

HEALTH  
SCIENCES  
AUTHORITY

REGULATORY GUIDANCE

For consultation: August 2024

# MEDICAL DEVICE GUIDANCE

Guidance on Change Management Program (CMP)  
for SaMD



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FOR CONSULTATION

## 39 1. INTRODUCTION

40 Software as a Medical Device (SaMD), including those incorporating Machine Learning (ML)  
41 technology, plays a crucial role in offering innovative solutions to improve medical diagnosis, treatment,  
42 and patient care. SaMD Product Owners (PO) are required to adopt Total Product Life Cycle (TPLC)  
43 approach to manage and adapt to the ever-changing SaMD while ensuring that the software remains  
44 relevant, safe and effective throughout its life cycle.

45

46 However, prevailing regulatory framework may not be suited to accommodate the rapid iterative nature  
47 of SaMD. POs face the challenges of adhering to regulatory requirements which consist of ensuring  
48 compliance and obtaining regulatory approvals which can impact the timeliness of the implementation  
49 of SaMD changes. Hence, adoption of modern regulatory framework that embraces agile  
50 methodologies and risk-based assessments is necessary to help to expedite the approval process for  
51 certain types of changes, especially those aimed at improving the effectiveness and safety of SaMD.

52

53 To address this, the Health Sciences Authority (HSA) has initiated a new optional regulatory pathway –  
54 **Change Management Program (CMP)**, specifically for SaMD that is incorporated into HSA's  
55 Premarket Product Registration and Change Notification (CN) processes.

56

57 CMP streamlines SaMD TPLC-based regulatory framework to facilitate timely implementation of  
58 software changes for SaMD registered on the Singapore Medical Device Register (SMDR), by  
59 establishing confidence in PO's good quality management system practices, demonstrated through  
60 excellent capabilities in their SaMD development, verification/validation, post-market  
61 surveillance/vigilance.

62

63 CMP also introduces the concept of **Pre-specified changes**, allowing upcoming anticipated changes  
64 (refer Section 5.2) for the SaMD to be implemented in a timely manner. Through this pathway, Product  
65 Owners can have better transparency and predictability in regulatory clearance for future software  
66 changes.

67

68 In addition, with a pre-existing device approval under CMP, this program facilitates leveraging on  
69 previously approved CMP documentation if the subsequent device registration is for a similar SaMD  
70 with equivalent quality management processes. This reduces redundancy in dossier preparation and  
71 allows faster market access for the new SaMD.

72           **1.1     Intended audience**

73     This document is intended for stakeholders who are involved in standalone software medical device  
74     development and /or registering such devices in Singapore.

75

76           **1.2     Objective**

77     This guidance describes the regulatory requirements and procedures for CMP submission during SaMD  
78     Product Registration or Change Notification application.

79

80           **1.3     Scope**

81     This guidance is applicable to all SaMD, including machine-learning (ML) incorporated SaMD (ML-  
82     SaMD) with intended use that falls under the definition of a medical device as stipulated in the *Health*  
83     *Products Act (HPA)*. This will include SaMD which is intended for medical purposes such as  
84     investigating, detecting, diagnosing, monitoring, treating or managing of any medical condition, disease,  
85     anatomy or physiological process.

86     Overall, the following topics will be covered in this document:

- 87           • Eligibility criteria to enrol into CMP  
88           • Application process  
89           • Submission requirements  
90           • Post-CMP approval  
91           • Change Notification  
92           • Leveraging on approved CMP  
93           • Turn-Around-Time (TAT) and fees

94     This document should be read together with the other relevant documents including the Regulatory  
95     Guidelines for Software medical Devices – A Life Cycle Approach, other Guidances such as GN-15,  
96     GN-17, GN-18 and GN-21.

97

98

## 99 2. DEFINITION

100 Definitions that do not indicate they are set out in the *Act* or *Regulations* are intended as guidance in  
101 this document. These definitions are not taken verbatim from the above-mentioned legislation and  
102 should not be used in any legal context. These definitions are means to provide guidance in layman  
103 terms.

