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## VDMA OPC Machine Vision: OPC UA Demonstrator introduced

### Working group consisting of industry and associations develops interoperable and manufacturer independent OPC UA demonstrator

Frankfurt, 15 November 2019 - As part of a joint project, members of the VDMA OPC Machine Vision Initiative together with the OPC UA Foundation, have developed a hardware demonstrator that includes the practical implementation of the "OPC UA for Machine Vision (OPC MV) Part 1 Companion Specification".

"From the point of view of automation technology and factory-IT, this specification represents enormous progress. Image processing systems are among the most complex components in machine building. Their integration is considerably simplified by manufacturer independent uniform methods for control and data administration", says Dr.-Ing. Peter Waszkewitz, Software Project Manager, Robert Bosch Manufacturing Solutions GmbH and member of the core working group.

OPC MV Part 1 describes an abstraction of the generic image processing system, i.e. a representation of a so-called "digital twin" of the system. It handles the administration of recipes, configurations and results in a standardized way, while the contents remain manufacturer-specific and are treated as a black box. The demonstrator establishes an infrastructure layer that enables a simplified and uniform integration of all possible image processing systems into higher-level IT production systems (PLC, SCADA, MES, ERP, Cloud, ...). It demonstrates the generalized control of a vision system and abstracts the necessary behavior via the concept of a "state machine".

Partners of the project are:

ASENTICS GmbH & Co. KG, PEER Group GmbH, Robert Bosch Manufacturing Solutions GmbH, VITRONIC Dr.-Ing. Stein Bildverarbeitungssysteme GmbH and VDMA Robotics + Automation.

Please visit us at the SPS 2019 in Nuremberg at the OPC Foundation booth (in Hall 5 booth 140) from 26.11.2019 to 28.11.2019.

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**Robotics + Automation Association**  
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Wilfried Eberhardt  
Managing Director:  
Patrick Schwarzkopf

President:  
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Executive Director:  
Thilo Brodtmann

### About VDMA Machine Vision

The VDMA represents over 3,200 mainly small and medium size member companies in the engineering industry, making it one of the largest and most important industrial associations in Europe. As a part of the VDMA Robotics + Automation Association, VDMA Machine Vision unites more than 115 members: companies offering machine vision systems and components. The objective of this industry-driven platform is to support the machine vision sector through a wide spectrum of activities and services. Current activities include statistics and the annual VDMA Machine Vision Market Survey, marketing services, public relations, trade fair policy, future radar, networking events and conferences. Find out more about VDMA Machine Vision at: [www.vdma.com/vision](http://www.vdma.com/vision).

The **OPC Foundation**, Scottsdale, AZ, USA, is the globally leading community for interoperability solutions based on the OPC communication specifications. OPC is an interoperability standard for the secure, reliable and platform-independent exchange of information. By defining an interface between client and server or between server and server varying use-cases can be covered. OPC technology is extensively used for integrating information in industrial automation and for facilitating data transfer from the smallest sensor into enterprise IT. The objective of the OPC certification program is to guarantee immediate operational readiness of OPC products in real-life applications. With over 700 member companies the OPC Foundation promotes globally training, awareness and adoption of the OPC specifications. Find out more about OPC Foundation: <https://opcfoundation.org/>

**You can download the specification from any of the links below:**

<https://ibv.vdma.org/en/viewer/-/v2article/render/37795049>

<https://opcfoundation.org/developer-tools/specifications-opc-ua-information-models/opc-unified-architecture-for-machine-vision/>

Do you have any questions? Suprateek Banerjee, VDMA Machine Vision, will be happy to answer them: Phone +49 69 6603 1977, [suprateek.banerjee@vdma.org](mailto:suprateek.banerjee@vdma.org).

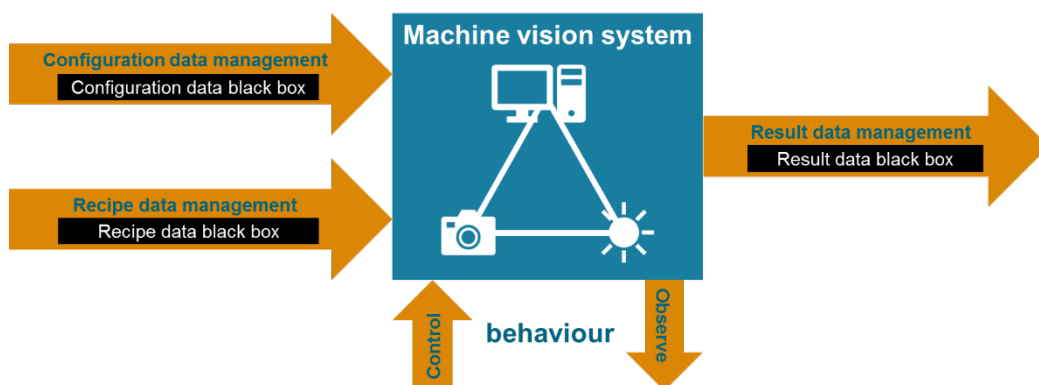


Figure 1 The 'black box' approach used by OPC Machine Vision