PROPOSED DOCUMENT

Global Harmonization Task Force

Title: Principles of Conformity Assessment for In Vitro Diagnostic (IVD) Medical Devices

Authoring Group: Study Group 1 of the Global Harmonization Task Force

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Preface

This document was produced by the Global Harmonization Task Force, a voluntary group of representatives from IVD Medical Devices Regulatory Authorities and the regulated industry. The document is intended to provide non-binding guidance for use in the regulation of IVD Medical Devices, and has been subject to consultation throughout its development.

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1.0 Introduction

The objective of the Global Harmonization Task Force (GHTF) is to encourage convergence at the global level in the evolution of regulatory systems for medical devices in order to facilitate trade whilst preserving the right of participating members to address the protection of public health by regulatory means considered to be most suitable.

The primary way in which the GHTF achieves its goals is through the production of a series of guidance documents that together describe a global regulatory model for IVD Medical Devices. The purpose of such guidance is to harmonize the documentation and procedures that are used to assess whether an IVD Medical Device conforms to the regulations that apply in each jurisdiction. Eliminating differences between jurisdictions decreases the cost of gaining regulatory compliance and allows patients earlier access to new technologies and treatments.

This document should be read in conjunction with the GHTF document on Principles of Classification for IVD Medical Devices. The linked development of documents on classification and conformity assessment are important to ensure a consistent approach across all countries/regions adopting the global regulatory model recommended by the GHTF, so that premarket approval for a particular IVD Medical Device may become acceptable globally.

This document has been developed to encourage and support global convergence of regulatory systems. It is intended for use by Regulatory Authorities, Conformity Assessment Bodies and industry, and will provide benefits in establishing, in a consistent way, an economic and effective approach to the control of IVD Medical Devices in the interest of public health. It seeks to strike a balance between the responsibilities of Regulatory Authorities to safeguard the health of their citizens and their obligations to avoid placing unnecessary burdens upon the industry. Study Group 1 of the GHTF supports and encourages regulatory harmonization but recognises that some Regulatory Authorities may have to reflect different local needs when they introduce new regulations on conformity assessment. However, Regulatory Authorities that are developing conformity assessment schemes or amending existing ones are encouraged to consider the adoption of the system described in this document, as this will help to reduce the diversity of schemes world-wide and facilitate the process of harmonization.

At this time, conformity assessment requirements and other regulatory controls assigned to each risk class of IVD Medical Devices by different Regulatory Authorities have yet to be harmonized and may vary from the guidance provided in this document.

Study Group 1 of the Global Harmonization Task Force (GHTF) has prepared this guidance document. Comments or questions about it should be directed to either the Chairman or Secretary of GHTF Study Group 1 whose contact details may be found on the GHTF web page1.

1 www.ghtf.org
2.0 Rationale, Purpose and Scope

2.1 Rationale

Regulatory systems are intended to ensure a high level of protection of public health and safety.

Public trust and confidence in IVD Medical Devices, and in the administrative systems by which they are regulated, are based on the safety and performance of such products throughout their life cycle.

Conformity assessment, conducted before and after an IVD Medical Device is placed on the market, and post-marketing surveillance of IVD Medical Devices in use are complementary elements of the GHTF global regulatory model. These complementary elements are intended to provide the objective evidence of safety and performance, benefits and risks, to maintain public confidence.

GHTF encourages and supports the development of international consensus standards for IVD Medical Devices to demonstrate compliance with the Essential Principles of Safety and Performance of Medical Devices.

Conformity assessment is primarily the responsibility of the IVD Medical Device manufacturer. However, it is done in the context of the established regulatory requirements and both the process and conclusions are subject to further review by the regulatory authority and/or conformity assessment body.

In general, the degree of involvement of the regulatory authority or conformity assessment body in such reviews is proportional to the risks associated with a particular category of devices.

The inter-relationship between device class and conformity assessment is critical in establishing a consistent approach across all countries/regions adopting GHTF principles, so that the premarket approval process and evidence requirements for a particular IVD Medical Device are acceptable globally. This document provides guidance on the principles of conformity assessment for IVD Medical Devices. It should be read in conjunction with the GHTF document on Principles of IVD Medical Devices Classification that recommends rules to assist a manufacturer to allocate its IVD Medical Devices to one of four risk classes. The procedures indicated in this document reflect the need to make conformity assessment more rigorous as the risk class of an IVD Medical Device increases.