104 **ARTIFICIAL INTELLIGENCE (AI):** refers to a set of technologies that seek to simulate human traits  
105 such as knowledge, reasoning, problem solving, perception, learning and planning.

106

107 **CYBERSECURITY:** a state where information and systems are protected from unauthorized activities,  
108 such as access, use, disclosure, disruption, modification, or destruction to a degree that the  
109 related risks to confidentiality, integrity, and availability are maintained at an acceptable level  
110 throughout the life cycle.

111

112 **END OF SUPPORT (EOS):** Life cycle stage of a product starting when the manufacturer terminates all  
113 service support activities and service support does not extend beyond this point.

114

115 **PRODUCT OWNER (as set out in the Regulations):** in relation to a health product, means a person  
116 who:

- 117 • supplies the health product under his own name, or under any trademark, design, trade name or  
118 other name or mark owned or controlled by him; and
- 119 • is responsible for designing, manufacturing, assembling, processing, labelling, packaging,  
120 refurbishing or modifying the health product, or for assigning to it a purpose, whether those tasks  
121 are performed by him or his behalf.

122

123 **INTENDED PURPOSE/INTENDED USE (as set out in the Regulations):** in relation to a medical device  
124 or its process or service, means the objective intended use or purpose, as reflected in the specifications,  
125 instructions and information provided by the product owner of the medical device.

126

127 **MACHINE LEARNING ENABLED SaMD (ML-SaMD):** A SaMD that uses machine learning, in part or  
128 in whole, to achieve its intended medical purpose.

129

130 **RECOGNIZED STANDARDS:** Standards deemed to offer the presumption of conformity to specific  
131 essential principles of safety and performance.

132

133 **REFERENCE STANDARD / GROUND TRUTH:** An objectively determined benchmark that is used as  
134 the expected result for comparison, assessment, training, etc

135

136 **REGISTRANT (as set out in the Act):** in relation to a registered health product, means the person who  
137 applied for and obtained the registration of the health product under this *Act*.

138

139 **STANDALONE SOFTWARE** (also known as **SOFTWARE AS MEDICAL DEVICE, (SaMD)** in **IMDRF**  
140 **context**): a software and/or mobile application that is intended to function by itself and are not intended  
141 for use to control or affect the operation of other hardware medical devices.

142

143 **TEST DATASET**: A set of data that is never shown to the machine learning training algorithm during  
144 training, that is used to estimate the machine learning model's performance after training.

145

146 **TRAINING**: Process intended to establish or to improve the parameters of a machine learning model,  
147 based on an machine learning training algorithm, by using training data.

148

149 **TRAINING DATASET**: A set of data that is used to train the machine learning model, which is not part  
150 of the Test Dataset

151

152

153

154 **3. ELIGIBILITY CRITERIA TO ENROL INTO CMP**

155 The two pre-requisites to enrol into CMP are as follow:

Conformance with the following standards*:	Documentary requirement
ISO 13485	SaMD product owner shall possess a valid ISO 13485 certificate, with approved scope of activity applicable to the SaMD and related development activities. <b>Note:</b> For Original Equipment Manufacturer (OEM) SaMD, ISO 13485 certificate is to be provided by OEM.
IEC 62304	SaMD product owner may either possess IEC 62304 certificate issued by accredited third-party certification body or in-house assessed summary report conforming to IEC 62304, etc

156 \* NOTE: SaMD product owners are required to conform to the latest standard version and conformance  
157 shall remain valid throughout the SaMD total product life cycle (TPLC).

