to others to find products/services faster | |
| EF-A3: As a Sales / Purchasing / Marketing / Project / HR Manager I want the listed information about a product to be available to use several criteria while searching products. | |
| EF-A4: As a Purchasing Manager I need an indicator that tells me whether a product or service can be customized in order to know whether this product or service is relevant for me. | |
| EF-A6: | |

| Г | | | As a Cales / Durchase Manager, Lucaded like to have our part in the | | | 1 |
|---|-----|----------------------|--|-------------|-------|----------------|
| | | | As a Sales / Purchase Manager, I would like to have support in the | | | |
| | | | creation of contracts, e.g., through suitable templates, in order to quickly | | | |
| ļ | | | conclude a contract. | | | |
| | EF- | Blockchain and Smart | EF-20: Delivery process monitoring | Blockchain, | Major | Epic 22 - |
| | 338 | Contracting | | Blockchain- | | Blockchain and |
| | | | As a Sales manager, I want to monitor the delivery process of the | based | | Smart |
| | | | produced goods all the way to the customer so that I can detect | Delivery | | Contracting |
| | | | problems during delivery and customer reception keeping a history for | Monitoring | | |
| | | | future reference. | APP, ELDIA, | | |
| | | | | Kleemann, | | |
| | | | Acceptance Criteria: | Lagrama, | | |
| | | | * Live visualization at a glance of the delivery process | miloil | | |
| | | | * Warnings to the subscribed users if some eventuality (problems or | | | |
| | | | similar) is detected | | | |
| | | | * Mechanisms to get a confirmation of a success reception at the | | | |
| | | | customer side | | | |
| | | | * A log of the whole delivery process available | | | |
| | | | A log of the whole delivery process available | | | |
| | | | | | | |
| | | | EE 22. Local Departies of Coords | | | |
| | | | EF-22: Local Reception of Goods | | | |
| | | | As a Purchasing manager, I want to monitor the reception of goods in my | | | |
| | | | facilities so that I can be aware of any quick and unexpected problem | | | |
| | | | during the reception. | | | |
| | | | | | | |
| | | | Acceptance Criteria: | | | |
| | | | * Mechanism to report and manage nonconformities related to the supply | | | |
| | | | process | | | |
| | | | * Tools for the internal management of invoices, delivery notes and stock | | | |
| | | | | | | |
| | | | | | | |
| | | | EF-23: Delivery Schedule | | | |
| | | | As a Managing director, I want to have a schedule of deliveries available | | | |
| | | | so that I can be able to get a broader and quicker overview of the general | | | |
| | | | status of the delivery. | | | |
| | | | | | | |
| | | | Acceptance Criteria: | | | |
| | | | * Overview picture of the on-going delivery processes related to the | | | |
| | | | different goods in a kind of a schedule indicating deadlines and current | | | |
| | | | status of each delivery | | | |
| L | | | | 1 | 1 | <u> </u> |

| | | EF-259: Blockchain verification to improve transportation security and reliability A dapp should be available for the enhancement of trust in delivery processes of the Circular Economy Scenario. The dapp should be able to cover the different stages of the scenario such as transportation from KLE to ELDIA and from ELDIA to Miloil Acceptance Criteria * dapp for the transportation processes in Circular Economy Scenario EF-339: Blockchain traceability to improve closed loop supply chain management A web-based application should be available to the user in order to explore details about negotiations (bidding processes) in every stage of supply chain (closed loop), details about certifications/documents and details about transportation processes | | | |
|------------|----------------|--|--|--------|-----------------------------|
| EF- 337 | Data Analytics | A new epic for Data Analytics that actually clones the epic: EF-263 - Data analytics solution for the optimization of activities related to circular economy scenario. EF-264: As an operation manager (ELDIA) I want to monitor bins fill level of my customers, to monitor the trend of fill level data, to explore price forecast per material and to see tonnage predictions per material | ELDIA, Kleemann, data- analytics, miloil | Medium | Epic 21 - Data Analytics |
| | | EF-265: As an Operation manager (MILOIL) I want to deploy historical data related to previous purchases for raw material, to explore price forecast per raw material and to explore tonnage predictions per raw material | | | |

| | | | • | | |
|-----------|--|--|---------|-------|---|
| | | EF-345: As a recycling management specialist for non-hazardous material, I want to monitor the bins' fill level, so that I can be notified when waste is ready for collection Acceptance Criteria: * COMPOSITION Analytics solution should be available to ELDIA and KLE through EFPF portal * Analytics solution related to tonnage and price forecasting should be available to MILOIL pilot * A dashboard for monitoring and a notification that the waste collection bins are almost full | | | |
| EF- 64 | Epic for User Stories from Technical Partner | | | Minor | Technical Partner Epic |
| EF- 65 | Search for products, services, or supply partners to meet production objectives | | Lagrama | Minor | Epic 05 - Search for products, services, or supply partners |
| EF- 66 | Publish tenders and special supply requests inviting groups of companies to participate | | Lagrama | Minor | Epic 06 - Publish tenders and special supply requests inviting groups of companies to participate |
| EF- 67 | Monitor production processes in order to get a schedule for planning activities and take appropriate corrective actions of incidences if unexpected events occur | | Lagrama | Minor | Epic 07 - Monitor production processes |
| EF- 68 | Monitor delivery processes both incoming and outgoing in order to get a | | Lagrama | Minor | Epic 08 - Monitor delivery processes both |

| | schedule of activities and take appropriate | | | | incoming and outgoing |
|------------|--|---|---|-----------------|---|
| | corrective actions of incidences if | | | | |
| | unexpected events | | | | |
| EF- 263 | Data Analytics for the Optimization of Procedures Related to Circular Economy Activities | Data analytics solution for the optimization of activities related to circular economy scenario. Acceptance Criteria: * COMPOSITION Analytics solution should be available to ELDIA and KLE through EFPF portal * Analytics solution related to tonnage and price forecasting should be available to MILOIL pilot | ELDIA, composition, data- analytics, miloil | Minor | Epic 12 - Data Analytics for the Optimization of Procedures Related to Circular Economy Activities |
| EF- 307 | Creation of tenders and the associated management of the submitted bids | | | Minor | Epic 18 - Tendering and Bid Management Service |
| EF- 308 | Tracking of resource utilisation to support business process improvements | | | Minor | Epic 19 - Efficient Resources Management Solutions |
| EF- 309 | Factory Connectivity solution to improve Process Efficiency | | | Minor | Epic 20 - Factory Connectivity and Smart Factory Solutions |
| EF- 94 | OEM tendering process and HR support | | Aerospace | Nice to have | Epic 04 - OEM tendering process and HR support |

3.2 EFPF Stories and Sub-tasks

The Stories and associated Sub-tasks are listed in this chapter.

Overall, we identified 66 Stories and 157 Sub-tasks.

| Key | Summary | Description | Labels | Priority | lssue Type | Linked Issues |
|--------------------------|---|--|--|----------|---------------|---|
| <u>EF-</u> <u>27</u> | Search of products and services | As a Purchasing manager, I want to search for particular products and services so that I can define a specific supply chain for the production of particular goods. Acceptance Criteria: * Search mechanisms available in the platform to get a collection of products and services according to criteria * Availability of text-based search and search by exploring the different categories of products and services available in the platform * Mechanisms to filter the retrieved collection of products by specific properties (i.e.: price, color, etc.) | Lagrama, EFPF Federated Search, nimble | Critical | Story | EF-305, EF-88 |
| <u>EF-</u> <u>372</u> | Predictive maintenance | As a Production manager, I want to monitor the operation of a machine and perform a data analysis so that I can detect anomalous working conditions and take preventive actions. Acceptance Criteria: * Overall machine operation log available for data analysis * Notification system for awareness of particular anomalous working conditions * This user story is focused on the internal production processes in LAGRAMA | Lagrama, new Production Monitoring Solution | Critical | Story | |
| <u>EF-</u> <u>19</u> | Production process monitoring in a supply chain | As a Sales, Production or Purchasing manager, I want to monitor the production process of goods I have requested so that I can detect problems during production and can keep a history for future reference. Acceptance Criteria: * Live visualization at a glance of the production process * Warnings to the subscribed users if some eventuality (problem or similar) is detected * A log of the whole production process available | Lagrama | Critical | Story | EF-368, EF-369, EF-370, EF-371, EF-103, EF-102, EF-302, EF-304, EF-21, EF-21, EF-17 |

| <u>EF-</u> <u>26</u> | Tender publication and tender bid assessment | As a Purchasing manager, I want to publish a tender so that I can get proposals for covering the supply of the different product parts. Acceptance Criteria: * Publication of a supply tender with detailed information * Invitation to companies to participate in a tender * Mechanisms to obtain a detailed description of supplies (i.e.: raw materials, components, substances) provided by the suppliers to assess its level of quality * Arrangement a reverse auction to catch the best applicants for the required element in terms of quality-price ratio * A transparent environment where every applicant can be aware of the basic information of the bids (i.e.: price and delivery time) submitted by other members in the auction | Lagrama, Tendering Service on SMECluster platform, composition, digicor, matchmaking | Critical | Story | EF-365, EF-366, EF-367, EF-101, EF-102, EF-28, EF-25, EF-328 |
|-------------------------|---|---|---|----------|-------|---|
| <u>EF-</u> <u>24</u> | Replace logistics provider to meet just- in-time delivery | As a Purchasing manager, I want to manufacture and deliver just-in-time so that I can reduce storage costs. Acceptance Criteria: * Mechanisms to get a detailed and general vision of the delivery status of the different goods to be sent * Mechanisms to cancel a logistics provider and quickly replace it with another one | Lagrama, EFPF Matchmaking Service | Critical | Story | EF-158, EF-160, EF-102, EF-305, EF-30 |
| <u>EF-</u> <u>28</u> | Request for quotation of customised product | As a Purchasing manager, I want to send requests for quotation of customised product so that I can evaluate the adequacy of the parties to be involved in the supply chain. Acceptance criteria: * Mechanisms to send a request for quotation (RFQ) to other members of the platform indicating the particular product or service, quantity, and particular considerations through the platform * Reception of response of the RFQ indicating the quotation and particular considerations from the supplier party * Grouping capabilities in order to have a clear and maintainable tracking of the RFQ processes carried out through the platform | Lagrama, nimble | Critical | Story | EF-101, EF-102, EF-305, EF-26 |
| <u>EF-</u> <u>53</u> | Request and receive possible suppliers' details | As a recycling management specialist for non-hazardous material, I want to find a specialised waste management company, so that I can manage the collection and handling process in a more efficient way (automated and optimised) in order to reduce the management time and cost of the | Kleemann, composition, matchmaking, online-bidding | Critical | Story | |