2 SG1/N012 Role of Standards in the Assessment of Medical Devices
2.2 Purpose

To describe:
- An overview of the available conformity assessment elements to demonstrate conformity to the *Essential Principles of Safety and Performance for Medical Devices*;
- the conformity assessment elements that should apply to each class of device such that the regulatory demands are proportional to the risk class of the IVD Medical Device;
- the manufacturer’s responsibilities to provide evidence that the IVD Medical Device is safe and performs as intended by the manufacturer;
- the responsibilities of a Regulatory Authority (RA), or Conformity Assessment Body (CAB) appointed by or acting on behalf of the RA, to confirm that the conformity assessment elements are properly applied by the manufacturer.

2.3 Scope

This document applies to all products that fall within the definition of an IVD Medical Device stated in the GHTF document Principles of IVD Medical Devices Classification (SG1(PD)/N045).

3.0 References

**GHTF final documents**

SG1/N012:2000 *Role of Standards in the Assessment of Medical Devices.*


SG1/N043:2005 *Labelling for Medical Devices.*

SG2/N021:1999 *Adverse Event Reporting Guidance for the Medical Device Manufacturer or its Authorized Representative.*


SG4/N024:2002 *Guidelines for Regulatory Auditing of Quality Systems of Medical Device Manufacturers: General Requirements – Supplement No. 4 – Compilation of Audit Documentation (Clause 5.7)*


**GHTF documents available for public comment**

SG1(PD)/N045 *Principles of IVD Medical Devices Classification.*
4.0 Definitions

**Audit:** a systematic and independent examination to determine whether quality activities and related results comply with planned arrangements and whether these arrangements are implemented effectively and are suitable to achieve objectives. (Source – GHTF/SG4/N028:1999).

**Authorized Representative:** means any person explicitly designated by a manufacturer, to represent it within a country or jurisdiction where it is not itself established, in respect of matters raised by the relevant Regulatory Authority, with regard to the manufacturer’s obligations under the regulations that operate within that country or jurisdiction. (Source – European Directive 98/79/EC modified)

**Conformity Assessment:** the systematic examination of evidence generated and procedures undertaken by the manufacturer, under requirements established by the Regulatory Authority, to determine that a medical device is safe and performs as intended by the manufacturer and, therefore, conforms to the Essential Principles of Safety and Performance for Medical Devices (SG1/N041).

**Conformity Assessment Body (CAB):** a body engaged in the performance of procedures for determining whether the relevant requirements in technical regulations or standards are fulfilled. A CAB is authorized to undertake specified conformity assessment activities by a RA that will ensure performance of the CAB is monitored and, if necessary, withdraw designation.

**Recognised Standards:** Standards deemed to offer the presumption of conformity to specific essential principles of safety and performance. (Source – GHTF/SG1/N012:2000)

**Regulatory Authority (RA):** a government body or other entity that exercises a legal right to control the use or sale of medical devices within its jurisdiction, and that may take enforcement action to ensure that medical products marketed within its jurisdiction comply with legal requirements.

**Summary Technical Documentation (STED):** a summary of technical documentation held or submitted for conformity assessment purposes. (Source – GHTF/SG1(PD)/N11 modified)

**Technical Documentation:** the documented evidence, normally an output of the quality management system, that demonstrates compliance of a device to the Essential Principles of Safety and Performance of Medical Devices (SG1/N041). (Source – GHTF/SG1/N40:2006)
5.0 Conformity Assessment Elements

The conformity assessment elements that the RA may include in a conformity assessment system are:

- a quality management system
- a system for post-market surveillance
- summary technical documentation
- a declaration of conformity
- the registration of manufacturers and their IVD Medical Devices by the RA.

All five elements are applicable to each of the device classes. Where there are alternatives within a conformity assessment element, the manufacturer may choose the one that it believes to be most suitable.

The conformity assessment elements that appear in this Section describe the tasks of the manufacturer and, where appropriate, the responsibilities of the RA or CAB. Specific guidance on the conformity assessment elements for each device class is provided in the tables in Section 6.2.

5.1 Quality management system (QMS)

The requirements for a quality management system that is accepted by RAs for regulatory purposes and based on international recognised standards\(^3\) for medical devices, combined with the other conformity assessment elements are intended to ensure that IVD Medical Devices will be safe and perform as intended by the manufacturer.