158

159



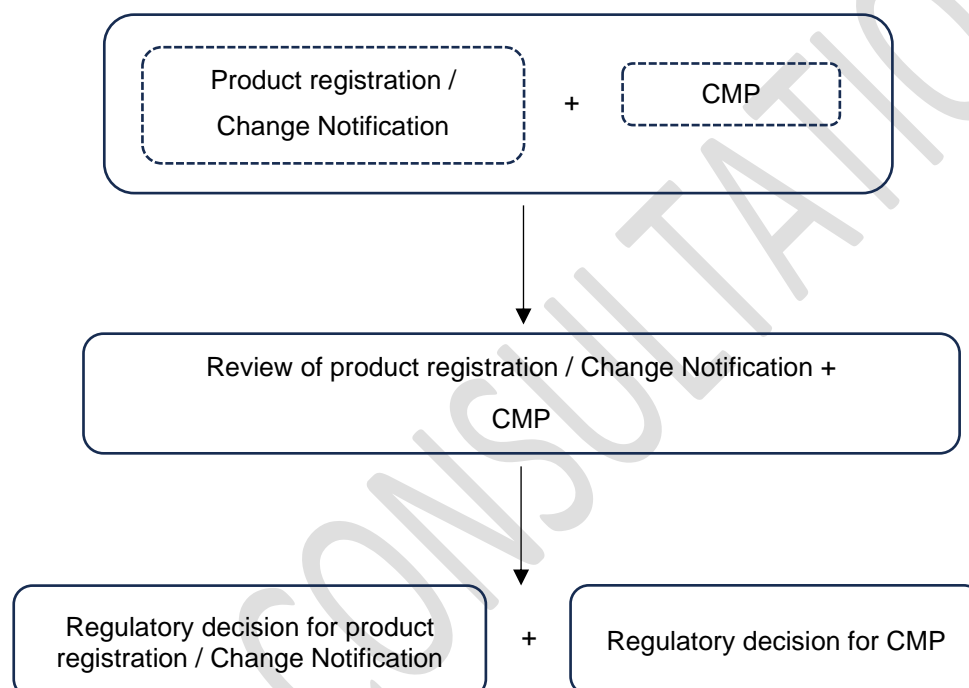
#### 4. APPLICATION PROCESS

Registrant can enrol into CMP through either a premarket product registration or Change Notification\* (CN) application for an existing registered medical device.

*\* Note: Review change for class B SaMD; Technical change for Class C SaMD*

The CMP and product registration/CN application will be reviewed concurrently. Regulatory outcome for product registration/CN and CMP will be determined independently (i.e. the CMP regulatory decision does not affect the outcome of the product registration/CN).

The application process for the assessment of product registration or Change Notification application, with CMP submission is summarised as below:



## 182 5. SUBMISSION REQUIREMENTS

183 Product Owners shall demonstrate that good quality management system practices have been  
184 established through excellent capabilities in SaMD development, verification/validation, post-market  
185 surveillance/vigilance to ensure the safety, effectiveness and cybersecurity of the SaMD throughout  
186 their TPLC.

187 By demonstrating that robust quality assurance processes are in place, it provides assurance that the  
188 SaMD is designed, developed, and maintained in a manner that ensures its safety and effectiveness.  
189 Besides, it also instils confidence in the proactive management of changes to the SaMD (as outlined in  
190 the Pre-specified changes), ensuring that any updates or alterations are made in a controlled and  
191 systematic manner, without compromising its safety or performance.

192

193 To demonstrate this, the following documentations shall be submitted as part of the CSDT for CMP  
194 submission during product registration or Change Notification application. You may also refer to Annex  
195 1 for the summary of submission requirements.

196 **Note:** Product Owner (PO) shall provide justification or alternative information, as applicable, if any of  
197 the following outlined information is not available.

198

### 199 5.1 Quality assurance processes

200 By using Annex 2 template, describe how current quality assurance processes applicable to your  
201 SaMD can demonstrate the following:

202 a) Timely review of recognized standards throughout SaMD TPLC.

203 • Demonstrate that processes are in place to enable timely review or perform gap  
204 analysis to assess whether the SaMD conforms to the latest standard version  
205 applicable to your SaMD.