| L | | | | 1 | 1 | | |
|---|-------------------------|---|--|--|----------|-------|---|
| | | | internal logistics and supply chain processes. | | | | |
| | | | Acceptance criteria: * A list of specialised waste management companies' contacts available * An overview of each company based on the requested service/product * An evaluation of each company based on historical platform data (ranking) * Selection and invitation to waste management companies to start a collaboration | | | | |
| | <u>EF-</u> <u>21</u> | High level production overview | As a Managing director, I want to have a high-level overview of the enterprise processes so that I can get general information about production and delivery processes avoiding details. Acceptance Criteria: * Overview picture of the processes carried out by the company, such as production and delivery processes * This user story is focused on the internal production processes in LAGRAMA | Lagrama, new Production Monitoring Solution | Critical | Story | EF-103, EF-151, EF-152, EF-153, EF-102, EF-19, EF-335 |
| | <u>EF-</u> <u>61</u> | Browse, contact, and negotiate with suppliers | As a Purchasing manager, I want to negotiate prices and contracts with suppliers, so that I can buy specialised products at the best price Acceptance criteria: * A repository of suppliers * A history of relationships established with these suppliers through the platform, such as negotiations, information requests, etc. * An evaluation of each company based on historical platform data (ranking) * Price and payment terms | ELDIA, Kleemann, composition, federated- search, matchmaking, miloil, nimble | Critical | Story | EF-305, EF-56 |
| | <u>EF-</u> <u>54</u> | Online bidding process for scraps and wood wastes | As a Purchasing manager or Purchasing specialist, I want to negotiate prices and contracts so that I can obtain high-quality services/products at reasonable prices Acceptance criteria: * An automated online bidding mechanism that provides suggestions of best available supplier for a service and enables the automation of negotiation procedures in a close loop | ELDIA, Kleemann, agents, composition, matchmaking, online-bidding | Critical | Story | EF-305, EF-261 |
| | <u>EF-</u> <u>30</u> | Set up logistics supplier in new country | As a Purchasing manager, I want to find logistics providers when delivering to a country for the first time so that I can provide an adequate delivery time at an adjusted cost. | Lagrama, matchmaking | Critical | Story | EF-158, EF-102, EF-305, |

| | | Acceptance Criteria: * Capability to search for logistics services in retrieve results according to indicated parameters (i.e.: origin, destination, delivery time, etc.) * The management of nonconformities is not covered in this user story so it has been previously covered | | | | EF-14, EF-24 |
|-------------------------|--------------------------------|---|--|----------|-------|---|
| <u>EF-</u> <u>29</u> | Exchange product catalogue | As a Sales manager, I want to exchange catalogues of products and services with other members of the platform so that I can detect opportunities to improve the configuration of the supply chain. Acceptance Criteria: * Capability to share information of products and services (catalogue) with other companies * Mechanisms to export catalogue data in a given format, in order to be optionally imported in an ERP system * The deletion and updates of information about products and services is implicitly considered as an update of the catalogue data Explanatory note: In the activity diagram, the process is illustrated by a supplier that requests the catalogue of a manufacturer and then exports in some own system. However, the import could be done by the same manufacturer, in order to export the catalogue from EFPF and import it in its own system. The import process would be outside the scope of EFPF so the company is in charge of importing into its system. The export format needs to be represented in a comprehensive and structured manner to reduce the effort of developing ERP adapters. | Lagrama, nimble | Critical | Story | EF-306 |
| <u>EF-</u> 20 | Delivery process monitoring | As a Sales manager, I want to monitor the delivery process of the produced goods all the way to the customer so that I can detect problems during delivery and customer reception keeping a history for future reference. Acceptance Criteria: * Live visualization at a glance of the delivery process * Warnings to the subscribed users if some eventuality (problems or similar) is detected * Mechanisms to get a confirmation of a success reception at the customer side * A log of the whole delivery process available | Blockchain- based Delivery Monitoring APP, Lagrama | Critical | Story | EF-153, EF-102, EF-338, EF-352, EF-23, EF-22 |

| | | · | - | | | |
|--------------------------|--|---|---|----------|-------|-------|
| <u>EF-</u> <u>352</u> | Delivery process monitoring | As a Sales manager, I want to monitor the delivery process of the produced goods all the way to the customer so that I can detect problems during delivery and customer reception keeping a history for future reference. Acceptance Criteria: * Live visualization at a glance of the delivery process * Warnings to the subscribed users if some eventuality (problems or similar) is detected * Mechanisms to get a confirmation of a success reception at the customer side * A log of the whole delivery process available | Blockchain- based Delivery Monitoring APP, Lagrama | Critical | Story | EF-20 |
| <u>EF-</u> <u>335</u> | High level production overview [DEV] | As a Managing director, I want to have a high-level overview of the enterprise processes so that I can get general information about production and delivery processes avoiding details. Acceptance Criteria: * Overview picture of the processes carried out by the company, such as production and delivery processes * This user story is focused on the internal production processes in LAGRAMA | Lagrama, new Production Monitoring Solution | Critical | Story | EF-21 |
| <u>EF-</u> <u>328</u> | Tender publication and tender bid assessment [DEV] | As a Purchasing manager, I want to publish a tender so that I can get proposals for covering the supply of the different product parts. Acceptance Criteria: * Publication of a supply tender with detailed information * Invitation to companies to participate in a tender * Mechanisms to obtain a detailed description of supplies (i.e.: raw materials, components, substances) provided by the suppliers to assess its level of quality * Arrangement a reverse auction to catch the best applicants for the required element in terms of quality-price ratio * A transparent environment where every applicant can be aware of the basic information of the bids (i.e.: price and delivery time) submitted by other members in the auction | Lagrama, Tendering Service on SMECluster platform, composition, digicor, matchmaking | Critical | Story | EF-26 |
| <u>EF-</u> <u>323</u> | Product request [DEV] | As a Purchasing manager, I want to publish a product demand so that I can get product offers that fulfil the expected technical and quality requirements. | Lagrama, Tendering Service on SMECluster | Critical | Story | EF-25 |

| | | Acceptance Criteria: | platform, | | | |
|-------------------------|------------------------|---|--------------------------|----------|-------|---------|
| | | * Mechanisms to publish a product request with detailed information in | composition | | | |
| | | order to get information about companies able to offer supplies (i.e.: raw | | | | |
| | | materials, components, substances) that can fulfil that product. | | | | |
| <u>EF-</u> | Product request | As a Purchasing manager, I want to publish a product demand so that I | Lagrama, | Critical | Story | EF-101, |
| <u>25</u> | | can get product offers that fulfil the expected technical and quality | Tendering | | | EF-26, |
| | | requirements. | Service on SMECluster | | | EF-323 |
| | | Acceptance Criteria: | platform, | | | |
| | | * Mechanisms to publish a product request with detailed information in | composition | | | |
| | | order to get information about companies able to offer supplies (i.e.: raw | composition | | | |
| | | materials, components, substances) that can fulfil that product. | | | | |
| EF- | Invitation to join | As a Production manager, I want to manage my contacts in an organized | Lagrama, | Critical | Story | EF-14 |
| 317 | collaboration platform | manner so that selected companies could be invited to participate in a | composition, | Cinical | Clory | |
| | [DEV] | particular supply chain. | matchmaking | | | |
| | | | Ŭ | | | |
| | | Acceptance Criteria: | | | | |
| | | * List of contacts of the company | | | | |
| | | * Mechanism to send invitation to companies to take part in a supply | | | | |
| | | chain | | | | |
| | | | | | | |
| | | Explanatory note: | | | | |
| | | Invited companies need to register in EFPF in order to take part in a supply chain. If the company is already registered in EFPF then the | | | | |
| | | invitation can be done directly through EFPF. The mechanism to import | | | | |
| | | contacts from EFPF to the company system is out of the scope of EFPF | | | | |
| | | and the company would be in charge of this. The export format needs to | | | | |
| | | be represented in a comprehensive and structured manner to reduce the | | | | |
| | | effort of developing ERP adapters. | | | | |
| EF- | Invitation to join | As a Production manager, I want to manage my contacts in an organized | Lagrama, | Critical | Story | EF-30, |
| <u>EF-</u> <u>14</u> | collaboration platform | manner so that selected companies could be invited to participate in a | composition, | | | EF-317 |
| | | particular supply chain. | matchmaking | | | |
| | | | | | | |
| | | Acceptance Criteria: | | | | |
| | | * List of contacts of the company | | | | |
| | | * Mechanism to send invitation to companies to take part in a supply | | | | |
| | | chain | | | | |
| | | Explanatory note: | | | | |
| L | l | | 1 | I | L | 1 |

| | | Invited companies need to register in EFPF in order to take part in a supply chain. It the company is already registered in EFPF then the invitation can be done directly through EFPF. The mechanism to import contacts from EFPF to the company system is out of the scope of EFPF and the company would be in charge of this. The export format needs to be represented in a comprehensive and structured manner to reduce the effort of developing ERP adapters. | | | | |
|------------------------|----------------------------------|---|-----------|----------|-------|------------------|
| <u>EF</u> 60 | specialised product customers | As a Sales Manager, I want to perform analytics on my customers so that I can sell them specialised product at the best price Acceptance criteria: * A repository of customers * A history of relationships established with these through the platform, such as negotiations, information requests, etc. * An evaluation of each company based on historical platform data (ranking) * Price and payment terms | Kleemann | Critical | Story | EF-55, EF-15 |
| <u>EF</u> 88 | | As staff working for the purchasing, engineering or project management department, I aim to find partners for a variety of specific products and services, so that my company has the full overall view of available suppliers on the market without the need of huge research efforts, to be able to work with the best products (price/leadtime/quality) and suppliers (reliability/communication/quality). Acceptance Criteria: * Ability to search for suitable products and services on an adhoc-basis based on a rating system taking into account parameters like delivery reliability/quality and several other ones. Outcome: Supplier having the correct expertise, experience, required quality standards, certificates, and the capacity for successful collaboration * Ability to get contact details or the possibility to send invitations to potential suppliers | Aerospace | Major | Story | EF-305, EF-27 |
| <u>EF</u> <u>93</u> | | As staff working for the purchasing department, I aim to find partners for joint purchase of (raw) materials and products with high MOQ, so that my company is able to get into market with competitive pricing also from the lot size one perspective. Acceptance Criteria: * Ability to search for different (raw) material and products providers. | Aerospace | Major | Story | |

| | | * Ability to search for (raw) material and products also taking into account needed quantities (e.g. via internal or external catalogues). Outcome: Partner companies needing same (raw) materials and products for similar time periods. * Ability to provide possibility to search also time-related (when do the materials and products have to be physically available at respective company facility). * Ability to get contact details or the possibility to get into contact with potential partner companies (send invitations). * Ability to provide legal framework as contractual basis for potential partners and the possibility to initiate smart contract and joint order. * Ability to perform all order related communications (order administration/payment etc.) via EFPF based on ATA Spec2000 standard. * Ability to track and trace shipment | | | | |
|-------------------------|--------------------|---|--|-------|-------|-----------------------------|
| <u>EF-</u> <u>15</u> | Customer analytics | As a Sales manager or Production manager, I want to condense more information of my customer so that I can arrange more business relationships with them. Acceptance Criteria: * A repository of customer's information * Analytics of relationships established with these customers through the platform, such as negotiations, information requests, accepted and rejected tender bids, etc. | Customer Data Analytic Application, Lagrama | Major | Story | EF-127, EF-305, EF-60 |
| | | Explanatory note: EFPF needs to provide a sort of Dashboard with analytics prompting indicators related to the activity of the company with other parties (mainly customers). The concrete list of indicators needs to be defined. A mechanism to export these analytics would be valuable. The import mechanism is out of the scope of EFPF and the company would be in charge of this. The export format needs to be represented in a comprehensive and structured manner to reduce the effort of developing ERP adapters. | | | | |
| | | Regarding the customer information to be managed in EFPF, the following can be stated: * On one hand, LAGRAMA is interested in collecting data about those | | | | |

