

Quality information
interoperability throughout the
digital manufacturing enterprise

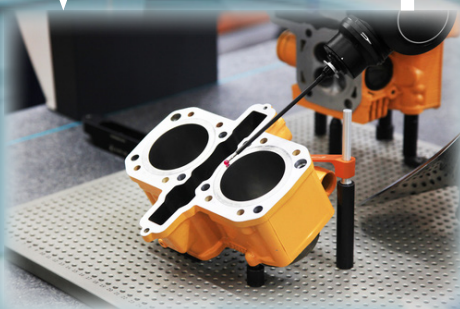


Model-Based
Definition
(MBD)



Inspect

Feedback



QIF is a worldwide accepted metrology standard that allows interoperability between already-in-place software and equipment, offering persistent traceability back to the CAD model

The QIF Standard



An Integrated Model
for
Manufacturing
Quality Information
developed & maintained
by
the DMSC

Digital Metrology
Standards Consortium **DMSC**

The *Digital Metrology Standards Consortium*

*Collaboratively building
standards to benefit the
digital metrology
community*

The DMSC mission
is to develop and promote
QIF and other metrology standards

DMSC, Inc
3245 Latta Road
No. 16595
Rochester, NY 14616 USA
www.qifstandards.org



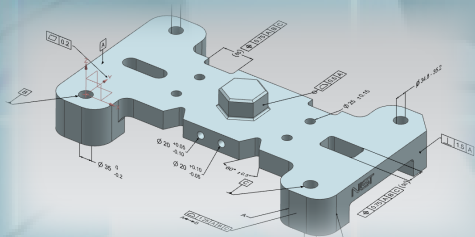
Who is the DMSC?

The **Digital Metrology Standards Consortium** (DMSC, Inc) is a non-profit member-funded organization that has a charter to develop interoperability standards and quality data frameworks for the manufacturing field of digital metrology.

The Dimensional Measuring Interface Standard (DMIS) and the Quality Information Framework (QIF) are two such standards for which the consortium has oversight of development and support responsibility. Additionally, DMSC has other new metrology standards currently under development as a collaborative effort by DMSC member companies and like-minded industrial standards organizations.

The DMSC is an ANSI (American National Standards Institute) Accredited Standards Developing Organization, as well as an A-Liaison to ISO. In August 2020, DMSC's flagship standard, QIF, was harvested by the International Standards Organization (ISO) and elevated to ISO 23952:2020.

As advanced manufacturing companies move towards Model-Based Enterprise (MBE), QIF adoption has become an important tool supporting the digital thread concept for engineering applications ranging from product design through manufacturing to quality inspection.



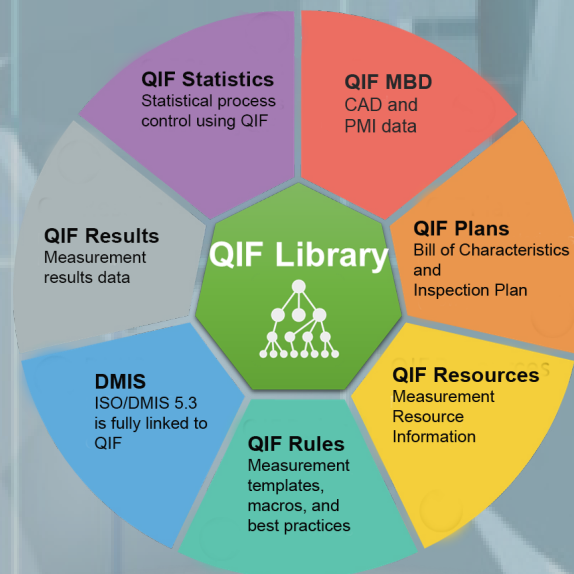
What is QIF?

QIF (Quality Information Framework) is an interoperability standard that provides a “common communication language” for information about feature characteristics specified for manufactured parts.

The purpose of QIF is to provide interoperability and exchangeability for computer-generated data related to quality control in manufacturing. The goal is to make quality information usable by a variety of devices and software applications.

With Model-Based Definition (**MBD**) data (i.e., PMI, FAI, etc.) becoming more commonplace, QIF has become an attractive, complete and unambiguous MBD delivery mechanism for industrial end-users.

QIF is built on XML technology and is available free to all implementers.



v 04 4/2023

Why Join DMSC?

As a member of **DMSC**, you'll be participating in **setting** standards, rather than just following them. You'll be collaborating with some of the foremost experts in the manufacturing metrology industry.

DMSC Membership Benefits:

- *Participate in the development of new and upcoming standards through DMSC's active Working Groups*
- *Have a direct influence on the direction, development, and adoption of QIF (and ISO) worldwide standards*
- *Have access to Subject Matter Experts (SMEs) already doing QIF production implementations*
- *Share Best Practices through educational Webinars, Technical Workshops and DMSC's QIF Training and Certification program*
- *Engage major OEMs that have adopted QIF as part of their Model-Based Enterprise (MBE) strategy*
- *Solve mutual metrology industry issues through collaboration with other DMSC members*
- *Build relationships with key vendors that have proven technology products and services*
- *Advance international standards for product quality data exchange*
- *Gain an understanding of how QIF relates to other accepted standards (MTConnect, STEP, and others)*
- *Establish yourself and your company as an industry thought leader*



Scan to learn more about
more about joining DMSC

Digital Metrology
Standards Consortium **DMSC**