A manufacturer needs to demonstrate its ability to provide IVD Medical Devices that consistently meet both customer and regulatory requirements. Manufacturers demonstrate compliance through an established and effectively implemented quality management system that meets the regulatory requirements.

The scope and complexity of the quality management system that a manufacturer needs to establish is influenced by varying needs, objectives, the products provided, processes employed, the size and structure of the organisation, and the specific regulatory requirements.

Processes required by the quality management system but carried out on the manufacturer’s behalf by third parties remain the responsibility of the manufacturer and are subject to control under the manufacturer’s quality management system. The RA/CAB should assess the adequacy of this control as part of the conformity assessment process.

The extent of the RA/CAB assessment of the manufacturer’s quality management system is influenced by the class of the IVD Medical Device.

\(^3\) SG1/N012 Role of Standards in the Assessment of Medical Devices
For Class B, C and D devices, the RA or CAB needs to be satisfied that the manufacturer has an effective quality management system in place, appropriate for the device under assessment. In doing this, the RA or CAB will consider any relevant existing certification and, if not satisfied, e.g. with its scope or with post-market performance history, may carry out an on-site audit of the manufacturer’s facility.

Manufacturers of Class C and D devices should have a full quality management system⁴ that includes design and development. Manufacturers of Class B devices should have a quality management system also; however, the procedures incorporated within it may not necessarily include design and development activities. Manufacturers of Class A devices are expected to have the basic elements of a QMS in place but need not include design and development activities.

The QMS for manufacturers of Class A devices is normally not subject to premarket on-site audit by the RA or CAB.

5.2 System for post market surveillance

Prior to placing the product on the market, the manufacturer will put in place, as part of its quality management system, a process to assess the continued conformity of the device to the Essential Principles of Safety and Performance throughout the IVD Medical Device lifecycle. This process will include complaint handling, vigilance reporting, and corrective and preventive action⁵.

The RA or CAB will confirm that such a process is in place, usually at the time of the quality management system audit⁶.

5.3 Technical documentation

The technical documentation provides the evidence that the IVD Medical Device meets the Essential Principles.

For the purposes of conformity assessment, the manufacturer will establish a subset of technical documentation (Summary Technical Documentation (STED)) to be held or submitted, as required by the class of the device. A description of that subset will be provided in the GHTF guidance document: Summary Technical Documentation for Demonstrating Conformity to the Essential Principles of Safety and Performance of IVD Medical Devices (STED). The extent of evidence in that STED is likely to increase with the class of the IVD Medical Device and its complexity.

The RA or CAB determines the adequacy of the documented evidence in support of the manufacturer’s Declaration of Conformity to the Essential Principles through a review of

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⁴ See GHTF/SG3 guidance documents
⁵ See GHTF/SG2 guidance documents
⁶ Further details are provided in the GHTF guidance documents issued by Study Groups 3 and 4
the STED. The depth and the point in time of the review is likely to be influenced by the risk class of the IVD Medical Device and its complexity.

5.4 Declaration of conformity

One element of the GHTF regulatory model for IVD Medical Devices requires that the manufacturer attest that its IVD Medical Device complies fully with all applicable Essential Principles for Safety and Performance as documented in a written ‘Declaration of Conformity’ (DOC).

At a minimum, this declaration should contain the following information:

- A statement that each device that is the subject of the declaration:
  - complies with the applicable Essential Principles for Safety and Performance,
  - has been classified according to the classification rules\(^7\), and
  - has met all the applicable conformity assessment elements.
- Information sufficient to identify the device(s) to which the Declaration of Conformity applies.
- A Global Medical Device code and term for the device.
- The risk class allocated to the device(s) after following the guidance found in Principles of IVD Medical Devices Classification\(^8\).
- Which of the conformity assessment procedures described in Section 6.2 have been applied.
- The date from which the Declaration of Conformity is valid.
- The name and address of the device manufacturer.
- The name, position and signature of the responsible person who has been authorised to complete the Declaration of Conformity upon the manufacturer’s behalf.

The RA or CAB may review and confirm the adequacy of the Declaration of Conformity, if required, by examining the supporting documents or other evidence.

5.5 Registration of manufacturers and their IVD Medical Devices by the Regulatory Authority

Registration of both the manufacturers and their IVD Medical Devices by the RA is considered to be the most basic level of regulatory control of devices in the market. This registration system will identify the IVD Medical Device/s and the party responsible for the IVD Medical Device/s within the particular jurisdiction, thereby facilitating any regulatory activity.