| | | | customers on areas where the sales are particularly low, in order to get some insights about the situation in comparison to areas where the sales are higher. * On the other hand, they are interested in what furniture are they selling to those customers, and the consumer profile of its buyers. | | | | |
|----------|-------------------------|--|--|---|-------|-------|------------------|
| | <u>EF-</u> 264 | Optimization of Planning Activities for Effective Waste Management through EFPF Platform | As a Planning manager, I want to use a set of analytics functionalities so that I can optimize my planning activities for the waste management procedures that the company provides to its customers. Acceptance Criteria: * Analytics dashboard to provide bins monitoring, fill level trend analysis, statistics, price and tonnage forecasting. | ELDIA | Major | Story | EF-337, EF-59 |
| | <u>EF-</u> 265 | Optimization of Planning Activities for Purchasing New Materials | As a Planning manager, I want to use a set of analytics functionalities so that I can optimize my planning activities Acceptance Criteria: * Analytics dashboard to provide price and tonnage forecasting. Planning activities' optimization would be enabled by analytic services related to price and tonnage forecasting for raw materials | miloil | Major | Story | EF-337 |
| | <u>EF-</u> 261 | Online bidding for processed wastes | As a Purchasing manager or Purchasing specialist, I want to negotiate prices and contracts so that I can obtain high-quality services/products at reasonable prices Acceptance criteria: * An automated online bidding mechanism that provides suggestions of best available supplier for a service and enables the automation of negotiation procedures in a close loop | ELDIA, agents, matchmaking, miloil, online- bidding | Major | Story | EF-54 |
| <u> </u> | <u>EF-</u> <u>59</u> | High level market opportunities overview | As a Managing director, I want to have a high-level overview of the market opportunities based on predictions that support my decision to sell (if, whom and when). Acceptance criteria: * Overview picture of the price predictions carried out by the platform | Kleemann | Major | Story | EF-264 |
| | <u>EF-</u> 260 | Blockchain traceability to improve closed loop supply chain management | As a Purchasing manager, I want to monitor the online bidding process activities in every stage of the loop so that I can have full visibility of negotiation processes and their details in the Circular Economy Scenario. Acceptance Criteria: | Blockchain, ELDIA, Kleemann, miloil | Major | Story | EF-339 |

| EF- 92Blockchain verification to improve transportation security and reliabilityShould be available to the user in order to explore details about negotiations (bidding processes) in every stage of supply chain (closed loop), details about certifications/documents and details about transportation processesBlockchain- basedMajorStoryEl EEF- 259Blockchain verification security and reliabilityAs a Purchasing manager, I want to monitor the different stages of a transportation so that I can trust and have fully visibility of delivery processes of the Circular Economy Scenario.Blockchain- based Delivery Monitoring APP, ELDIA, Kleemann, miloilMajorStoryEl entremanneEF- 259Ef- transportation security and reliabilityAcceptance Criteria * dapp for the transportation processes in Circular Economy Scenario. The dapp should be available for the enhancement of trust in delivery processes of the Circular Economy Scenario. The dapp should be able to cover the different stages of the scenario such as transportation from KLE to ELDIA and from ELDIA to MiloilAerospaceMajorStoryEF- 92Find partners for joint purchase ofAs staff working for the purchasing department, I aim to find partners for joint purchase of consumables, so that potential savings are identifiedAerospaceMajorStory | |
|--|----------------|
| EF- 259Blockchain verification to improve transportation security and reliabilityAs a Purchasing manager, I want to monitor the different stages of a transportation so that I can trust and have fully visibility of delivery processes of the Circular Economy Scenario.Blockchain- based Delivery Monitoring APP, ELDIA, Kleemann, miloilMajorStory E E StoryEF- 259Blockchain verification to improve transportation security and reliabilityAs a Purchasing manager, I want to monitor the different stages of a transportation so that I can trust and have fully visibility of delivery processes of the Circular Economy Scenario.Blockchain- based Delivery Monitoring APP, ELDIA, Kleemann, miloilMajorStoryE E transportation based Delivery Monitoring APP, ELDIA, Kleemann, miloilStoryE E transportation from Monitoring APP, ELDIA, Kleemann, miloilStoryE transportation from KLE to ELDIA and from ELDIA to MiloilMajorStoryStory | |
| EF- 259Blockchain verification to improve transportation security and reliabilityAs a Purchasing manager, I want to monitor the different stages of a transportation so that I can trust and have fully visibility of delivery processes of the Circular Economy Scenario.Blockchain- based Delivery Monitoring APP, ELDIA, Kleemann, miloilMajorStoryE E EEF- 259Ef- based Delivery processes of the Circular Economy Scenario.Acceptance Criteria * dapp for the transportation processes in Circular Economy Scenario. The dapp should be available for the enhancement of trust in delivery processes of the Circular Economy Scenario. The dapp should be able to cover the different stages of the Scenario such as transportation from KLE to ELDIA and from ELDIA to MiloilMajorStoryStoryEF- 92Find partners for joint purchase ofAs staff working for the purchasing department, I aim to find partners for joint purchase of consumables, so that potential savings are identifiedAerospaceMajorStory | |
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| 259to improve transportation security and reliabilitytransportation so that I can trust and have fully visibility of delivery processes of the Circular Economy Scenario.based Delivery Monitoring APP, ELDIA, Kleemann, miloilElEF- 92Find partners for joint purchase ofAs staff working for the purchasing department, I aim to find partners for joint purchase of consumables, so that potential savings are identifiedAerospaceMajorStory | -338, |
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| and reliabilityAcceptance Criteria * dapp for the transportation processes in Circular Economy Scenario. The dapp should be available for the enhancement of trust in delivery processes of the Circular Economy Scenario. The dapp should be able to cover the different stages of the scenario such as transportation from KLE to ELDIA and from ELDIA to MiloilMonitoring APP, ELDIA, Kleemann, miloilEF- 92Find partners for joint purchase ofAs staff working for the purchasing department, I aim to find partners for joint purchase of consumables, so that potential savings are identifiedAerospaceMajorStory | |
| * dapp for the transportation processes in Circular Economy Scenario. The dapp should be available for the enhancement of trust in delivery processes of the Circular Economy Scenario. The dapp should be able to cover the different stages of the scenario such as transportation from KLE to ELDIA and from ELDIA to MiloilKleemann, miloilKleemann, miloilEF- 92Find partners for joint purchase ofAs staff working for the purchasing department, I aim to find partners for joint purchase of consumables, so that potential savings are identifiedAerospaceMajorStory | |
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| 92 purchase of joint purchase of consumables, so that potential savings are identified | |
| | |
| consumables and lower purchasing prices secure the competitive position with long | |
| | |
| lasting perspective. | |
| Acceptance Criteria: | |
| * Ability to search for different consumables providers. | |
| * Ability to search for consumables also taking into account needed | |
| quantities (e.g. via internal or external catalogues). Outcome: Partner | |
| companies needing same consumables for similar time periods. | |
| * Ability to provide possibility to search also time-related (when do the | |
| materials and products have to be physically available at respective | |
| company facility). | |
| * Ability to get contact details or the possibility to get into contact with | |
| potential partner companies (send invitation). | |
| * Ability to provide legal framework as contractual basis for potential | |
| partners and the possibility to initiate smart contract and joint order. | |
| * Ability to perform all order related communications (order | |
| administration/payment etc.) via EFPF based on ATA Spec2000 | |
| standard. | |
| | |
| | -306, |
| (predefined user group like A/C OEM, Airlines, MRO, 1st-tier suppliers) | -306, -356, |

| | and offer them to a | can search for them easily, which leads to a better visibility of our | | | | EF-357, |
|-------------------------|---|---|----------------------|-------|-------|-------------------|
| | predefined user group | capabilities to the respective customer groups. | | | | EF-358 |
| | | Acceptance Criteria: * Ability to place products and services with applicable detailing descriptions as well as other specific information (leadtime, purchase conditions etc.) in the form of a catalogue. * Ability to search for different products and services, presented in predefined categories. * Ability to include or exclude certain customers/suppliers for the products and services (white list/black list). * Ability to take into account leadtimes and price ranges when searching for products and services. * Ability to receive (supplier) / provide (customer) more information of the project standing behind the search of the specific products and services. * Ability to get contact details or the possibility to get into contact with potential partner companies. * Ability to provide legal framework as contractual basis for potential partners (e.g. initiate smart contract as an option). * Ability to provide information for customer directly out of factory connector (e.g. spare part status ("in production"/"Under quality review"/"Ready to ship" or similar). * Ability to perform all order related communications (order administration/payment etc.) via EFPF based on ATA Spec2000 standard. * Ability to track and trace shipment. | | | | |
| <u>EF-</u> <u>86</u> | Define a product / service catalogue | As a Marketing Manager, I want to define catalogues for the products and services of my company so that those products / services can be offered to selected customers (companies). | Aerospace, nimble | Major | Story | EF-306, EF-357 |
| | | Acceptance criteria: * Products / services can be listed in catalogues and those catalogues can be linked to selected customers | | | | |
| <u>EF-</u> <u>87</u> | Create product / service catalogues for customers and specify sales conditions | As a Sales Manager, I want to create the B2B catalogue for specific customers and specify the sales conditions (prices, delivery terms and conditions, etc.) so that items (products / services) in the catalogue are offered to selected customers (companies) with those specified sales conditions (prices, etc.) negotiated in (smart) contract templates. | Aerospace | Major | Story | EF-306, EF-359 |

| | | Acceptance criteria: * B2B catalogue for dedicated customers can be created and contract terms and the (smart) contract template can be specified | | | | |
|-------------------------|---|---|-------------------------|-------|-------|---|
| <u>EF-</u> <u>90</u> | Place spare parts in catalogue and offer them to a predefined user group | As staff working for the sales or marketing department, I aim to place relevant spare parts in a catalogue, so that potential customers (predefined user group like A/C OEM, Airlines, MRO, 1 st -tier suppliers) can search for them easily to find the relevant supplier. | Aerospace | Major | Story | EF-306, EF-356, EF-358, EF-360 |
| | | Acceptance Criteria: * Ability to place spare parts with applicable detailing descriptions as well as other specific information (lead time, purchase conditions etc.) in the form of a catalogue. * Ability to search for different spare parts, presented in predefined categories. * Ability to include/exclude (white/black list) certain customers/suppliers for spare parts * Ability to take into account lead times and price ranges when searching * Ability to receive (supplier) / provide (customer) more information of the project standing behind the search of the specific spare part. * Ability to provide legal framework as contractual basis for potential partners (e.g. framework contracts with service levels regarding reaction time, availability, performance, quality etc.). * Ability to provide information for customer directly out of factory connector (e.g. spare part status (in production, under quality review, ready to ship, or similar). * Ability to perform all order related communications (order administration/payment etc.) via EFPF based on ATA Spec2000 standard. * Ability to track and trace shipment. | | | | |
| <u>EF-</u> <u>58</u> | Equipment Selection and Purchasing | As a Purchasing Manager, I want to order the selected equipment from my suppliers so that I can utilise it in a specific product (e.g., wood) process Acceptance criteria: * Mechanisms to send/receive orders including contract agreements and banking information | Kleemann | Major | Story | EF-16 |
| <u>EF-</u> 56 | Search for suppliers | * Availability of tracking the status of an order As an Operations Manager and a Purchasing Manager, we want to search and extend the network of our suppliers so that we can arrange | Kleemann, federated- | Major | Story | EF-61 |

| | | the purchase of more specialised equipment at reasonable prices Acceptance criteria: * A repository of suppliers * A history of relationships established with these customers and suppliers through the platform, such as negotiations, information requests, etc. * Technical characteristics of the specialised equipment * A maintenance agreement * An evaluation of each company based on historical platform data (rankings-shortlist) and customers' ratings * Price and payment terms | search, matchmaking | | | |
|--------------------------|--|---|--|-------|-------|--|
| <u>EF-</u> <u>55</u> | Search for new customers | As a Sales Manager, I want to grow my repository of potential customers so that I can arrange more business relationships with them Acceptance criteria: * A repository of customers * A history of relationships established with these through the platform, such as negotiations, information requests, etc. * An evaluation of each company based on historical platform data (ranking) | Kleemann, federated- search, matchmaking | Major | Story | EF-60 |
| <u>EF-</u> <u>262</u> | Registration of new company for online bidding process | This is a new one | ELDIA, Kleemann, agents, miloil, online-bidding | Major | Story | EF-305 |
| <u>EF-</u> <u>286</u> | Add or update services/products | As a future supplier, I want to be able to add and update my company details and my products/services to the e-factory marketplace, so that potential customers can search for them easily, leading to a better visibility of our company to the marketplace. Acceptance Criteria: * Ability to add company information * Ability to update company information * Ability to add products and services in the form of a catalogue. * Ability to update products and services in the form of a catalogue | federated- search | Major | Story | EF-305, EF-340 |
| <u>EF-</u> <u>23</u> | Delivery schedule | As a Managing director, I want to have a schedule of deliveries available so that I can be able to get a broader and quicker overview of the general status of the delivery. | Blockchain- based Delivery | Major | Story | EF-103, EF-148, EF-151, EF-152, |

