

**Appendix XV – Mapping Table for Information Container ID Fields –  
EMSD**

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1. EMSD

1.1. Fields Mapping Table

The naming convention of EMSD BIM AM Standards Guidelines (thereafter referred to as EMSD BIM Guidelines) is extracted below:

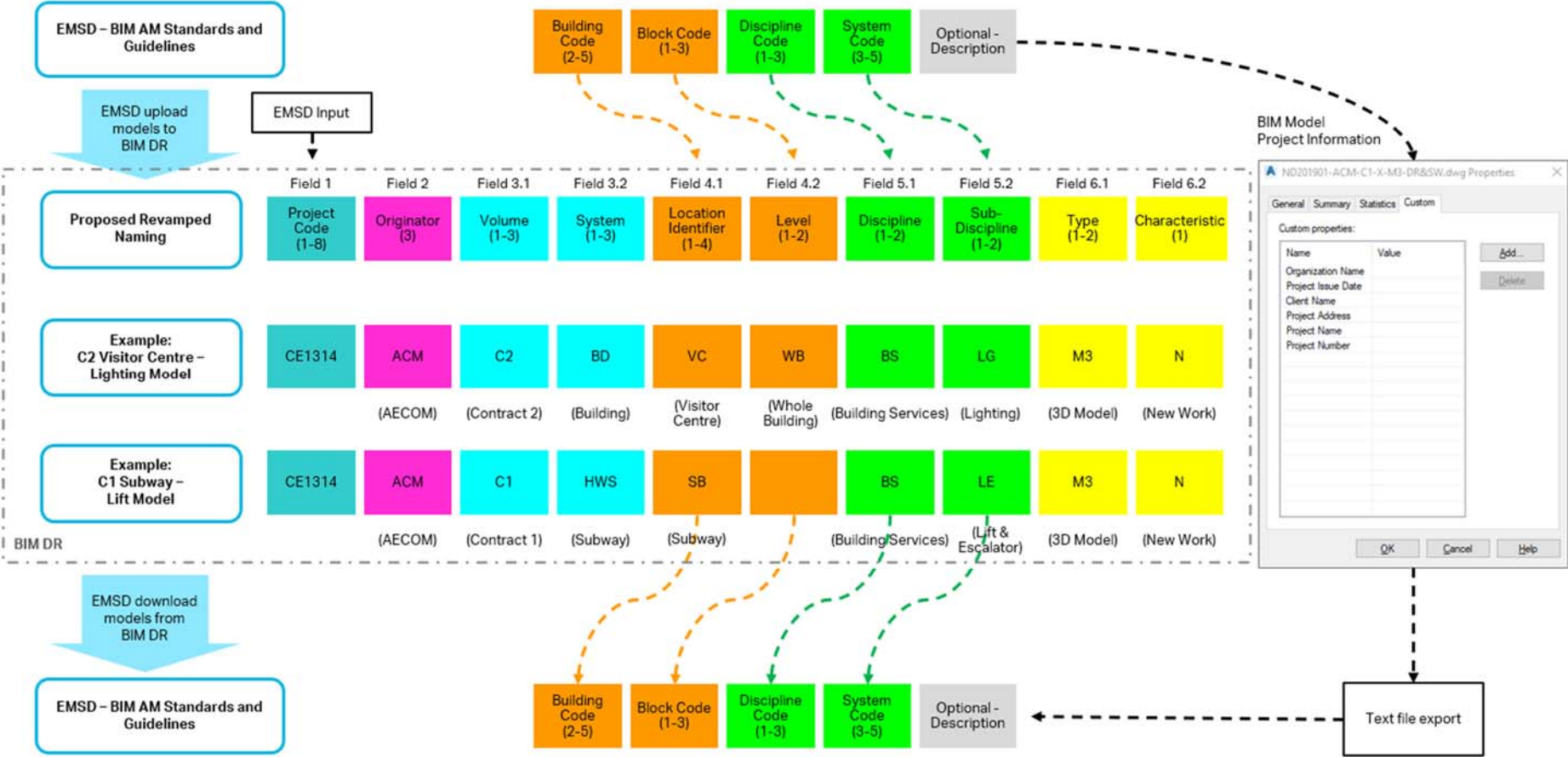
Table App XV-1 Field Mapping for EMSD BIM Guidelines

