



**The European Federation of Organisations for Medical Physics**

Domus Medica, Mercatorlaan 1200, Utrecht, NL  
 Mailing address: P.O. box 8003, 3503 RA Utrecht, NL  
 Telephone: (+31) 30 6866 561

**PROPOSAL FOR A NEW WORKING GROUP (WG)**

<b>Name of WG<sup>1</sup>:</b>	Recommendations on a generic framework for commissioning and periodic testing for AI software solutions in clinical practice (Joint WG with AAPM, EANM, ESR, ESTRO)
<b>Parent Committee(s)<sup>2</sup>:</b>	Projects committee
<b>Keywords<sup>3</sup>:</b>	AI algorithms, Acceptance testing, QA/QC,
<b>Chair(s)<sup>4</sup>:</b>	To be determined
<b>Expected outcome<sup>5</sup>:</b>	The objective of this joint WG will be to produce a generic document providing guidance on the items that need to be considered within the context of acceptance testing but more importantly the development of periodic QA/QC programs for AI software implemented in clinical practice. The produced document is meant to serve as the basis for the construction of discipline/application specific guidelines for acceptance testing and periodic QA/QC programs and as such it will be discipline (NM, radiology, radiotherapy) independent. These guidelines will serve to position the medical physics experts in the centre of the deployment of these solutions in clinical practice within our different disciplines.
<b>Target audience<sup>6</sup>:</b>	Medical Physicists, vendors, legislators
<b>Rationale<sup>7</sup>:</b>	With the fast development of AI solutions and their rapid uptake in clinical practice there is a real need for the development of acceptance testing and QA/QC periodic programs to monitor their performance. AI software is based on initial training using specific datasets and although initial performance should be constant there is a real risk of deviations based on the variability of real-life datasets but also associated technologies used to produce the datasets in question. As such there is a clear need to produce guidelines similar to those used for acceptance testing and periodic QA/QC of medical devices (imaging and/or treatment). In addition, these guidelines need to take into consideration the recent EU AI Act.



**The European Federation of Organisations for Medical Physics**

Domus Medica, Mercatorlaan 1200, Utrecht, NL  
 Mailing address: P.O. box 8003, 3503 RA Utrecht, NL  
 Telephone: (+31) 30 6866 561

<b>Coordination<sup>8</sup>:</b>	Since the objective is to be generic/discipline independent this WG will be joint with other discipline specific organisations such as AAPM, EANM, ESR, ESTRO. At the same time transatlantic coordination may be also considered with the invitation of members from AAPM but also eventually others (eg. SNMMI). Within EFOMP there will be a collaboration with the WG on software as a medical device which goes beyond the question of AI software and only treats home-made software solutions. Finally, there will be collaboration with other discipline specific Special Interest Groups and the Science committee where used cases may be inspired from.
----------------------------------	--

*This proposal form must be filled by the EFOMP parent committee chair.*

<b>Category:</b>	WGs are classified into the following categories depending on their topic and purpose. Please choose the most appropriate.
	<b>New Horizons.</b> The topic involves new scientific developments, methods, technology or clinical applications that have not yet emerged into clinical practice.
	<b>State of Art.</b> The topic involves codes of practice, protocols, recommendations or guidelines for activity which are expected to become enduring practice.
<b>X</b>	<b>Focus Area.</b> The topic involves certain specific area of clinical interest, modality or method which may include a technical or methodological challenge to be solved.
	<b>Educational or Informational.</b> The topic involves education or informing the members in a relevant area of clinical practice, technology, methods, research or training.
<b>X</b>	<b>Consensus Document.</b> The topic involves a consensus of the medical physics community on a certain area of interest that the EFOMP will endorse. This category may include e.g. safety issues or professional issues.
<b>Members<sup>9</sup>:</b>	Proposed 6 EFOMP members. Ask each association to nominate 1 from each society (EFOMP will decide who will be member/consultants/observers) AAPM, EANM, ESR, ESTRO
<b>Consultants/Observers<sup>10</sup>:</b>	EFOMP will decide who will be consultants/observers



**The European Federation of Organisations for Medical Physics**

Domus Medica, Mercatorlaan 1200, Utrecht, NL  
 Mailing address: P.O. box 8003, 3503 RA Utrecht, NL  
 Telephone: (+31) 30 6866 561

<b>Funding<sup>11</sup>:</b>	The WG will be mostly working by teleconference. A small budget for attending meetings with stakeholders may be useful.
<b>Timeline<sup>12</sup>:</b>	<p>May 2026: establish the membership of the WG from EFOMP and contact the relevant organisations to provide membership names</p> <p>June 2026: start with the first meeting, discuss objectives and working program. Structure the work to come in order to achieve the desired objectives</p> <p>October 2026: set up the basis of the contents of the guidelines for acceptance testing and those for QA/QC</p> <p>November 2026 – April 2027: put together a first draft of the guideline and identify use cases (at least one per discipline)</p> <p>May 2027 – October 2027: work on the second draft of the guidelines</p> <p>November 2027 - April 2028: test the guidelines in the identified use cases and propose eventual modifications</p>
<b>Proposed outline of the final report<sup>13</sup>:</b>	<p>Guidelines for acceptance testing</p> <p>Guidelines for periodic QA/QC</p>

**Legend**

- 1) **Name of WG** - Including an indication of the WG type - i.e. if the WG will be a Joint WG.
- 2) **Parent Committee(s)** - Relevant EFOMP Committee.
- 3) **Keywords** - include at least 3 keywords.
- 4) **Chair(s)** - The chair of the parent committee will propose the chair of the WG.
- 5) **Expected outcome** - Description of the relevant results expected from the WG.
- 6) **Target audience** - e.g. Medical Physicists, Vendors.
- 7) **Rationale** - What is the justification and need for the proposed WG.



**The European Federation of Organisations for Medical Physics**

Domus Medica, Mercatorlaan 1200, Utrecht, NL  
Mailing address: P.O. box 8003, 3503 RA Utrecht, NL  
Telephone: (+31) 30 6866 561

- 8) **Coordination** - The parent committee chair has to specify if there is a coordination or collaboration with other EFOMP Committees, WGs and/or scientific organisations.
- 9) **Members** - Proposed list of active members based on the feedback on the WG announcement from NMOs, potentially interested experts within the medical physics community and the EFOMP Board will be composed by the parent committee chair together with the proposed WG chair. The proposed member list has to be approved by the EFOMP Board. WG members have to create an efficient and optimal composition of expertise and professional coverage. WG members can be updated also later if and when needed.
- 10) **Consultants/Observers** - Proposed other WG participants who are indicated as consultants or observers. The parent committee chair together with the proposed WG chair will identify possible consultants/observers.
- 11) **Funding** - Description of the WG funding needs (meetings, etc.) and how the finances will be acquired and managed. This part is optional and can also be zero.
- 12) **Timeline** - WG timetable described by main milestones and reporting. Interim progress reporting must be provided at least in 6 months intervals.
- 13) **Proposed outline of the final report** - What should be included in order to reach the planned outcome.