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| | | Acceptance Criteria: * Overview picture of the on-going delivery processes related to the different goods in a kind of a schedule indicating deadlines and current status of each delivery | Monitoring APP, Lagrama | | | EF-153, EF-158, EF-159, EF-160, EF-102, EF-338, EF-20, EF-354 |
| <u>EF-</u> <u>345</u> | Bins' fill level monitoring [DEV] | As a recycling management specialist for non-hazardous material, I want to monitor the bins' fill level, so that I can be notified when waste is ready for collection Acceptance criteria: * A dashboard for monitoring and a notification that the waste collection bins are almost full | Kleemann, Lagrama, fill- level | Major | Story | EF-337, EF-49 |
| <u>EF-</u> <u>354</u> | Delivery schedule | As a Managing director, I want to have a schedule of deliveries available so that I can be able to get a broader and quicker overview of the general status of the delivery. Acceptance Criteria: * Overview picture of the on-going delivery processes related to the different goods in a kind of a schedule indicating deadlines and current status of each delivery | Blockchain- based Delivery Monitoring APP, Lagrama | Major | Story | EF-23 |
| <u>EF-</u> <u>355</u> | Blockchain verification to improve transportation security and reliability | A dapp should be available for the enhancement of trust in delivery processes of the Circular Economy Scenario. The dapp should be able to cover the different stages of the scenario such as transportation from KLE to ELDIA and from ELDIA to Miloil Acceptance Criteria * dapp for the transportation processes in Circular Economy Scenario | Blockchain- based Delivery Monitoring APP, ELDIA, Kleemann, miloil | Major | Story | EF-259 |
| <u>EF-</u> <u>49</u> | Bins' fill level monitoring | As a recycling management specialist for non-hazardous material, I want to monitor the bins' fill level, so that I can be notified when waste is ready for collection Acceptance criteria: * A dashboard for monitoring and a notification that the waste collection bins are almost full | Kleemann, Lagrama, fill- level | Major | Story | EF-345 |
| <u>EF-</u> <u>46</u> | Track, trace, and Credit Users | As an EFPF platform owner, I want to track, trace and credit users, so that this data can be processed for the selected business model(s). | Challenge, M10 | Major | Story | |

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| | | Acceptance Criteria: * User journey visible for Accountancy Service * Provided data can be used for business models | | | | |
| <u>EF-</u> <u>48</u> | Access other Platforms with one Login | As an EFPF platform user, I want to access other platforms with one login, so that I do not have to manage multiple logins for each platform. Acceptance Criteria: | Challenge, M10 | Major | Story | |
| | | * User can use its default credentials to use a tool provided by the EFPF Portal. * User does not have to provide credentials multiple times. | | | | |
| <u>EF-</u> <u>47</u> | Usage of Tools and Services from other Platforms | As an EFPF platform user, I want to use tools and services from other platforms, so that it helps/supports me in my business/brings me an advantage. | Challenge, M10 | Major | Story | |
| | | Acceptance Criteria: * Tools are available in EFPF Portal * Tools can be used independent of the user's origin platform. | | | | |
| <u>EF-</u> <u>45</u> | List Products on the EFPF Marketplace | As a base platform marketplace owner, I want to list own products on the EFPF Marketplace, so that users from other base platforms can find them. | Challenge, M10 | Major | Story | |
| | | Acceptance Criteria: *Connection between EFPF marketplace and base platform marketplace * Same search results when using same search parameters | | | | |
| <u>EF-</u> <u>373</u> | Waste collection optimization | As a Production manager, I want to monitor the fill level of the outdoor waste bins so that I can optimize the waste collection procedure. | Lagrama, new Production Monitoring Solution | Medium | Story | |
| | | Acceptance Criteria: * Bin fill level monitoring information available * Notification for awareness of ready-to-collect bins * This user story is focused on the internal production processes in LAGRAMA | Solution | | | |
| <u>EF-</u> <u>301</u> | Visualise the status of all products and services within a company's catalogue | Create visualisations within the company dashboards to show the status of all products and services in a company's catalogue This will allow users to view information about trends within their own | AID, EF-A5, HAW, SRFG, VLC | Minor | Story | |
| | sempany o oataloguo | catalogue of products or services at the earliest possible time. | | | | |

| <u>EF-</u> <u>300</u> | Visualise the most searched products in a company's catalogue | Create visualisations within the company dashboards to show the most searched products in a company's catalogue This will allow users to view information about trends within their own | AID, EF-A5, HAW, SRFG, VLC | Minor | Story | |
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| <u>EF-</u> 299 | Create company dashboards that can visualise company specific data | catalogue of products or services at the earliest possible time. Create company dashboards within Kibana for the Business & Network Intelligence Service. These dashboards will only display information relevant to a user's registered company. | AID, EF-A5, HAW, VLC, | Minor | Story | |
| | | This will allow users to view information about trends within their own catalogue of products or services at the earliest possible time. | | | | |
| <u>EF-</u> 298 | Visualise the most searched companies in the EFPF Platform | Create visualisations to show the most searched companies within the EFPF platform. e.g., most searched company by Region, Industry, Size, Technology This will allow users to view information about platform trends at the | AID, EF-A8, HAW | Minor | Story | |
| <u>EF-</u> 297 | Visualise the most searched products in the EFPF Platform | earliest possible time Create visualisations to show the most searched products within the EFPF platform. e.g., most searched product by Region and by Industry | AID, EF-A8, HAW | Minor | Story | |
| | | This will allow users to view information about platform trends at the earliest possible time | | | | |
| <u>EF-</u> 296 | Visualise the most searched keywords in the EFPF Platform | Create visualisations to show the most queried keywords within the EFPF platform. e.g., most searched term weekly, monthly, yearly, all-time | AID, EF-A8, HAW | Minor | Story | |
| | | This will allow users to view information about platform trends at the earliest possible time | | | | |
| <u>EF-</u> <u>18</u> | (Removed from LAG use case) Manage bill of materials (BoM) of products. | As a Production manager, I want to manage the bill of materials (BoM) of my products so that I can get an overview of the different parts that compose my products in order to plan its production and supply. | Lagrama | Minor | Story | |
| | | Acceptance Criteria: * Visualization of the different parts that make up a product * Mechanisms to associate these parts to own production processes or supply from other partners | | | | |

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| <u>EF-</u> <u>16</u> | Send and receive orders | As a Production manager, I want to send orders to suppliers and receive orders from customers so that I can improve the efficiency of the supply process. | Lagrama, nimble | Trivial | Story | EF-58, EF-22 |
| | | Acceptance Criteria: * Mechanisms to send/receive orders * Availability of tracking the status of an order | | | | |
| <u>EF-</u> <u>22</u> | Local reception of goods | As a Purchasing manager, I want to monitor the reception of goods in my facilities so that I can be aware of any quick and unexpected problem during the reception. Acceptance Criteria: * Mechanism to report and manage nonconformities related to the supply process * Tools for the internal management of invoices, delivery notes and stock | Lagrama | Trivial | Story | EF-104, EF-105, EF-338, EF-20, EF-16, EF-353 |
| <u>EF-</u> <u>353</u> | Local reception of goods | As a Purchasing manager, I want to monitor the reception of goods in my facilities so that I can be aware of any quick and unexpected problem during the reception. Acceptance Criteria: * Mechanism to report and manage nonconformities related to the supply process * Tools for the internal management of invoices, delivery notes and stock | Lagrama | Trivial | Story | EF-22 |
| <u>EF-</u> <u>50</u> | Product processing and remote maintenance | As an Operations manager, I want to process waste material (e.g., wood) so that I meet the criteria regarding size and quality and achieve higher productivity, efficiency, and profitability. Acceptance criteria: * Mechanisms to initialise a connection with maintenance support in case of a breakdown * Availability of ordering spare parts from specific suppliers (as suggested by the maintenance support team) | Kleemann | Nice to have | Story | |
| <u>EF-</u> <u>96</u> | Place tender also for 1st suppliers and downwards | As staff working for the purchasing or engineering department, I aim to have only one portal available to place tenders for my sub-suppliers for specific products and services, I can get quotations in an efficient way that also allows automatic comparison of the relevant quotations taking into account different provided frame conditions of the suppliers. Acceptance Criteria: | Aerospace, composition | Nice to have | Story | EF-334 |