Prior to placing an IVD Medical Device on the market, the manufacturer, its local distributor or its Authorized Representative should provide the Regulatory Authority with the required information.

The RA will maintain the register.

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\(^7\) See SG1(PD)/N045 Principles of IVD Medical Devices Classification.

\(^8\) See SG1(PD)/N045 Principles of IVD Medical Devices Classification
6.0 Harmonized Conformity Assessment System

6.1 The relationship between conformity assessment and device classification

The GHTF recommends that each IVD Medical Device be allocated to one of four classes, using a set of rules as defined in the GHTF document *Principles of IVD Medical Devices Classification*. Class A devices are the lowest risk devices, Class B are moderate to low risk, Class C are moderate to high risk and Class D devices present the highest risk. The level of scrutiny and evidence needed to demonstrate that the IVD Medical Device meets the *Essential Principles for Safety and Performance* and conformity assessment procedures should be proportional to the risk class of the IVD Medical Device.

This principle is illustrated in the tables that follow. The tables identify available conformity assessment elements and propose a combination of those elements that may be applied to different classes of IVD Medical Devices to construct a harmonized conformity assessment system that may be adopted as part of the GHTF regulatory model for IVD Medical Devices. Where there are alternatives within conformity assessment elements, e.g. the quality management system for a Class A or Class B device may be either a full quality management system or one without design and development control, the manufacturer may choose the one that it believes to be most suitable.

6.2 Conformity assessment system

The four tables below summarise conformity assessment elements that apply to Class A, B, C and D devices.
**CLASS “A” DEVICE**

<table>
<thead>
<tr>
<th>Conformity Assessment Element</th>
<th>Manufacturer Responsibility</th>
<th>RA / CAB Responsibility</th>
<th>Section</th>
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</thead>
<tbody>
<tr>
<td>Quality Management System (QMS)</td>
<td>Establish and maintain a full QMS or a QMS without design and development controls</td>
<td>Premarket regulatory audit not required.</td>
<td>5.1</td>
</tr>
<tr>
<td>Post Market Surveillance</td>
<td>Establish and maintain an adverse event reporting procedure according to GHTF SG2 guidance.</td>
<td>May audit post-market to investigate specific safety or regulatory concerns.</td>
<td>5.2</td>
</tr>
<tr>
<td>Technical Documentation</td>
<td>Prepare STED and have available for review upon request.</td>
<td>Premarket submission of STED not required. May be requested to investigate specific safety or regulatory concerns</td>
<td>5.3</td>
</tr>
<tr>
<td>Declaration of Conformity</td>
<td>Prepare, sign and maintain</td>
<td>On file with the manufacturer; available upon request</td>
<td>5.4</td>
</tr>
<tr>
<td>Registration of manufacturers and their devices</td>
<td>Perform according to regulatory requirements</td>
<td>Maintain and verify as appropriate.</td>
<td>5.5</td>
</tr>
</tbody>
</table>
## CLASS “B” DEVICE

<table>
<thead>
<tr>
<th>Conformity Assessment Element</th>
<th>Manufacturer Responsibility</th>
<th>RA / CAB Responsibility</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality Management System (QMS)</td>
<td>Establish and maintain a full QMS or a QMS without design and development controls</td>
<td>Be satisfied that a current and appropriate QMS is in place or otherwise conduct a QMS audit prior to marketing authorization.</td>
<td>5.1</td>
</tr>
<tr>
<td>Post Market Surveillance</td>
<td>Establish and maintain an adverse event reporting procedure according to GHTF SG2 guidance.</td>
<td>Be satisfied that a current and appropriate adverse event reporting procedure is in place as part of the QMS.</td>
<td>5.2</td>
</tr>
<tr>
<td>Technical Documentation</td>
<td>Prepare STED and have available for review upon request.</td>
<td>Premarket submission normally not required but if requested, receive and conduct a premarket review of the STED to determine conformity to Essential Principles.</td>
<td>5.3</td>
</tr>
<tr>
<td>Declaration of Conformity</td>
<td>Prepare, sign and submit</td>
<td>Review and verify compliance with requirements.</td>
<td>5.4</td>
</tr>
<tr>
<td>Registration of manufacturers and their devices</td>
<td>Perform according to regulatory requirements</td>
<td>Maintain and verify as appropriate.</td>
<td>5.5</td>
</tr>
</tbody>
</table>
## CLASS “C” DEVICE

