

**BIM-AM Standards and Guidelines Version 1.0 Vs Version 2.0 –  
Summary of Major Amendments**

Note:-

1. The following summary table includes the major amendments and please refer to version 2.0 for the detailed requirements.
2. This serves the purpose of ease of reference only. The standards and guidelines should take preference over any discrepancy if identified.

Item	Section	Version 1.0	Version 2.0
1.	Section 1.2 - Folder Structure of the handover package	Specified under Section 1.2	The folder structure requirement has been expanded per individual systems.
2.	Section 1.5 – Interpretation and Abbreviations	Not specified	New section to elaborate the technical term and abbreviations mentioned in the Standards and Guidelines
3.	Section 2 – E&M Asset Coding	Specified under Section 2.6	Coding requirement is revised under Section 2.1.
4.	Section 2 – Block Code	Not specified	New section for block code as specified in Section 2.4.
5.	Section 2 – Discipline Code	Specified under Section 2.3	Some of the discipline codes are deleted as specified under Section 2.5.
6.	Section 2 – Names and Codes of E&M Systems and Corresponding Routing	Specified under Section 2.4	New systems and routing codes, such as medical gas system, pneumatic tube system, water leakage detection system, mechanical handling & lifting installation, refrigerant pipe, hot water supply pipe etc. are added to Section 2.6.
7.	Section 2 – E&M Asset Code	Specified under Section 2.5	<ul style="list-style-type: none"> <li>• Elaboration is made to equipment type.</li> <li>• New equipment types of medical gas system, pneumatic tube system, water leakage detection system and mechanical handling &amp; lifting installation are added.</li> </ul>
8.	Section 3.1 – Model Management	10 requirement as specified under Section 3.1	New requirement up to 11 items are added.

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9.	Section 3.2 – Model File Naming	Specified under Section 3.2.	The naming convention of BIM models and BIM objects is revised.
10.	Section 3.5.1 – Duct System	Specified under Section 3.5.1	Rise/ drop symbols of duct system are added.
11.	Section 3.5.4 – modelling E&M equipment and routing	Specified under 3.5.4	<ul style="list-style-type: none"> <li>• Elaboration is made to the modelling requirement of objects for operation of BIM-AM System.</li> <li>• BIM category is revised.</li> </ul>
12.	Section 3.5.5 - Panel Schedule Distribution Boards	Not specified	New requirement as specified under Section 3.5.5.
13.	Section 3.6 – Modelling Architectural and Building Structure	Not specified	New requirement as specified under Section 3.6.
14.	Section 3.7 – Presentation Style	The line style, weight, pattern and system colour as specified under Sections 3.6.1, 3.6.2 and 3.6.3 and 3.6.4.	Line style, line type and system colour are revised as specified in Section 3.6.3.
15.	Section 3.7.2 – E&M object colour	Not specified	New requirement as specified under Section 3.7.2.
16.	Section 4.1 and 4.2 – E&M Asset Information Requirement	Specified under Section 4	The workflow and asset information requirement are revised.
17.	Section 4.3 – COBie	Specified under Section 4.4	COBieLite is elaborated under Section 4.3.2
18.	Section 4.3.3 – Asset Information Inputting Tool (AIIT)	Not specified	The new section of web-based system, i.e. AIIT, for asset input and data exchange between BIM model and asset management system is added.

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19.	Section 5.2 – Integrating mobile BIM-AM System with RFID Reader	Specified under Section 5.2.2.	<ul style="list-style-type: none"> <li>• The provision of asset code by means of QR codes is added under Section 5.2.2.</li> <li>• New table of 5.1 is added to elaborate the provisional requirement of RFID tags and QR codes.</li> <li>• The installation details of RFID tags and QR codes are added under Section 5.2.3.</li> <li>• The coding requirement of asset tags is revised as specified in Section 5.3.</li> <li>• The new requirement of zone tag coding is specified in Table 5.4.</li> <li>• The new requirement of zoning plan is specified in Section 5.2.5.</li> </ul>
20.	Chapter 6 – BIM-AM Deliverables Checklist	Not specified	New deliverable checklist is provided to facilitate the handover of as-built BIM models.
21.	Appendix B – Asset Information Requirement	Spreadsheets of 18 E&M systems were based on the corporate computer system (CCS) templates.	The spreadsheets of 21 E&M systems are revised according to the BIM-AM asset templates.
22.	Appendix C – Asset Information Input Tool (AIIT) User Guide	COBie extension for revit	The user guide of AIIT with the use of COBieLite is appended.
23.	Appendix D – Shared Parameters Files for EMSD BIM-AM	Not Specified	New shared parameters files is provided based on the asset information required.