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| | | * Ability to search for suppliers with specific products and services. * Ability to place a tender with all relevant information (kind of product/service with detailed description/ timeline/conditions of purchase/deadline for quotation etc.) taking into account a defined "receiving" group of companies. * Ability to be contacted for queries from the suppliers. * Ability to receive quotations for the needed product and services. | | | | |
| <u>EF-</u> <u>95</u> | Finding skilled staff for interim support on an ad-hoc basis | As staff working for the HR department, I aim to find rapidly highly skilled staff for production line, so that my company can also deal with short- term high workloads and is not forced to refuse due to capacity restrictions. Acceptance Criteria: * Ability to search for different skilled staff based on needed skills, years of experience, timely availability, location of work etc. * Ability for HR companies to provide available staff in the form of a catalogue. * Ability to get contact details or the possibility to get into contact with potential HR companies. * Ability to provide legal framework as contractual basis for temporarily hiring staff. | Aerospace, matchmaking | Nice to have | Story | |
| <u>EF-</u> <u>17</u> | Production optimization | As a Production manager, I want to speed up the production so that I can reduce the time to serve the customer. Acceptance Criteria: * Mechanisms available to configure and optimise production processes and the supply chain in order to improve its performance | Lagrama | Nice to have | Story | EF-19, EF-310 |
| <u>EF-</u> <u>334</u> | Place tender also for 1st suppliers and downwards [DEV] | As staff working for the purchasing or engineering department, I aim to have only one portal available to place tenders for my sub-suppliers for specific products and services, so that I can get quotations in an efficient way that also allows automatic comparison of the relevant quotations taking into account different provided frame conditions of the suppliers. Acceptance Criteria: * Ability to search for suppliers with specific products and services. * Ability to place a tender with all relevant information (kind of product/service with detailed description/ timeline/conditions of purchase/deadline for quotation etc.) taking into account a defined "receiving" group of companies. | Aerospace, composition | Nice to have | Story | EF-96 |

| | | * Ability to be contacted for queries from the suppliers. * Ability to receive quotations for the needed product and services. | | | | |
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| <u>EF-</u> <u>310</u> | Production optimization [DEV] | As a Production manager, I want to speed up the production so that I can reduce the time to serve the customer. | Lagrama | Nice to have | Story | EF-17 |
| | | Acceptance Criteria: * Mechanisms available to configure and optimise production processes and the supply chain in order to improve its performance | | | | |
| <u>EF-</u> <u>178</u> | EF-54 As a purchasing manager (requester) I want to receive information for the pickup arrangement | If selected is yes, the corresponding agent/company should be notified | ELDIA | Major | Sub- task | EF-177, EF-179 |
| <u>EF-</u> <u>179</u> | EF-54 As a purchasing manager (supplier) I want to receive confirmation for the pickup. | Manual Task by now. It should be done automated by agents' ecosystem and bidding process UI | ELDIA, Kleemann, agents | Major | Sub- task | EF-176, EF-178 |
| <u>EF-</u> 273 | EF-262 As a sales/purchasing manager I want to insert my company information. | * Short description * Location * Legal name * Services/products: o Service/product name o Service category o Good(s) o Certification | agents, matchmaking, online-bidding | Major | Sub- task | |
| <u>EF-</u> <u>274</u> | EF-262 As a sales/purchasing manager I want to edit my company information. | Update company/agent information | matchmaking, online-bidding | Major | Sub- task | |
| <u>EF-</u> <u>371</u> | EF-19 Aerospace- Pilot, Use Case: Camera Monitoring (IAI) | Online camera monitoring to protect defined area from unauthorized access without personal protection equipment (PPE). Without PPE no function of spray gun possible. Further Information: https://owncloud.ascora.de/index.php/apps/files/?dir=/eFactory/Work%20 Packages/WP9&fileid=1415830 | Aerospace, HAW | Major | Sub- task | EF-19 |

| <u>EF-</u> <u>370</u> | EF-19 Aerospace- Pilot, Use Case: Vacuum Monitoring | Monitoring of the vacuum forming machine, as a failure of the vacuum pump leads to defect parts that must be scrapped. | Aerospace, HAW | Major | Sub- task | EF-19 |
|--------------------------|---|--|---|-------|--------------|-------|
| | (IAI) | Further Information: https://owncloud.ascora.de/index.php/apps/files/?dir=/eFactory/Work%20 Packages/WP9&fileid=1415830 | | | | |
| <u>EF-</u> <u>369</u> | EF-19 Aerospace- Pilot, Use Case: Temperature Monitoring (IAI) | Temperature monitoring in a freezer for raw material without opening to ensure constant temperature and material quality. Further Information: https://owncloud.ascora.de/index.php/apps/files/?dir=/eFactory/Work%20 Packages/WP9&fileid=1415830 | Aerospace, HAW | Major | Sub- task | EF-19 |
| <u>EF-</u> <u>368</u> | EF-19 Aerospace- Pilot, Use Case: Temperature Monitoring (WOM) | Temperature monitoring in the production area to adjust the machine settings to maintain the machining quality. Further Information: https://owncloud.ascora.de/index.php/apps/files/?dir=/eFactory/Work%20 Packages/WP9&fileid=1415830 | Aerospace, HAW | Major | Sub- task | EF-19 |
| <u>EF-</u> <u>367</u> | EF-26 Aerospace- Pilot, Use Case: Tender for one-way pallets (3DI) | There is always a certain amount of the one-way pallets stored in the company, the idea is that the amount of the one-way pallets is controlled and after a certain amount/size an automatic request is put on the platform where third parties can place an offer for these pallets. Further Information: https://owncloud.ascora.de/index.php/apps/files/?dir=/eFactory/Work%20 Packages/WP9&fileid=1415830 | Aerospace, HAW, Tendering Service on SMECluster platform | Major | Sub- task | EF-26 |
| <u>EF-</u> <u>366</u> | EF-26 Aerospace- Pilot, Use Case: Joint Energy Purchase (3DI) | Every company holds a yearly energy contract (e.g., electricity), the intention is, the demand from several companies will be collected and offered via the platform. The best offer automatically gets an order. Further Information: https://owncloud.ascora.de/index.php/apps/files/?dir=/eFactory/Work%20 Packages/WP9&fileid=1415830 | Aerospace, HAW, Tendering Service on SMECluster platform | Major | Sub- task | EF-26 |
| <u>EF-</u> <u>365</u> | EF-26 Aerospace- Pilot, Use Case: Prepregs (3DI) | Prepregs are preimpregnated fibres and have expiry dates. Some days before expiration information is needed and the operator should have the opportunity to decide whether the material can be used for own production or could be sold to other companies for their production purposes using the tender and bid management of EFPF. | Aerospace, HAW, Tendering Service on SMECluster platform | Major | Sub- task | EF-26 |

| | | Further Information: https://owncloud.ascora.de/index.php/apps/files/?dir=/eFactory/Work%20 | | | | |
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| <u>EF-</u> 233 | EF-61 As a purchasing manager I want to select a possible supplier | Packages/WP9&fileid=1415830 Manual Task | Kleemann | Major | Sub- task | EF-232, EF-234 |
| <u>EF-</u> 232 | EF-61 As a purchasing manager I want to view products' detailed information | | Kleemann | Major | Sub- task | EF-194, EF-231, EF-233, EF-219, EF-230 |
| <u>EF-</u> 231 | EF-61 As a purchasing manager I want to view suppliers' details | If offer is rejected If contract is not agreed upon | Kleemann | Major | Sub- task | EF-192, EF-228, EF-232, EF-238, EF-239, EF-229 |
| <u>EF-</u> 234 | EF-61 As a purchasing manager I want to contact a supplier. | | Kleemann | Major | Sub- task | EF-233, EF-235 |
| <u>EF-</u> <u>236</u> | EF-61 As a supplier I want to send an accept notification and pricing terms | If invitation is accepted | Future Suppliers | Major | Sub- task | EF-198, EF-238, EF-235, EF-186, EF-223 |
| <u>EF-</u> 238 | EF-61 As a purchasing manager I want to receive a notification | | Kleemann | Major | Sub- task | EF-200, EF-225, EF-231, EF-236, EF-239, EF-237, EF-188 |
| <u>EF-</u> 222 | EF-60 As a possible customer I want to check an invitation | | Future Customers | Major | Sub- task | EF-197, EF-221, EF-224, EF-235, EF-185, EF-223 |

| <u>EF-</u> 221 | EF-60 As a sales manager I want to | | ELDIA | Major | Sub- task | EF-220, EF-222, |
|-------------------|---|---|---------------------------|-------|--------------|--------------------|
| <u>ZZ I</u> | contact a possible | | | | lask | EF-222, EF-184 |
| | customer. | | | | | |
| EF- | EF-60 As a sales | Manual Task | ELDIA | Major | Sub- | EF-221, |
| 220 | manager I want to | | | | task | EF-183, |
| | select a possible | As a sales manager (EDLIA) I want to select a possible customer based | | | | EF-219 |
| | customer. | on need, product or service characteristics and price. | | | | |
| <u>EF-</u> | EF-60 As a sales | As a sales manager (EDLIA) I want to view customer details like | ELDIA | Major | Sub- | EF-215, |
| <u>217</u> | manager I want to view | expertise, quality, price time of delivery. | | | task | EF-182, |
| | customer details and | | | | | EF-216, |
| | previous transactions | | | | | EF-219 |
| | ratings | | Future | Malar | Cul | EF-199, |
| <u>EF-</u> 237 | EF-61 As a supplier I want to send a | | Suppliers | Major | Sub- task | EF-199, EF-224, |
| 231 | rejection | | Suppliers | | lask | EF-224, EF-238, |
| | | | | | | EF-235, |
| | | | | | | EF-187 |
| EF- | EF-61 As a supplier I | | Future | Major | Sub- | EF-197, |
| 235 | want to check | | Suppliers | | task | EF-222, |
| | invitation. | | | | | EF-234, |
| | | | | | | EF-236, |
| | | | | | | EF-237, |
| | | 16 in dation is not accorded | | Malan | Quile | EF-185 |
| <u>EF-</u> 215 | EF-60 As a sales | If invitation is not accepted | ELDIA, Kleemann | Major | Sub- task | EF-217, EF-224, |
| 215 | manager I want to search for customers | As a sales manager (EDLIA) I want to search for customers via search | Kleemann | | lask | EF-224, EF-180 |
| | search for customers | engines or a published catalog. | | | | LI-100 |
| | | I want to search based on the characteristics of the product we need | | | | |
| | | along with the price. | | | | |
| EF- | EF-265 As an | Tonnage forecasting methods should be available for raw materials | miloil | Major | Sub- | |
| 272 | operation manager | related to bioenergy production | | | task | |
| | (MILOIL) I want to | | | | | |
| | explore tonnage | | | | | |
| | predictions per raw | | | | | |
| | material | Drive for a continue for a time state should be evailable for your statistic | | Malar | Cub | <u> </u> |
| <u>EF-</u> 271 | EF-265 As an operation manager | Price forecasting functionality should be available for raw materials related to bioenergy production | data-analytics, miloil | Major | Sub- task | |
| <u> 27 1</u> | (MILOIL) I want to | | | | lask | |
| | | | | I | 1 | |

