



# zeMAC3

## zenon Maintenance Agent with Context-aware Coordination and Communication (C3) Engine

### CHALLENGE

Maintenance management is one of the key issues to keep industrial equipment running at its highest level of quality, effectiveness and robustness. Production processes are becoming more and more complex – especially in high-wage countries – with higher degrees of automation and fewer personnel in production. However, human action is indispensable, particularly when it comes to the continuous optimization of production equipment and ensuring proper maintenance to guarantee stable production without equipment stops.

The trend is that those people who are involved in production optimization and maintenance are required to operate more and more different machinery parts and need to be increasingly flexible.

### SOLUTION

zeMAC3 will help to plan and schedule maintenance tasks effectively and will assist in automatically choosing the right personnel for the open tasks, following an algorithm, which takes the availability and the competence of the individual workers into account.

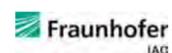
The innovative approach of zeMAC3 is to gather metadata from each individual's knowledge and competencies, current location and tasks as well as information about the context of use, including the physical environment, the current overall production status and organizational and social preconditions. The project's outcome is intended to be applicable to quite a number of different industries. The developed technological solutions will be generic in nature while covering typical requirements from several industries such as automotive production, food & beverage, pharmaceutical and energy. This will ensure a high potential for economic exploitation of the developed technologies in future software products of COPA-DATA, the coordinator of the zeMAC3 consortium.

In the course of the project, a working prototype shall be developed which, upon completion of the project, shall be transformed into a marketable product as an additional module to COPA-DATA's zenon Product Family.

#### PROJECT OVERVIEW

##### INSTITUTION

Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.  
Prozesstechnik Kropf Gesellschaft für angewandte Prozessleittechnik mbH  
Ing. Punzenberger COPA-DATA GmbH



##### TYPE OF PROJECT

Research project  
FFG EUREKA  
Period: 2013-2015

##### WANT TO KNOW MORE

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