206

207 b) SaMD versioning and traceability processes

208 • Demonstrate the following processes are in place throughout the SaMD TPLC to  
209 enable identification and post-market traceability / follow-up in the event of software  
210 changes and / or field safety corrective actions:

211 ○ SaMD software versioning: how the different levels of software version  
212 numbers are designated (e.g: version x.y.z, whereby x = major software  
213 change; y = minor software change; z = internally assigned build number).

214 ○ 3<sup>rd</sup> party and / or open-source software, if applicable: Processes for  
215 record-keeping and monitoring of these components (e.g: Software bill of  
216 material , etc).

- 217 c) Cybersecurity and data safety management
- 218 *Either (if SaMD PO conforms to IEC 81001-5-1)*
- 219 • Conformance to IEC 81001-5-1 (Health Software and health IT systems safety,
- 220 effectiveness and security). This can be demonstrated through certificate issued
- 221 by accredited third-party certification body or in-house assessed summary report;
- 222 • Demonstrate on-going plan and/or processes in-place to address cybersecurity
- 223 risks when current operating system is reaching End of Support (EOS);
- 224 *Or (full set of cybersecurity requirements)*
- 225 • Cybersecurity vulnerabilities (known and foreseeable), risk analysis focusing on
- 226 assessing the risk of patient harm and mitigation measures implemented.
- 227 • On-going plans, processes or mechanisms for surveillance, timely detection and
- 228 management of those identified and future cybersecurity-related threats including
- 229 operating system reaching EOS and emerging vulnerabilities throughout the useful
- 230 life of the device.
- 231 • Evidence that the security of the device/ effectiveness of the security controls have
- 232 been verified. It should contain the following information where applicable:
- 233 ○ Descriptions of test methods, results, and conclusions;
- 234 ○ A traceability matrix between security risks, security controls, and testing
- 235 to verify those controls; and
- 236 ○ References to any standards and internal SOPs/documentation used.
- 237
- 238 d) Safety issues management, including effective adverse events (AE) and Field Safety
- 239 Corrective Action (FSCA) reporting
- 240 • Demonstrate PO's proactivity and efficiency in responding to safety-related issues,
- 241 including but not limited to
- 242 ○ robust AE and FSCA reporting;
- 243 ○ corrective software roll-out;
- 244 ○ recovery software roll-back process or in-built mechanism to roll back to
- 245 previous software version if an unexpected safety issue is found in the
- 246 current software version.
- 247
- 248 e) For SaMD with third-party and open-source software
- 249 (E.g: commercial or 3<sup>rd</sup> party operation and communication systems):
- 250 Processes related to risk management of third-party and open-source software throughout
- 251 the SaMD TPLC (E.g: monitoring potential hazards and risks; isolation of identified hazards
- 252 and risks; implementation of the respective risk control measures, etc), including analysis

253 of the frequency of updates necessary to ensure SaMD receives timely cybersecurity  
254 support (E.g: network security updates, pushdowns, patches)

255

256 f) Post-market data analysis

257 • Processes related to how post-market data is collected, analysed, fed back into  
258 SaMD TPLC to consistently improve the SaMD, or mitigate newly identified risks  
259 (E.g: post market surveillance / real world data on cyber threats, technology update  
260 and risk assessments, etc).

261

262 g) Change management

263 • Processes to ensure potential safety risks are identified and mitigated upon  
264 implementation of changes, and all relevant deliverables are updated after a  
265 change (e.g.: software change history, release notes, etc)

266

## 267 5.2 Pre-specified changes

268 For SaMD with upcoming anticipated-changes (e.g: improvement in existing features /  
269 specifications, bug fixes, etc) that would otherwise require a new Change Notification application.

