Cloud Collaborative Manufacturing Networks (C2NET)

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Funded by:

www.c2net-project.eu

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Project Call:
H2020-FoF-1-2014 Process Optimisation of Manufacturing Assets

Budget: 7,126,494 €
Start: January 1st 2015
Duration: 36 months

OBJECTIVES

1. to master complexity and data security of the supply network
2. to store and share product, process and logistic data
3. to optimize the manufacturing assets by the collaborative computation of production plans
4. to optimize the logistics assets through efficient delivery plans and
5. to render the complete set of supply chain management information on any digital mobile device (PC, tablets, smartphones) enabling them to monitor, visualize, control, share and collaborate.
WHAT IS C2NET?

The goal of C2NET Project is the creation of cloud-enabled tools for supporting the SMEs supply network optimization of manufacturing and logistic assets based on collaborative demand, production and delivery plans.

RESULTS

1. The Data Collection Framework (C2NET DCF) to provide software components and hardware devices for IoT-based continuous data collection from supply network resources. This supports the collaborative manufacturing functionality while taking advantage of Cloud environments, which can enable solutions that are highly scalable, available and fault tolerant.

2. The Optimizer (C2NET OPT) to support manufacturing networks in the optimization of manufacturing and logistics assets by the collaborative computation of production plans, replenishment plans and delivery plans in order to achieve shorter delivery times, better speed and consistency of schedules, higher use of productive resources and energy savings.

3. The Collaboration Tools (C2NET COT) for providing the Collaborative Manufacturing Network Platform with a set of tools in charge of managing the agility of the collaborative processes.

4. The Cloud Platform (C2NET CPL) to integrate the data module, the optimizers and the collaborative tools in the cloud and allow the access to process optimization resources to all the participants in the value chain to support their decisions and process enhancement. It will provide the base for the integration of the different modules.

VALUE CHAIN

AUTOMOTIVE USE CASE
- Sharing Components Stocks
- Sharing Manufacturing Assets
- Sharing Logistics Assets

METALWORKING SMEs NETWORK USE CASE
- Sharing Manufacturing Assets
- Sharing Logistics Assets
- Sharing Component Stocks

DERMO-COSMETICS USE CASE
- Sharing Distribution Assets
- Sharing Logistics Assets
- Sharing Product Stocks

OEM USE CASE
- Sharing Manufacturing Assets
- Sharing Logistics Assets
- Sharing Component Stocks

C2NET

OPT

DCF

COT

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