This Guide			EMSD		
Field/ Sub-field No.	Information Container ID Field	Remark	Naming Field	ID Field Description	Code Mapping
4.1	Location		Building Code	The list of buildings and their building code in Hong Kong can be referred to Appendix A of EMSD BIM AM Standards Guidelines.	Not required
4.2	Sub-location		Building Block Code	The coding represents the blocks or towers of a development with multiple buildings. Other coding used in a project should be agreed by all parties and documented in the project execution plan.	Required
5.1	Discipline		Discipline	Alphabetical character represents the class of disciplines.	Required
5.2	Sub-discipline		System	Names and Codes of E&M Systems  Note:  (1) Systems are not in the EMSD asset templates. (2) Project BIM manager may further create other system types if any specific system is not listed above. The principle for system coding should be for easy identification and drawing production.	Required

This Guide			EMSD		
Field/ Sub-field No.	Information Container ID Field	Remark	Naming Field	ID Field Description	Code Mapping
				The system name and coding used in a project should be agreed by all parties and documented in the project execution plan.	
N/A	N/A	BIM Model Project Information	Description	Not specified	N/A

1.2. Fields Mapping Diagram

Figure App XV-1 Field Mapping Diagram for EMSD BIM Guidelines



Since no project number is included in the file names according to EMSD's naming standards, EMSD is expected to provide its internal project numbers when renaming the models before uploading to the BIM DR.

### 1.3. Fields that Matches with This Guide

Some naming fields of EMSD BIM Guidelines do not require mapping when sharing to (or downloading from) the BIM DR.

- a) Field 1 Building Code is equivalent to the Location field of this Guide and this field could be project specific even though common codes are provided on Appendix X. EMSD building codes are specific locations across the entire HK territory instead of reusable codes in future developments. Therefore, the EMSD codes are considered project specific codes and no codification standards would be applied. However, some of the EMSD building codes exceeds the 4 characters limitation; should it be shared on the BIM DR in the future, EMSD would have to shorten the building codes.
- b) Field 6 Description shall be included in the BIM Model Project Information as BIM attributes which should be inputted in all BIM files as part of the LOD-I for metadata extraction and geolocation. Project Information includes Organisation Name, Project Issue Date, Client Name, Project Address, Project Name and Project Number. Appendix VI of this Guide shown some examples of project information input methods. This field could be automatically read by the BIM DR and exported upon request.

### 1.4. Fields that Needs to be Mapped

For the remaining fields, the following code mapping should apply:

Table App XV-2 Code Mapping for EMSD BIM Guidelines (Sub-location)

EMSD BIM Guidelines		BIM Harmonisation Guidelines	
Field 2: Building Block Code (1 to 3 characters)		Field 4.2 Sub-location (2 characters)	
Codes	Definition	Codes	Definition
T1	Tower 1	T1	Tower 1
T2	Tower 2	T2	Tower 2
B1	Block 1	K1	Block 1
B2	Block 2	K2	Block 2
N	North Wing	N	North Wing
S	South Wing	S	South Wing
W	West Wing	W	West Wing
E	East Wing	E	East Wing
NA	Single building block in project	BD	Building

Table App XV-3 Code Mapping for EMSD BIM Guidelines (Discipline)