270 **Exclusion:** Changes resulting in change in SaMD intended use, indication for use and method of  
271 use (e.g: Existing approved workflow includes a review the final output by a nurse and specialist.  
272 New workflow will exclude the review of the result by a specialist), changes to device particulars  
273 which are published on SMDR.

### 274 Documentary requirements:

275 a) Change description

276 Information provided should include, but not limited to:

277 • List of the anticipated SaMD changes, including references to any associated  
278 proposed changes in labeling relevant to each modification. For each anticipated  
279 modification, please also specify the corresponding software version on a best  
280 effort basis. We understand that the software versions provided may be subject to  
281 change in the future.

282 • Information on expected update frequency or implementation timeline on a best  
283 effort basis.

284 • Description on factors or triggers for implementation to take place (e.g: user  
285 feedback, performance thresholds, etc)

286

## 287 b) Implementation protocol

288 Describing how the changes will be implemented and managed. Information provided  
289 should include, but not limited to:

- 290 • Deployment plan - description on how each change will be implemented (e.g:  
291 automatically or manually by users, service engineers, etc)
- 292 • User communication plan - Description on how users can be informed when each  
293 change is implemented (e.g: communication note, release note, etc)
- 294 • Description of verification instructions (e.g. instructions to determine the current  
295 installed software version) for users to ensure successful implementation takes  
296 place, Description of the planned updated user training (if applicable)
- 297 • Draft labelling update plan - Description of expected labelling changes resulting  
298 from the implementation
- 299 • Post-update corrective action plan (E.g: Description of mechanisms put in place to  
300 detect and revert / stop the implementation of a change if the SaMD does not  
301 perform as intended after change is implemented, etc)
- 302 • Information on post-implementation surveillance plan, including real world  
303 performance monitoring (if applicable)

304

## 305 c) Performance verification &amp; validation protocol

306 The protocol should describe the process that will be followed to demonstrate that the  
307 changed SaMD will meet the new identified specifications as part of a specific change, as  
308 well as maintain existing specifications (i.e: regression testing) . Information provided  
309 should include, but not limiting to:

- 310 • Description of test methods to support planned changes, including test objective
- 311 • Pre-defined acceptance criteria / specifications
- 312 • Management of potential safety risks identified from unresolved anomalies

313

## 314 d) For ML-SaMD\* only:

315 *\*Note: not including continuous learning (CL) & generative AI*

## 316 1) Training test dataset selection / collection

317 New data input data and features/ attributes used to generate the corresponding  
318 output. Information should include:

- 319 • Data selection / collection protocols including clinical study protocols (as  
320 applicable) with inclusion/exclusion criteria;
- 321 • Quality assurance process related to the data consistency and  
322 completeness
- 323 • Processes to ensure training and test datasets are independent of one  
324 another

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- 2) Re-training protocol. Information should include:
- Description on how the planned re-training protocol is relatable to respective Change.
  - Objective of the re-training process (ie: how the re-training can achieve the Change described)
  - Plans to ensure the other software functions remain unaffected by the re-training process
  - Information on how re-training process is initiated (e.g., planned timeline, when new data reaches a certain size, etc).
  - Description on potential safety risks posed by re-trained AI model and their respective planned mitigations

338  
339  
340

- e) Traceability table (for multiple changes only).  
Relevant protocols (i.e: as described in part b – d) should be stated for respective change (i.e: as outlined in the change description).

341  
342  
343

Example:  
*To facilitate the review process, kindly cite the pertinent section or document file name for the corresponding change*

Changes per described in section 5.2 a)	Performance validation protocol	Implementation protocol	For ML-SaMD only	
			Dataset protocol	Re-training protocol
Change 1	See section W	See section X	See section Y	See section Z
Change 2				
Change 3				
Change 4				

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- f) Post-implementation impact analysis  
Analysis of the risks and benefits of implementing the pre-specified changes, as well as the mitigations of the identified risks. The information should include:
- Description on effects of the changes on device (e.g: comparison between initial baseline device performance vs post-change implementation device performance)
  - Assessment of risks and benefits of respective changes and discuss how the activities proposed within the described performance validation and implementation protocols (i.e: section 5.2b and c) are able to reasonably ensure the safety and effectiveness of the device.

