Project People

Participants

ADIENT · cenit · duwe 3d · ELYSIUM · gom · HEXAGON · MAPVISION · Q-DAS · WENZEL · ZEISS

Contact

Chairman Torsten Schmied Torsten.Schmied@adient.com
Coordinator Felix Klier Felix.Klier@PROSTEP.com
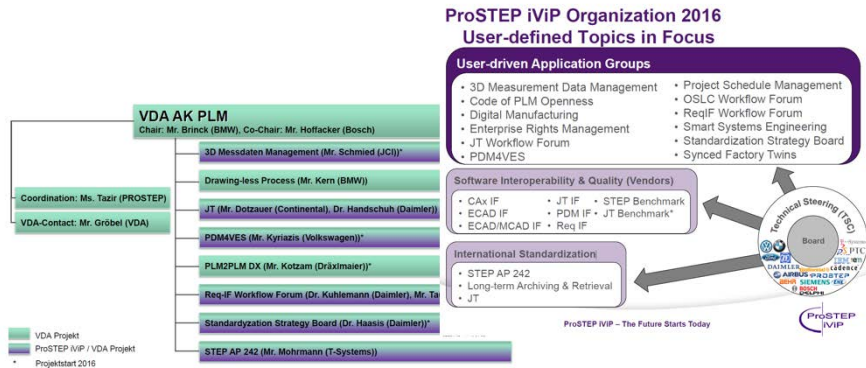
3D Measurement Data Management

A variety of measurement methods and equipment are used in the automotive industry today to ensure a specified level of product quality. These differ in functional properties such as way in which data is collected, the way in which measurement data is processed and in the level of integration with manufacturing equipment. The desire for a standardized interface for the flexible design of the measurement process, with its numerous participants and objects, is therefore a logical consequence. In addition to the product model, there is also a need for information about the test rigs and tools as well, as the relevant test and tolerance data. The objective of the PSI/VDA 3D Measurement Data Management project group is to develop a suitable interface specification based on InspectionPlusPlus Data Management Services (I++ DMS) and establish it in industry.

DMS = Data Management Services
DME = Dimensional Measurement Equipment
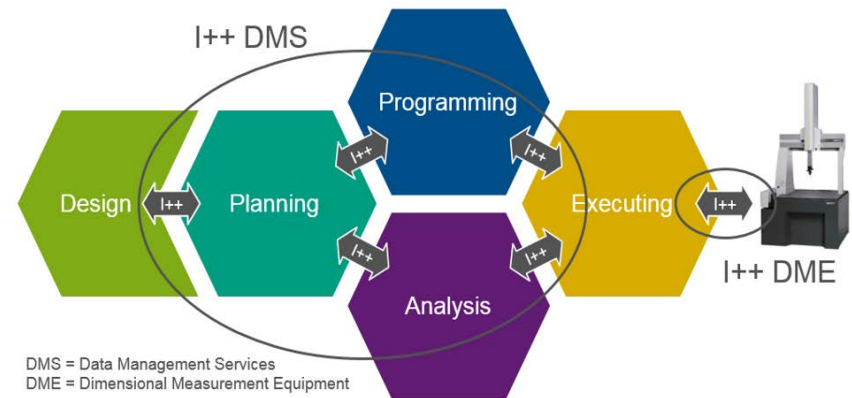
Project Mission

The technical drawing, which is a key element within this process, gets replaced by drawing-less concepts, being frequently referenced as 3D-Master. The measurement process needs to get ready for these new technologies. The lack of standards at OEMs and suppliers leads to redundant processes creating increasing costs.

Project Goal

The availability of one single interface format for all information required within the measurement process would enable the OEMs and suppliers to implement highly automated processes based on a common data model. Enable a central data-hub and modern IT architecture as an option.

Project Organization

prostep ivip together with the VDA are running two complementary projects on 3D Measurement Data Management. Their aim is to create a recommended interface definition to be used within the measurement process. They evaluate the available I++ DMS definition and drive the development of future I++ DMS releases. The 3D Measurement Data Management Workflow Forum is intended to host all activities of the user community.