EMSD BIM Guidelines		BIM Harmonisation Guidelines	
Field 3: Discipline (1 to 3 character)		Field 5.1 Discipline (2 characters)	
Codes	Definition	Codes	Definition
MEP	Mechanical, Electrical and Plumbing (Combined)	BS	Building Services
A	Architecture	AR	Architectural
S	Structure	ST	Structural
C	Civil Engineering	Civil Engineering contains multiple disciplines. It is suggested that the Civil Engineering be redefined to map to other applicable discipline(s) in this Guide. For generic construction elements, XX-General (non-disciplinary) shall be used.	
L	Landscape	LA	Landscape
O	Other Discipline	Other Discipline is not classified as one single discipline in this Guide. It is suggested that the models identified as Other Discipline under the EMSD classification system be mapped to the other applicable discipline(s) in this Guide. For generic construction elements, XX-General (non-disciplinary) could be used.	
N/A	N/A	CD	Chilled Water Distribution
N/A	N/A	EL	Electrical
N/A	N/A	FO	Sewerage
N/A	N/A	FS	Fire Services
N/A	N/A	FW	Fresh Water System
N/A	N/A	GS	Gas Supply
N/A	N/A	IR	Irrigation
N/A	N/A	ME	Mechanical
N/A	N/A	PS	Electrical Power Supply
N/A	N/A	RD	Road
N/A	N/A	RW	Raw Water System
N/A	N/A	SD	Stormwater Drainage
N/A	N/A	SF	Site Formation
N/A	N/A	SL	Slope
N/A	N/A	SW	Salt Water System
N/A	N/A	TC	Telecommunication
N/A	N/A	WR	Recycled Water System
N/A	N/A	XX	General (non-disciplinary)
N/A	N/A	ZZ	Multiple disciplines for combined model

Table App XV-4 Code Mapping for EMSD BIM Guidelines (Sub-discipline)

EMSD BIM Guidelines		BIM Harmonisation Guidelines	
Field 4: System (3 to 5 character)		Field 5.2 Sub-discipline (2 characters) (Main discipline: Building Services)	
Codes	Definition	Codes	Definition
LAE	Lift & Escalator	LE	Lift & Escalator
LVS	LV Switchboard	LV	LV Switchboard
EMG	Emergency Generator	EG	Emergency Generator
HVAC	Heating, ventilation, and air conditioning	HA	Heating, ventilation, and air conditioning
BLR	Boiler System	BL	Boiler System
FP	Filtration Plant	FP	Filtration Plant
UPS	Uninterrupted Power Supply	UP	Uninterrupted Power Supply
BA	Burglar Alarm	BA	Burglar Alarm
RNS	Radar and Navigation System	RN	Radar and Navigation System
MLS	Microwave Link System	ML	Microwave Link System
TDS	Timing & Display System	TD	Timing & Display System
AV	Audio Video System	AV	Audio Video System
AUS	Audio Electronics System	AU	Audio Electronics System
RS	Radio System	RS	Radio System
CCTV	Closed Circuit TV System	CC	Closed Circuit TV System
BR	Broadcast Reception	BR	Broadcast Reception
LTG	Lighting	LG	Lighting
MG	Medical Gas System	Medical Gas System models are not existed in this Guide. Therefore, this discipline is not included in this Guide and is suggested to be included in an expanded common discipline standard codes in the future.	
EL	Electrical Distribution	EL	Electrical Distribution
PTS	Pneumatic Tube Transport	PT	Pneumatic Tube Transport
PL	Plumbing	PL	Plumbing
DR	Drainage	DR	Drainage
LDS	Water Leakage Detection System	LD	Water Leakage Detection System
MHL	Mechanical Handling & Lifting Installation	Medical Handling & Lifting Installation models are not existed in this Guide. Therefore, this discipline is not included in	



<b>EMSD BIM Guidelines</b>		<b>BIM Harmonisation Guidelines</b>	
<b>Field 4: System (3 to 5 character)</b>		<b>Field 5.2 Sub-discipline (2 characters) (Main discipline: Building Services)</b>	
<b>Codes</b>	<b>Definition</b>	<b>Codes</b>	<b>Definition</b>
		this Guide and is suggested to be included in an expanded common discipline standard codes in the future.	