| | explore price forecast | | | | | |
|--------------|----------------------------|---|-----------------|-------|------|---------|
| | per raw material | | | | | |
| EF- | EF-265 As an | Import historical data to eFactory platform for further analysis | data-analytics, | Major | Sub- | |
| 270 | Operation manager | | miloil | - | task | |
| | (MILOIL) I want to | | | | | |
| | deploy historical data | | | | | |
| | related to previous | | | | | |
| | purchases for raw | | | | | |
| | material | | | | | |
| EF- | EF-264 As an | Dashboard to monitor bins fill level | ELDIA, fill- | Major | Sub- | |
| 266 | operation manager | | level | Major | task | |
| 200 | (ELDIA) I want to | | | | lask | |
| | monitor bins fill level of | | | | | |
| | my customers. | | | | | |
| | , | vie emeil | ELDIA, | Malar | Cub | |
| <u>EF-</u> | EF-54 As a purchasing | via email. | | Major | Sub- | EF-175, |
| <u>177</u> | manager (supplier) I | | Kleemann, | | task | EF-176, |
| | want to receive a | | matchmaking | | | EF-178 |
| | selection /rejection | | | | | |
| | notification. | | | | | |
| <u>EF-</u> | EF-54 As a purchasing | As a purchasing manager (KLE) I want to select an offer by clicking on | Kleemann | Major | Sub- | EF-173, |
| <u>176</u> | manager (requester) I | the preferred offer and then send an email or UI notification to the | | | task | EF-177, |
| | want to select an offer. | successful company. | | | | EF-179 |
| | | | | | | |
| <u>EF-</u> | EF-54 As a purchasing | UI should support offers exploration | matchmaking, | Major | Sub- | |
| <u>285</u> | manager (requester) I | | online-bidding | | task | |
| | want to explore details | | | | | |
| | of the offers. | | | | | |
| EF- | EF-54 As a purchasing | A ranked list of available offers should be provided to the requester | matchmaking, | Major | Sub- | |
| 284 | manager (requester) I | agent/company | online-bidding | - | task | |
| | want to receive a | | | | | |
| | ranked list of offers. | | | | | |
| EF- | EF-54 As a purchasing | User should be able to set predefined offers or add new ones during the | ELDIA | Major | Sub- | EF-173, |
| 175 | manager (supplier) I | bidding phase | | - , - | task | EF-174, |
| | want to submit an offer | | | | | EF-177, |
| | (predefined or new). | | | | | EF-258 |
| EF- | EF-54 As a purchasing | via email or app/UI notification. | ELDIA | Major | Sub- | EF-175, |
| 174 | manager (supplier) I | | | major | task | EF-257 |
| <u> 17 -</u> | want to receive | | | | aon | |
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|--------------------------|--|--|----------------------------------|-------|--------------|--|
| | notification for a new | | | | | |
| | bidding process. | | | | | |
| <u>EF-</u> <u>281</u> | EF-259 As a purchasing manager (KLE) I want to know in a secure and trusted way that the real driver/company insert my place in order to provide an order/pickup service | Receive the pickup order's details | ELDIA, Kleemann, miloil | Major | Sub- task | |
| <u>EF-</u> <u>280</u> | EF-259 As a purchasing manager (ELDIA) I want to use an app that provides a secure handover with my customers | A mobile app should be available for a trusted handshake with my customers | ELDIA, Kleemann, miloil | Major | Sub- task | |
| <u>EF-</u> 225 | EF-60 As a sales manager I want to receive acceptance/rejection notification | | ELDIA | Major | Sub- task | EF-200, EF-202, EF-238, EF-226, EF-188, EF-223 |
| <u>EF-</u> 224 | EF-60 As a possible customer I want to send acceptance/rejection | If invitation is not accepted | Future Customers | Major | Sub- task | EF-199, EF-215, EF-222, EF-237, EF-186, EF-187, EF-223 |
| <u>EF-</u> <u>184</u> | EF-55 As a sales manager (ELDIA) I want to contact a collaborator | As a sales manager (ELDIA) I want to contact a collaborator via email, call, or SMS. | ELDIA | Major | Sub- task | EF-196, EF-221, EF-183, EF-185 |
| <u>EF-</u> 240 | EF-61 As a purchasing manager I want to establish a contract. | If offer is agreed upon | Future Suppliers, Kleemann | Major | Sub- task | EF-239 |

| EF- | EF-61 As a purchasing | Manual Task | Kleemann | Major | Sub- | EF-201, |
|------------|-------------------------|--|----------------|--------|------|--------------------|
| 239 | manager I want to | | | | task | EF-231, |
| | evaluate the offer | If offer is accepted | | | | EF-238, |
| | (price and payment | | | | | EF-240 |
| | terms) | | | | | |
| | | | | Maiar | Sub- | |
| <u>EF-</u> | EF-61 As a purchasing | | Kleemann | Major | | EF-190, |
| <u>228</u> | manager I want to | | | | task | EF-231 |
| | search for suppliers | | | | | |
| <u>EF-</u> | EF-54 As a purchasing | Available evaluation criteria | Kleemann, | Major | Sub- | EF-175, |
| 173 | manager (requester) I | Price (service, transportation, and insurance) | matchmaking | | task | EF-176, |
| | want to choose the | Delivery time | | | | EF-172 |
| | priority of the offer | Payment terms (credit) | | | | |
| | evaluation criteria. | · Business ranking | | | | |
| | | · Certificate | | | | |
| | | Delivery methods (optional) | | | | |
| | | Payment methods (optional) | | | | |
| EF- | EF-54 As a purchasing | User should be able to add info about: | ELDIA, | Minor | Sub- | EF-173 |
| | | | | WIITIO | | EF-173 |
| <u>172</u> | manager (requester) I | • Service | Kleemann, | | task | |
| | want to initialize an | Good | agents, | | | |
| | online bidding process | Criteria & priority | matchmaking, | | | |
| | | | online-bidding | | | |
| <u>EF-</u> | EF-56 As an | Manual Task | ELDIA | Minor | Sub- | EF-203 |
| 204 | operations manager | | | | task | |
| | (ELDIA) I want to | | | | | |
| | receive products | | | | | |
| EF- | EF-56 As a future | Manual Task | Future | Minor | Sub- | EF-202, |
| 203 | supplier I want to send | | Suppliers | _ | task | EF-204, |
| | products | | Cappilore | | | EF-226 |
| EF- | EF-56 As a future | If order is true | Future | Minor | Sub- | EF-201, |
| 202 | supplier I want to | | Suppliers | | task | EF-203, |
| 202 | | via amail or ann natification | Suppliers | | lask | EF-203, EF-225, |
| | receive an order | via email or app notification. | | | | |
| | | | | NA' - | | EF-227 |
| <u>EF-</u> | EF-56 Evaluate offer | If accepted | ELDIA | Minor | Sub- | EF-192, |
| <u>201</u> | (price and payment | | | | task | EF-200, |
| | terms) | The user wants to evaluate the offer based on the following criteria: | | | | EF-202, |
| | | price, quality, delivery time, certifications, ranking based on other users. | | | | EF-239, |
| | | | | | | EF-247 |
| | | The criteria should be customisable (see EF-247). | | | | |
| L | 1 | | | | | |

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| <u>EF-</u> 200 | EF-56 As an operations manager | | ELDIA | Minor | Sub- task | EF-192, EF-198, |
|-------------------|--------------------------------|---|-----------|----------|--------------|--------------------|
| | (ELDIA) I want to | | | | | EF-199, |
| | receive a notification | | | | | EF-201, |
| | | | | | | EF-225, |
| | | | | | | EF-238, |
| | | | | | | EF-188 |
| <u>EF-</u> | EF-56 As a future | If not accepted | Future | Minor | Sub- | EF-197, |
| <u>199</u> | supplier I want to send | | Suppliers | | task | EF-200, |
| | a rejection | | | | | EF-224, |
| | | | | | | EF-237, |
| | | | | | | EF-187 |
| EF- | EF-56 As a future | If accepted | Future | Minor | Sub- | EF-197, |
| <u>198</u> | supplier I want to send | | Suppliers | | task | EF-200, |
| | an accept notification | includes pricing terms | | | | EF-236, |
| | | | | | | EF-186, |
| | | | | | 0.1 | EF-223 |
| <u>EF-</u> | EF-56 As a future | Manual Task | Future | Minor | Sub- | EF-196, |
| <u>197</u> | supplier I want to | | Suppliers | | task | EF-198, |
| | check invitation | | | | | EF-199, |
| | | | | | | EF-222, EF-235, |
| | | | | | | EF-235, EF-185 |
| | EF-56 As an | | ELDIA | Minor | Sub- | EF-105 EF-195, |
| <u>EF-</u> 196 | operations manager | | ELDIA | MINO | task | EF-195, EF-197, |
| 190 | (ELDIA) I want to | | | | lask | EF-197, EF-184 |
| | contact a collaborator | | | | | LI-104 |
| EF- | EF-56 As an | Manual Task | ELDIA | Minor | Sub- | EF-194, |
| 195 | operations manager | Manual Lask | | WIITO | task | EF-194, |
| 135 | (ELDIA) I want to | | | | lask | EF-183 |
| | select a possible | | | | | LI -105 |
| | collaborator | | | | | |
| EF- | EF-56 As an | As an operations manager (ELDIA) I want to view products' detailed | ELDIA, | Minor | Sub- | EF-192, |
| 194 | operations manager | information by clicking on a specific field. | Kleemann, | Number 1 | task | EF-193, |
| <u></u> | (ELDIA) I want to view | | miloil | | | EF-195, |
| | products' detailed | Product details should include characteristics: cost and delivery time. | | | | EF-252, |
| | information | | | | | EF-232, |
| | | | | | | EF-219 |
| L | 1 | | 1 | | | |

| EF- | EF-56 As a future | By creating a new product catalog. | Future | Minor | Sub- | EF-191, |
|------------|------------------------|---|-----------|-------|------|---------|
| <u>193</u> | supplier I want to add | Up to 50 (e.g., spare parts) products should be in a catalog. | Suppliers | | task | EF-194, |
| | a product catalog | The products should be presented with the basic characteristics | | | | EF-218, |
| | | There should be a product search and filters (depending on the product) | | | | EF-230 |
| EF- | EF-56 As an | if not accepted | ELDIA | Minor | Sub- | EF-190, |
| <u>192</u> | operations manager | | | | task | EF-191, |
| | (ELDIA) I want to view | | | | | EF-194, |
| | suppliers' details and | | | | | EF-200, |
| | previous transactions | 201: if order is false | | | | EF-201, |
| | ratings | | | | | EF-231 |
| EF- | EF-56 As a future | Private (any GDPR related information, financial information etc) | Future | Minor | Sub- | EF-192, |
| 191 | supplier I want to add | Public (the product we are searching, the required certifications etc) | Suppliers | | task | EF-193, |
| | company information | | | | | EF-181, |
| | to the eFactory | | | | | EF-216, |
| | Marketplace | | | | | EF-229 |
| EF- | EF-56 As an | As an operations manager (ELDIA) I want to search for suppliers by | ELDIA | Minor | Sub- | EF-192, |
| <u>190</u> | operations manager | using a search engine. Criteria may vary depending on the product. | | | task | EF-228 |
| | (ELDIA) I want to | Price, quality, delivery time, certifications, ranking based on other users | | | | |
| | search for suppliers | (etc, criteria and weights should be customisable) | | | | |
| | | Results: top 3 offers based on the pre-defined criteria | | | | |
| <u>EF-</u> | EF-16 As a sales | | Lagrama | Minor | Sub- | EF-22 |
| <u>106</u> | manager | | | | task | |
| | (supplier/service | | | | | |
| | provider) I want to | | | | | |
| | receive a dispatch | | | | | |
| | advice. | | | | | |
| <u>EF-</u> | EF-16 As a production | | Lagrama | Minor | Sub- | EF-22 |
| <u>105</u> | manager I want to | | | | task | |
| | send a dispatch advice | | | | | |
| <u>EF-</u> | EF-16 As a sales | Existing functionality/software at user premises | Lagrama | Minor | Sub- | EF-28, |
| <u>102</u> | manager | | | | task | EF-19, |
| | (supplier/service | | | | | EF-20, |
| | provider) I want to | | | | | EF-21, |
| | process the order | | | | | EF-24, |
| | | | | | | EF-26, |
| | | | | | | EF-30, |
| | | | | | | EF-23 |