- 354
- 355
- 356
- 357
- Assessment on how the implementation of one change impacts the implementation of another change
  - Overall collective impact analysis of implementation of all the proposed changes.

358

## **6. POST-CMP APPROVAL**

359 Approved Pre-specified changes under CMP may be implemented without Change Notification  
360 submission. These approved changes are still subject to relevant post-market regulatory oversight.  
361 The Registrant shall be required to submit a Declaration on the implementation records within 1  
362 year after approval of CMP application. Subsequent Declaration on the implementation records  
363 shall be submitted within 1 year from the last declaration submission.

364

365 Companies are to ensure that appropriate mechanisms are in place to differentiate and identify the  
366 changed SaMD from the original version (e.g. through software version, change implementation  
367 date, etc), and maintain relevant inventory records on file to ensure traceability of the different  
368 SaMD versions, as part of their quality management system (QMS). All relevant records on file shall  
369 be made available to the Authority upon request.

370

371

372 **7. CHANGE NOTIFICATION**

373 A software medical device undergoes a number of changes throughout its product life cycle. The  
 374 changes are typically meant to (i) correct faults, (ii) improve the software functionality and  
 375 performance to meet customer demands and / or (iii) ensure safety and effectiveness of the device  
 376 is not compromised (e.g. security patch).

377 The following type of changes require Change Notification submission:

Type of changes	Categories of change	Submission requirement
Change to previously approved Pre-specified changes	Notification change	1) Annex 2 to GN-21: Summary Table of Change Notification 2) Updated relevant section 5.2, with changes highlighted/identified.
Addition of new Pre-specified changes		1) Annex 2 to GN-21: Summary Table of Change Notification 2) Section 5.2
All other changes (ie: not described above)	Please refer to <b>GN-21: Guidance on Change Notification for Registered Medical Devices</b>	For changes to registered ML-SaMD, please refer to <b>Regulatory Guidelines for Software medical Devices – A Life Cycle Approach</b>

378

379 Notification Changes may be implemented immediately upon receipt of the acknowledgement  
 380 email from HSA after submission via MEDICS.

381 Changes under Notification change type may be bundled and notified to HSA in one change  
 382 notification application. Alternatively, such changes could be submitted together with the next  
 383 Review/Technical change of the registered software (whichever comes first). While bundling  
 384 Notification changes, any such change shall be submitted within a maximum of 6 months from  
 385 the point of first implementation, globally. Prior to implementation of notification changes in  
 386 Singapore, companies shall maintain relevant inventory records on file to ensure traceability of  
 387 the changes as part of their QMS requirements.

388 Bundled Notification Changes do not apply to:

389 - Artificial Intelligence (AI) based devices (e.g. machine learning, neural networks and  
 390 natural language processing); and

391 - AE/FSCA related changes.

392

393



## 394 **8. LEVERAGING ON APPROVED CMP**

395 As equivalent quality management processes may be applied across similar SaMDs, the same  
396 CMP documentation may be applicable across these devices.

397 To reduce redundancy in CMP dossier preparation and facilitate faster market access for similar  
398 upcoming SaMD, Product Owner may leverage on the approved CMP documentation (except  
399 Section 5.2) in

- 400 i) new Product Registration on similar SaMD; or
- 401 ii) CN\* for existing registered SaMD (ie: different listing),

402 if the quality management processes are equivalent for both SaMDs (new SaMD and previously  
403 approved SaMD under CMP).

404 *\* Note: Review change for class B SaMD; Technical change for Class C SaMD*

405

406 The following documents are required to be submitted (refer Annex 1 for summary of submission  
407 requirements):

- 408 • Evidence of conformity to ISO 13485 & IEC 62304 (Section 3)
- 409 • Justification for identified SaMD used as the reference case in previously approved CMP  
410 submission remains applicable to the new SaMD intended to be registered / already-listed  
411 SaMD.
- 412 • Pre-specified changes documents (Section 5.2), if applicable.

