

Public SSB Fact Sheet: Inspection ++ DMS (I++ DMS)

Projects

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No headings included in this document

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Additional Resources

Short description/ Transmitted information	<ul style="list-style-type: none"> • Complete 3D product description (3D Master) is a key enabler • I++ DMS facilitates efficient measurement data management for the 3D Master-based digital process chain
Normative document	<ul style="list-style-type: none"> • -
Version / Release state	<ul style="list-style-type: none"> • -
Release date	<ul style="list-style-type: none"> • -
Application scope	<ul style="list-style-type: none"> • Collaboration • Data Exchange • Quality Data Service Provision
Goals	<ul style="list-style-type: none"> • Consistent quality Statements • Robust change management • Early detection of risks before they become problems
Promoting bodies	<ul style="list-style-type: none"> • VDA • prostep ivip
Type	<ul style="list-style-type: none"> • VDA Recommendation • prostep ivip Recommendation
IT Standard classification	<ul style="list-style-type: none"> • Interoperability Standard • Process Standard
Data format	<ul style="list-style-type: none"> • API (XML)
Additional available resources	<ul style="list-style-type: none"> • Use Cases • Guidelines • Best Practice Examples • Scientific • Communication Paper
Relevant prostep ivip project groups	3D Messdatenmanagement Workflow Forum (prostep.org) ¹

¹ <https://www.prostep.org/projekte/3d-messdatenmanagement-workflow-forum/>

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Additional Resources

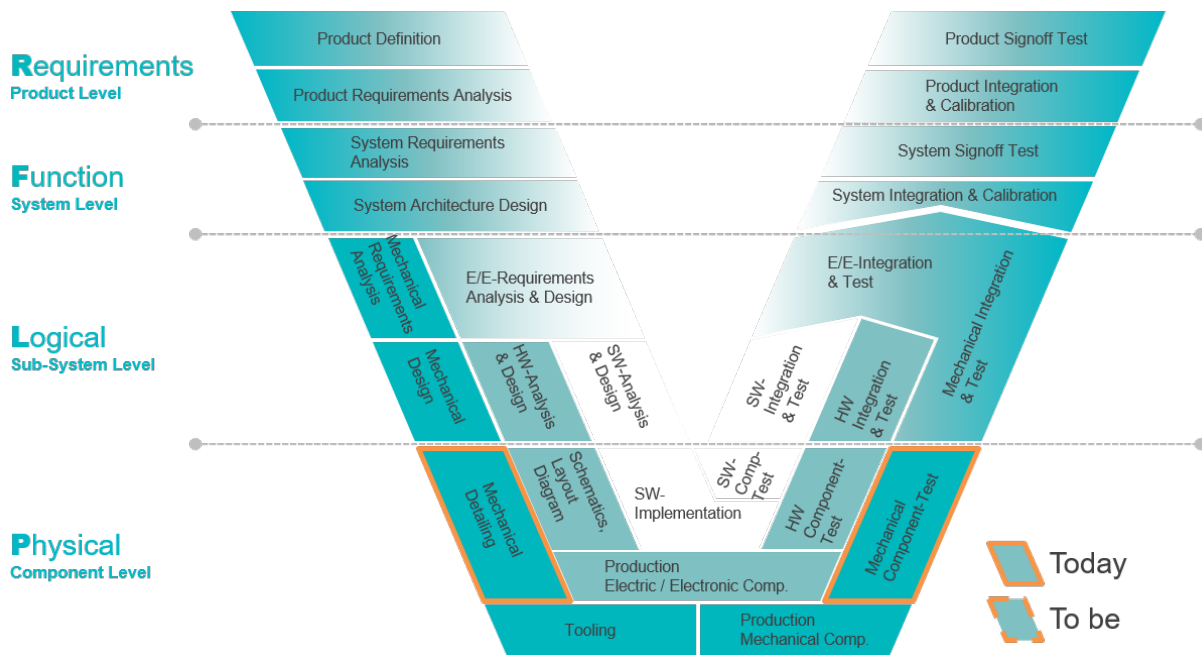
I++ DMS (Dimensional Measurement Services) goals in General:

- Facilitate automated processes and provide services for the exchange of measurement information based on a common data model
- I++ DMS interfaces are of use between participating partners (OEM’s, suppliers) and across the process loop composed from process steps like design, planning, programming, executing and analysis

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Additional Resources

Positioning of I++ DMS in V-Model



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Additional Resources

- Add dimensional inspection and quality-assurance (QA) perspective to model-based process description
- Defines dimensional QA domain-specific terminology and associations between QA relevant model entities
- Describes a complete & coherent description of nominal and actual dimensional data, together with data regarding planning, programming and inspection process steps
- The model can be used in conjunction with MBSE or 3D Master based data models or standalone

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Additional Resources

- Acceptance by end-users
- Necessary investment in provisions regarding digital process chain and infrastructure (SOAP). This risk can be mitigated by deriving I++ DMS data from existing 2D representations in an automated way
- The standard has currently a high level of acceptance among system providers, but is only actively used by one OEM (BMW).
- Mercedes Benz AG has evaluated the deployment, but will only use the standard if its benefits are in better proportion to the effort required to switch to a service-based infrastructure.
 - This added value is expected from the expansion of the standard by the subject measurement strategies.

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Additional Resources

Datei	Geändert
Fact Sheet_ Inspection ++ DMS (I++ DMS).pdf ²	Apr. 06, 2023 by Peter Tabbert ³
Positioning of I++ DMS in V-Model.png ⁴	Apr. 06, 2023 by Peter Tabbert ⁵
V-Model.PNG ⁶	Apr. 06, 2023 by Peter Tabbert ⁷

² https://intranet.prostep.org/download/attachments/110329895/Fact%20Sheet_%20Inspection%20%2B%2B%20DMS%20%28I%2B%2B%20DMS%29.pdf?api=v2

³ <https://intranet.prostep.org/display/~petertabbert>

⁴ <https://intranet.prostep.org/download/attachments/110329895/Positioning%20of%20I%2B%2B%20DMS%20in%20V-Model.png?api=v2>

⁵ <https://intranet.prostep.org/display/~petertabbert>

⁶ <https://intranet.prostep.org/download/attachments/110329895/V-Model.PNG?api=v2>

⁷ <https://intranet.prostep.org/display/~petertabbert>