| EF- EF-16 As a production Lagrama Minor 101 manager I want to | Sub- | |
|--|------|------------------|
| | Oub | EF-28, |
| | task | EF-25, |
| place an order | | EF-26 |
| EF- EF-16 As a production Lagrama Minor | Sub- | EF-171 |
| 100 manager or a sales | task | |
| manager | laon | |
| (supplier/service | | |
| provider) I want to | | |
| negotiate conditions | | |
| | Cul | |
| | Sub- | |
| 99 manager I want to | task | |
| select product(s) to If acceptable, the order will be placed. | | |
| acquire | | |
| If not, the conditions will be negotiated with the supplier of materials or | | |
| components or service provider. | | |
| | | |
| As soon as an agreement has been reached, the order is placed. | | |
| EF- EF-16 Manufacturing Existing functionality/software at user premises Lagrama Minor | Sub- | EF-19, |
| 103 process | task | EF-21, |
| | | EF-23 |
| EF- EF-60 As a sales ELDIA Minor | Sub- | EF-203, |
| 226 manager/possible | task | EF-225, |
| customer I want to | | EF-189, |
| negotiate online for | | EF-227 |
| collaboration | | |
| EF- EF-60 As a future Minor | Sub- | EF-193, |
| 218 customer I want to add | task | EF-216, |
| a product catalog | task | EF-219, |
| a product catalog | | EF-230 |
| EF- EF-50 As a SUP Minor | Sub- | EF-230 EF-76, |
| 75 maintenance | task | EF-76, EF-74 |
| | lask | CC-/4 |
| technician (supplier) I | | |
| want to receive the | | |
| request for remote | | |
| support | | |
| EF- EF-50 As an As an operations manager (ELDIA) I want to have visualisation of the ELDIA Minor | Sub- | EF-76, |
| <u>77</u> operations manager breakdown via photo, video or it should be visualized on the company's | task | EF-74, |
| (ELDIA) I want a maintenance system. | | EF-251 |

| | visualization of the breakdown | | | | | |
|--------------------------|---|--|----------------------------|-------|--------------|---|
| <u>EF-</u> <u>74</u> | EF-50 As an operations manager (ELDIA) I want to send a request for remote support | As an operations manager (ELDIA) I want to send an email describing in brief the problem. | ELDIA | Minor | Sub- task | EF-75, EF-77, EF-245 |
| | | Process waste material at required specifications, if there is a breakdown then do this task. Request to be sent by operations manager at ELDIA and to be received by Maintenance Technician at SUP. | | | | |
| <u>EF-</u> <u>181</u> | EF-55 As a future customer I want to add company information to eFactory Marketplace | As a future customer I want to add information about history, goals, what our company does, projects, customers. | Future Customers | Minor | Sub- task | EF-191, EF-79, EF-182, EF-229, EF-249 |
| <u>EF-</u> <u>216</u> | EF-60 Add company information to eFactory Marketplace | | Future Customers | Minor | Sub- task | EF-191, EF-217, EF-218, EF-229 |
| <u>EF-</u> 219 | EF-60 As a sales manager (EDLIA) I want to view products' detailed information | | ELDIA | Minor | Sub- task | EF-194, EF-217, EF-220, EF-232, EF-218 |
| <u>EF-</u> 227 | EF-60 As a future customer I want to receive products | | Future Customers | Minor | Sub- task | EF-202, EF-226 |
| <u>EF-</u> <u>189</u> | EF-55 As a sales manager (ELDIA) and as a future customer I want to discuss collaboration | If accepted Manual Task | ELDIA, Future Customers | Minor | Sub- task | EF-226, EF-188 |
| <u>EF-</u> <u>188</u> | EF-55 As a sales manager (ELDIA) I want to receive a notification | As a sales manager (ELDIA) I want to receive a notification if the invitation was accepted or rejected via e-mail or SMS. | ELDIA | Minor | Sub- task | EF-200, EF-225, EF-238, EF-186, EF-187, EF-189 |

| EF- | EF-55 As a future | If not accepted | Future | Minor | Sub- | EF-199, |
|------------|------------------------|--|-----------|----------|------|--------------------|
| 187 | customer I want to | | Customers | | task | EF-224, |
| | send a rejection | As a future customer I want to send a rejection via email or through the | | | | EF-237, |
| | | app with 3 answers YES/Give me x hours/NO. | | | | EF-185, |
| | | | | | | EF-188 |
| EF- | EF-55 As a future | If accepted | Future | Minor | Sub- | EF-198, |
| 186 | customer I want to | | Customers | | task | EF-224, |
| 100 | send an accept | As a future customer I want to send an accept notification via email or | Customore | | laon | EF-236, |
| | notification | through the app with 3 answers YES/Give me x hours/NO | | | | EF-185, |
| | notification | | | | | EF-188, |
| | | | | | | EF-223 |
| EF- | EF-60 Send Accept | If invitation is accepted | Future | Minor | Sub- | EF-198, |
| <u>223</u> | Notification and place | | Customers | IVIIIIOI | task | EF-190, EF-222, |
| 223 | | | Customers | | lask | EF-222, EF-224, |
| | order | | | | | |
| | | | | | | EF-225, |
| | | | | | | EF-236, |
| | | | | | | EF-186 |
| <u>EF-</u> | EF-55 As a future | Manual Task | Future | Minor | Sub- | EF-197, |
| <u>185</u> | customer I want to | | Customers | | task | EF-222, |
| | check an invitation | | | | | EF-184, |
| | | | | | | EF-235, |
| | | | | | | EF-186, |
| | | | | | | EF-187 |
| <u>EF-</u> | EF-55 As a sales | From the top 3 options, As a sales manager (ELDIA) I want to view the | ELDIA | Minor | Sub- | EF-195, |
| <u>183</u> | manager (ELDIA) I | collaborators' profile and then choose the preferred one. | | | task | EF-220, |
| | want to select a | | | | | EF-184, |
| | possible collaborator | | | | | EF-182 |
| EF- | EF-55 As a sales | As a sales manager (ELDIA) I want to view 3-5 previous transactions | ELDIA | Minor | Sub- | EF-217, |
| 182 | manager (ELDIA) I | ratings. The number should be customisable. | | | task | EF-180, |
| | want to view | | | | | EF-181, |
| | collaborators details | | | | | EF-183 |
| | and previous | | | | | |
| | transactions rating | | | | | |
| EF- | EF-55 As a sales | As a sales manager (ELDIA) I want to search for collaborators based on | ELDIA | Minor | Sub- | EF-215, |
| 180 | manager (ELDIA) I | the following criteria: price, delivery time, certifications, ranking based on | | | task | EF-182, |
| | want to search for | other users. | | | | EF-247, |
| | collaborators | | | | | EF-248 |
| EF- | EF-61 As a future | | Future | Minor | Sub- | EF-193, |
| 230 | supplier I want to add | | Suppliers | | task | EF-232, |
| | | | 1 | 1 | | 0_, |

| | | - | | | | |
|------------------|-------------------------|---|-------------|----------|------|-------------------|
| | a product/service | | | | | EF-218, |
| | catalog | | | | | EF-229 |
| EF- | EF-61 As a future | | Future | Minor | Sub- | EF-191, |
| 229 | supplier I want to add | | Suppliers | | task | EF-231, |
| | company information | | | | | EF-181, |
| | to the eFactory | | | | | EF-216, |
| | Marketplace | | | | | EF-230 |
| EF- | EF-53 As a purchasing | As a purchasing manager (ELDIA) I want to receive an invitation for | ELDIA | Minor | Sub- | EF-82, |
| 83 | manager (ELDIA) I | offers submission via email or app notification. | | WIIITO | task | EF-255, |
| 00 | want to receive an | | | | lask | EF-256 |
| | invitation for offers | | | | | LI 200 |
| | submission | | | | | |
| EF- | EF-53 As a non- | As a non-hazardous materials manager (KLE) I want to ask the supplier's | Kleemann | Minor | Sub- | EF-81, |
| 82 | hazardous materials | personnel responsible for drafting offers for offers via email or app. | Rieemann | NIII IOI | task | EF-83 |
| 02 | manager (KLE) I want | | | | lask | LI -03 |
| | to ask for offers | | | | | |
| EF- | EF-53 As a non- | As a non-hazardous materials manager (KLE) I want to view the | Kleemann | Minor | Sub- | EF-80, |
| <u>EF-</u> 81 | hazardous materials | company profiles' evaluation on a graph or in a ranking table. | Rieemann | WIITIO | task | EF-80, EF-82, |
| <u>01</u> | manager (KLE) I want | company promes evaluation on a graph of in a ranking table. | | | lask | EF-02, EF-254 |
| | to view the company | | | | | EF-204 |
| | profiles' evaluation | | | | | |
| | EF-53 As a non- | As a non-hazardous materials manager (KLE) I want to request available | Kleemann, | Minor | Sub- | EF-79, |
| <u>EF-</u> 78 | hazardous materials | | | WINO | | EF-79, EF-80, |
| <u>/0</u> | | waste management companies. | matchmaking | | task | |
| | manager (KLE) I want | | | | | EF-253, EF-244 |
| | to request available | | | | | CF-244 |
| | waste management | | | | | |
| | companies | As a new hororday a motorial manager (KLE) I want to view the | Kleemenn | Minor | Sub- | |
| <u>EF-</u> | EF-53 As a non- | As a non-hazardous materials manager (KLE) I want to view the | Kleemann | WINOF | | EF-78, |
| <u>80</u> | hazardous materials | following details about available waste management suppliers: Pick-up | | | task | EF-81 |
| | manager (KLE) I want | time, price, payment method and certifications. | | | | |
| | to view details of | | | | | |
| | available waste | | | | | |
| | management suppliers | | | N.4' | | FF 010 |
| <u>EF-</u> | EF-59 As a managing | | ELDIA, | Minor | Sub- | EF-210 |
| <u>209</u> | director (ELDIA) I want | | matchmaking | | task | |
| | to monitor price | | | | | |
| | predictions based on | | | | | |
| | historical data | | | | | |

| | | | T • | T | | |
|------------|-------------------------|--|------------|-------|------|----------|
| <u>EF-</u> | EF-22 As a sales | Existing functionality/software at user premises | Lagrama | Minor | Sub- | |
| <u>161</u> | manager | | | | task | |
| | (supplier/service | | | | | |
| | provider) I want to | | | | | |
| | produce goods | | | | | |
| <u>EF-</u> | EF-59 As a (future) | | Customer, | Minor | Sub- | EF-211, |
| <u>212</u> | supplier/customer I | | Future | | task | EF-213 |
| | want to provide | | Customers, | | | |
| | overview of market | | Future | | | |
| | opportunities | | Suppliers, | | | |
| | | | Supplier | | | |
| EF- | EF-59 As a (future) | | Customer, | Minor | Sub- | EF-210, |
| 211 | supplier/customer I | | Future | | task | EF-212 |
| | want to have historical | | Customers, | | | |
| | data analysis and | | Future | | | |
| | predictions | | Suppliers, | | | |
| | | | Supplier | | | |
| EF- | EF-59 As a managing | | ELDIA | Minor | Sub- | EF-213 |
| 214 | director (ELDIA) I want | | | _ | task | _ |
| | to select the most | | | | | |
| | suitable one / final | | | | | |
| | decision | | | | | |
| EF- | EF-59 As a managing | | ELDIA | Minor | Sub- | EF-212, |
| 213 | director (ELDIA) I want | | | | task | EF-214 |
| | to monitor market | | | | | |
| | opportunities | | | | | |
| EF- | EF-59 As a managing | | ELDIA | Minor | Sub- | EF-209, |
| 210 | director (ELDIA) I want | | | | task | EF-211 |
| <u> </u> | to request an overview | | | | | |
| | of market opportunities | | | | | |
| EF- | EF-53 As a purchasing | | ELDIA | Minor | Sub- | EF-78, |
| 79 | manager (ELDIA) I | | | | task | EF-181 |
| <u> </u> | want to add company | | | | | |
| | information | | | | | |
| EF- | EF-50 As a | As a maintenance technician (supplier) I want to interact with the | SUP | Minor | Sub- | EF-75, |
| 76 | maintenance | platform via video (with technicians) or photos. | | | task | EF-77 |
| <u></u> | technician (supplier) I | | | | | |
| | want to perform | If there is availability, perform task. | | | | |
| | remote maintenance | | | | | |
| L | | | 1 | 1 | 1 | <u> </u> |