413 Note: The pre-specified changes for the new SaMD may be different from the pre-specified  
414 changes authorized for the previously approved SaMD under CMP.

- 415 • Declaration letter from PO stating that the the quality management processes for the new SaMD  
416 / already-listed SaMD are equivalent to the one reviewed previously for referenced CMP-  
417 approved SaMD (Annex 3).
- 418 • Referenced CMP-approved SaMD device name and SMDR listing number

419

420

**421 9. TURN-AROUND TIME (TAT) AND FEES**

422 There is no change to target turn-around-time (TAT) for Product registration and Change  
423 Notification applications with CMP enrolment. The target TAT for Product registration and Change  
424 Notification applications commences from the date of receipt of the application and does not include  
425 'stop-clock time' due to input requests for clarifications and additional information. Information on  
426 TAT for respective application types can be found on HSA website.

427

428 There is no additional fee chargeable for CMP enrolment. Product registration and Change  
429 Notification application fees and evaluation fees can be found on HSA website.

430

**10. ANNEXES**

431

**Annex 1: Summary of CMP submission requirements**

Documents	New CMP application	With approved-CMP		
		New SaMD registration with equivalent Quality assurance processes	Change of approved Pre-specified changes	Addition of Pre-specified changes
Evidence of conformity to ISO 13485 & IEC 62304 (Section 3)	√	√		
Quality assurance processes (Section 5.1)	√	Justification of relevance only		
Pre-specified changes (Section 5.2)	√	√	Updated sections only	√
Declaration letter from PO on Quality Management Processes (Annex 3)		√		
Referenced CMP-approved SaMD device name and SMDR listing number		√		
Annex 2 to GN-21: Summary Table of Change Notification			√	√

432

433

434 **Annex 2: Quality assurance processes checklist template**

435

Quality assurance processes requirements	Description on how the conformity applicable to the SaMD can be demonstrated
Timely review of recognized standards throughout SaMD TPLC	
SaMD versioning and traceability processes	
Cybersecurity and data safety management	
Safety issues management, including effective adverse events (AE) and Field Safety Corrective Action (FSCA) reporting	
Processes related to risk management of third-party and open-source software throughout the SaMD TPLC	
Post-market data analysis	
Change Management	

436

FOR CONSULTATION

437 **Annex 3: Declaration letter on Quality Management Processes template**

438

439 *[To be printed on Company Letterhead of Product Owner]*

440

441 Medical Devices Cluster

442 Health Products Regulation Group

443 Health Sciences Authority

444

445 *[Date]*

446

447 Dear Sir/Madam,

448

449 **Subject:** Declaration letter of Quality Management Processes

450

451 We, *[name of Product Owner (Company Name)]*, as the Product Owner confirm that the Quality  
452 Management Processes for *[new SaMD device name]* are identical/equivalent to the one reviewed  
453 previously for *[referenced Device name (SMDR listing number), job reference number]*. If not identical,  
454 please provide a description of the differences.

455

456

457

458

459 Yours sincerely,

460 *[Signature]*

461

462 *[Full name and Title of Senior Company Official]*

463 *[Name and address of company]*

# HEALTH SCIENCES AUTHORITY

Health Products Regulation Group  
Blood Services Group  
Applied Sciences Group

[www.hsa.gov.sg](http://www.hsa.gov.sg)

**Contact Information:**

Medical Devices Cluster  
Health Products Regulation Group  
Health Sciences Authority

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Singapore 138667

[www.hsa.gov.sg](http://www.hsa.gov.sg)

**Email:** [hsa\\_md\\_info@hsa.gov.sg](mailto:hsa_md_info@hsa.gov.sg)