<table>
<thead>
<tr>
<th>Conformity Assessment Element</th>
<th>Manufacturer Responsibility</th>
<th>RA / CAB Responsibility</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality Management System (QMS)</td>
<td>Establish and maintain a full QMS.</td>
<td>Be satisfied that a current and appropriate QMS is in place or otherwise conduct a QMS audit prior to marketing authorization.</td>
<td>5.1</td>
</tr>
<tr>
<td>Post Market Surveillance</td>
<td>Establish and maintain an adverse event reporting procedure according to GHTF SG2 guidance.</td>
<td>Be satisfied that a current and appropriate adverse event reporting procedure is in place as part of the QMS.</td>
<td>5.2</td>
</tr>
<tr>
<td>Technical Documentation</td>
<td>Prepare and submit STED for review.</td>
<td>Receive and conduct a premarket review of the STED sufficient to determine conformity to Essential Principles.</td>
<td>5.3</td>
</tr>
<tr>
<td>Declaration of Conformity</td>
<td>Prepare, sign and submit.</td>
<td>Review and verify compliance with requirements.</td>
<td>5.4</td>
</tr>
<tr>
<td>Registration of manufacturers and their devices</td>
<td>Perform according to regulatory requirements.</td>
<td>Maintain and verify as appropriate.</td>
<td>5.5</td>
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</table>
### CLASS “D” DEVICE

<table>
<thead>
<tr>
<th>Conformity Assessment Element</th>
<th>Manufacturer Responsibility</th>
<th>RA / CAB Responsibility</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality Management System (QMS)</td>
<td>Establish and maintain a full QMS</td>
<td>Be satisfied that a current and appropriate QMS is in place or otherwise conduct a QMS audit prior to marketing authorization.</td>
<td>5.1</td>
</tr>
<tr>
<td>Post Market Surveillance</td>
<td>Establish and maintain an adverse event reporting procedure according to GHTF SG2 guidance.</td>
<td>Be satisfied that a current and appropriate adverse event reporting procedure is in place as part of the QMS.</td>
<td>5.2</td>
</tr>
<tr>
<td>Technical Documentation</td>
<td>Prepare and submit STED for review</td>
<td>Receive and conduct an in-depth premarket review of the STED to determine conformity to Essential Principles.</td>
<td>5.3</td>
</tr>
<tr>
<td>Declaration of Conformity</td>
<td>Prepare, sign and submit.</td>
<td>Review and verify compliance with requirements.</td>
<td>5.4</td>
</tr>
<tr>
<td>Registration of manufacturers and their devices</td>
<td>Perform according to regulatory requirements</td>
<td>Maintain and verify as appropriate.</td>
<td>5.5</td>
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</table>

### 6.3 Conformity assessment considerations

There are situations when characteristics of the device and/or its manufacturer may cause the RA or CAB, by exception, to modify particular requirements of the elements of conformity assessment.

For example:

- This may include deferring the review of the STED for Class C devices until a subsequent regulatory audit.

- The RA or CAB may exempt the manufacturer from making a complete premarket submission and/or require a less rigorous audit than would apply normally to a device of that class when:
  
  - the device incorporates well-established technology that is present in the market;
  - the RA and/or CAB is familiar with the manufacturer’s capabilities and its products;
  - the device is an updated version of a compliant device from the same manufacturer that contains little substantive change;
  - the RA and/or CAB has particular experience with a comparable device;
• internationally recognised standards\textsuperscript{9} are available to cover the main aspects of the device and have been used by the manufacturer.

Similarly, the RA or CAB may require more detailed premarket submission and/or require a more rigorous audit and/or the provision of more performance evaluation data than would apply normally to a device of that risk class when:

• the device incorporates innovative technology;
• an existing compliant device is being used for a new intended use;
• the manufacturer’s experience level with the type of IVD Medical Device is limited;
• the device type tends to be associated with an excessive number of adverse events, including use errors;
• the device incorporates innovative or potentially hazardous materials;
• the device type raises specific public health concerns.

It should be emphasised that there must be a fully justified and documented case before the RA or CAB modifies in any way the relationship between device class and the associated conformity assessment procedure. Where there is justification for variation to the conformity assessment procedures normally applicable to a particular device class, a statement in this regard should be included in the STED.

\textsuperscript{9} SG1/N012 \textit{Role of Standards in the Assessment of Medical Devices}