| EF- 73 base on the fill level is over 80% (=almost full), notify otherwise monitor fill level. Kleemann Minor Sub- task EF-72, EF-73, EF-74, | | | | | | | |
|--|------------|---------------------------|--|-------------|-------|------|--------|
| manager I want to get a collection notification a collection notification a collection notification a collection notification a collection notification a collection notification i Logistics department manager. The user wants to be notified: * Revicing specialist * Mainternance supervisor * Logistics department manager. EF-243 EF-243 EF- 22 EF-49 As a non- manager I want to monitor fill level they level EF-216 Sub- task EF-71, task EF-71, task EF- 71 EF-49 As a non- hazardous materials manager I want to access fill level ive dates shall be in real time. Kleemann, matchmaking Minor Sub- task EF-72 EF- 10 EF-30 As a purchasing manager I want to access fill level ive dates services I i want to negotiate delivery terms Current fill level data shall include weight, height, percentage of fill. Kleemann Minor Sub- task EF-72 EF- 10 EF-30 As a purchasing manager (Provider of logistics services I i want to negotiate delivery terms The invitation includes supply terms. Lagrama Minor Sub- task EF-100 EF- 130 EF-25 As a purchasing manager I want to send a tender invitation to selected supplers A product request includes product specifications and terms. Lagrama Minor Sub- task Sub- task EF- 26- 27 EF-27 As a purchasing manager I want to alurch the internal productin request A product request includes prod | <u>EF-</u> | | If fill level is over 80% (=almost full), notify otherwise monitor fill level. | Kleemann | Minor | | |
| a collection notification The following persons should be notified: * Recycling specialist * Environmental Management specialist * Logistics department manager. Minor Sub- task EF- 1 12 EF-49 As a non- montor fill level Bir sfill level should be represented visually and in numbers. It should be in real time. Kleemann, matchmaking Minor Sub- task EF-71, EF-73, EF-73, EF-743 as a non- task Current fill level data shall include weight, height, percentage of fill. Kleemann Minor Sub- task EF-72 I1 12 hazardous materials manager I want to access fill level live data Current fill level data shall include weight, height, percentage of fill. Kleemann Minor Sub- task EF-72 I21 11 12 manager (Provider of logistics services) I want to negotiate send a tender invitation to selected suppliers The invitation includes supply terms. Lagrama Minor Sub- task I30 130 130 manager I want to publish a product request A product request includes product specifications and terms. Lagrama Minor Sub- task EF- EF-27 As a managing 130 A product request includes product spec | <u>73</u> | | | | | task | |
| Image: Legendiation of the constraint of the invitation includes supply terms.The following persons should be notified: * Recycling specialist * Environmental Management specialist * Maintenance supervisor * Logistics department manager.Kleemann, matchmakingMinor taskSub- EF-7, EF-7, EF-7,3 EF-7,3 EF-7,3 EF-7,4EF-EF-49 As a non- monitor fill levelBin's fill level should be represented visually and in numbers. manager I want to monitor fill levelKleemann, matchmakingMinorSub- EF-7,3 EF-7,3 EF-7,4EF-EF-49 As a non- manager I want to access fill level live dataCurrent fill level data shall include weight, height, percentage of fill.Kleemann, matchmakingMinorSub- taskEF-72 taskEF-EF-30 As a purchasing manager (Provider of logistics services) I want to negotiate delivery termsLagramaMinorSub- taskEF-100 taskEF-EF-26 As a purchasing manager I want to send a tender invitation to selected suppliersThe invitation includes supply terms.LagramaMinorSub- taskEF-EF-27 As a purchasing manager I want to publish a product requestA product request includes product specifications and terms.LagramaMinorSub- taskEF-EF-27 As a managing 154Order (+ product specifications)LagramaMinorSub- taskEF-EF-27 As a monaging 154Order (+ product specifications)LagramaMinorSub- task | | | The user wants to be notified by e-mail or SMS. | | | | EF-243 |
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| 137 manager (Supplier/Service Provider) I want to task | | | | | | |
| 137 manager (Supplier/Service Provider) I want to task | EF- | EF-26 As a sales | Lagrama | Minor | | |
| Provider) I want to | <u>137</u> | | | | task | |
| | | | | | | |
| submit a bid | | | | | | |
| | | submit a bid | | | | |

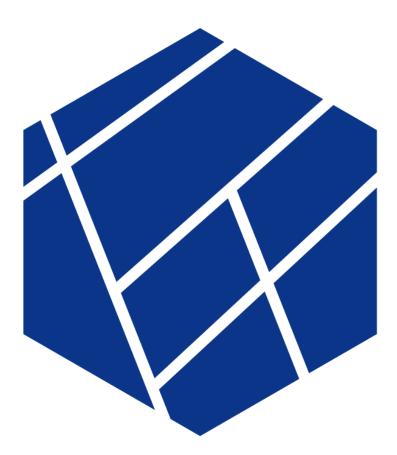
| EF- | EF-26 As a purchasing | | Lagrama | Minor | Sub- | |
|-------------------|-------------------------|---|---------|-------|------|-----------------|
| <u>135</u> | manager I want to | | | | task | |
| | publish a tender | | | | | |
| <u>EF-</u> | EF-25 As a purchasing | | Lagrama | Minor | Sub- | |
| <u>133</u> | manager I want to | | | | task | |
| | notify a rejection | | | | | |
| <u>EF-</u> | EF-25 As a sales | | Lagrama | Minor | Sub- | |
| <u>132</u> | manager | | | | task | |
| | (supplier/service | | | | | |
| | provider) I want to | | | | | |
| | send an offer for | | | | | |
| | supplying | | | | | |
| <u>EF-</u> 131 | EF-25 As a sales | | Lagrama | Minor | Sub- | |
| <u>131</u> | manager | | | | task | |
| | (supplier/service | | | | | |
| | provider) I want to | | | | | |
| | have a visualisation of | | | | | |
| | the request | | | | | |
| <u>EF-</u> | EF-24 As a sales | | Lagrama | Minor | Sub- | |
| <u>165</u> | manager (Provider of | | | | task | |
| | logistics services) I | | | | | |
| | want to report | | | | | |
| | incidence | | | | | == = 1 |
| <u>EF-</u> | EF-20 As a production | | Lagrama | Minor | Sub- | EF-24, |
| <u>160</u> | manager I want to | | | | task | EF-23 |
| | update the delivery | | | | | |
| | status and schedule | | 1 | NA: | Curk | |
| <u>EF-</u> | EF-20 As a production | | Lagrama | Minor | Sub- | EF-23 |
| <u>159</u> | manager I want to | | | | task | |
| | monitor the delivery | | | | | |
| | process | Delivery itema | | Miner | Cub | |
| <u>EF-</u> | EF-20 As a production | Delivery items | Lagrama | Minor | Sub- | EF-24, |
| <u>158</u> | manager I want to | | | | task | EF-30, |
| | launch the delivery | | | | | EF-23 |
| | order | As a production manager buyant to accur the bistory often the production is | | Miner | Cub | |
| <u>EF-</u> | EF-19 As a production | As a production manager I want to save the history after the production is | Lagrama | Minor | Sub- | EF-20, |
| <u>153</u> | manager I want to | completed. | | | task | EF-21, EF-23 |
| | save the history | | | | | EF-23 |

| EF- | EF-19 As a production | | Lagrama | Minor | Sub- | EF-21, |
|-----|---------------------------------------|---------------------|------------|-------|------|---------|
| 152 | manager I want to | | | | task | EF-23 |
| | update production | | | | | |
| | status and schedule | | | | | |
| EF- | EF-19 As a production | | Lagrama | Minor | Sub- | EF-21, |
| 151 | manager I want to | | Ū | | task | EF-23 |
| | monitor the production | | | | | |
| | process | | | | | |
| EF- | EF-17 As a production | | Lagrama | Minor | Sub- | |
| 147 | manager I want to set | | J J | | task | |
| | a production process | | | | | |
| | as an internal process | | | | | |
| EF- | EF-17 As a production | | Lagrama | Minor | Sub- | |
| 146 | manager I want to | | J | | task | |
| | assign a partner to | | | | | |
| | process | | | | | |
| EF- | EF-17 As a production | | Lagrama | Minor | Sub- | |
| 144 | manager I want to | | | _ | task | |
| | search for production | | | | | |
| | partners | | | | | |
| EF- | EF-17 As a production | | Lagrama | Minor | Sub- | |
| 143 | manager I want to | | | _ | task | |
| | define production | | | | | |
| | processes | | | | | |
| EF- | EF-17 As a production | | Lagrama | Minor | Sub- | |
| 142 | manager I want to | | | _ | task | |
| | select a product or a | | | | | |
| | product part | | | | | |
| EF- | EF-58 Negotiate | | ELDIA, SUP | Minor | Sub- | EF-205, |
| 206 | contract terms | | , | | task | EF-207, |
| | | | | | | EF-208 |
| EF- | EF-58 Process order | If terms are agreed | SUP | Minor | Sub- | EF-206 |
| 208 | | | | - | task | |
| EF- | EF-58 Place order | If terms are agreed | ELDIA | Minor | Sub- | EF-206 |
| 207 | | | | - | task | ' |
| EF- | EF-58 Select | | ELDIA | Minor | Sub- | EF-206 |
| 205 | equipment to purchase | | | | task | |
| EF- | EF-29 Access to | | Lagrama | Minor | Sub- | |
| 124 | catalogue | | 5 | - | task | |
| | · · · · · · · · · · · · · · · · · · · | | | | | · |

| · · · · · · · · · · · · · · · · · · · | 1 | | | | | |
|---------------------------------------|---------------------|--|---------|-------|------|--|
| <u>EF-</u> | EF-29 Introduce | Introduce product/service catalogue data (pictures, certifications, | Lagrama | Minor | Sub- | |
| <u>123</u> | product/service | technical specifications, specific properties, price, documentation) | | | task | |
| | catalogue data | | | | | |
| EF- | EF-28 Group RFQs | | Lagrama | Minor | Sub- | |
| <u>116</u> | | | - | | task | |
| EF- | EF-28 Generate | | Lagrama | Minor | Sub- | |
| 114 | quotation | | - | | task | |
| EF- | EF-28 Send request | Send request for quotation (product specifications) | Lagrama | Minor | Sub- | |
| 113 | for quotation | | Ū, | | task | |
| EF- | EF-27 Apply filters | | Lagrama | Minor | Sub- | |
| 112 | | | Ū, | | task | |
| EF- | EF-27 Product data | | Lagrama | Minor | Sub- | |
| 111 | | | Ū, | | task | |
| EF- | EF-27 Get results | | Lagrama | Minor | Sub- | |
| 110 | | | Ū, | | task | |
| EF- | EF-27 Explorative | | Lagrama | Minor | Sub- | |
| 109 | search | | Ŭ | | task | |
| EF- | EF-27 Task-based | | Lagrama | Minor | Sub- | |
| 108 | search | | Ŭ | | task | |
| EF- | EF-27 Search for | Search for product / service (Product information) | Lagrama | Minor | Sub- | |
| 107 | product / service | | Ŭ | | task | |

Annex A: History

| Document History | |
|------------------|---|
| | V0.1: |
| | Document set-up and draft Table of Contents |
| Versions | V0.9: |
| | First version for review |
| | |
| Contributions | all partners |



European Factory Platform

www.efpf.org