Appendix XIV – Mapping Table for Information Container ID Fields – DSD

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1.   DSD

1.1. Fields Mapping Table

The naming convention of DSD BIM Modelling Manual (Second Edition) (thereafter referred to as DSD BIM Manual) is extracted below:
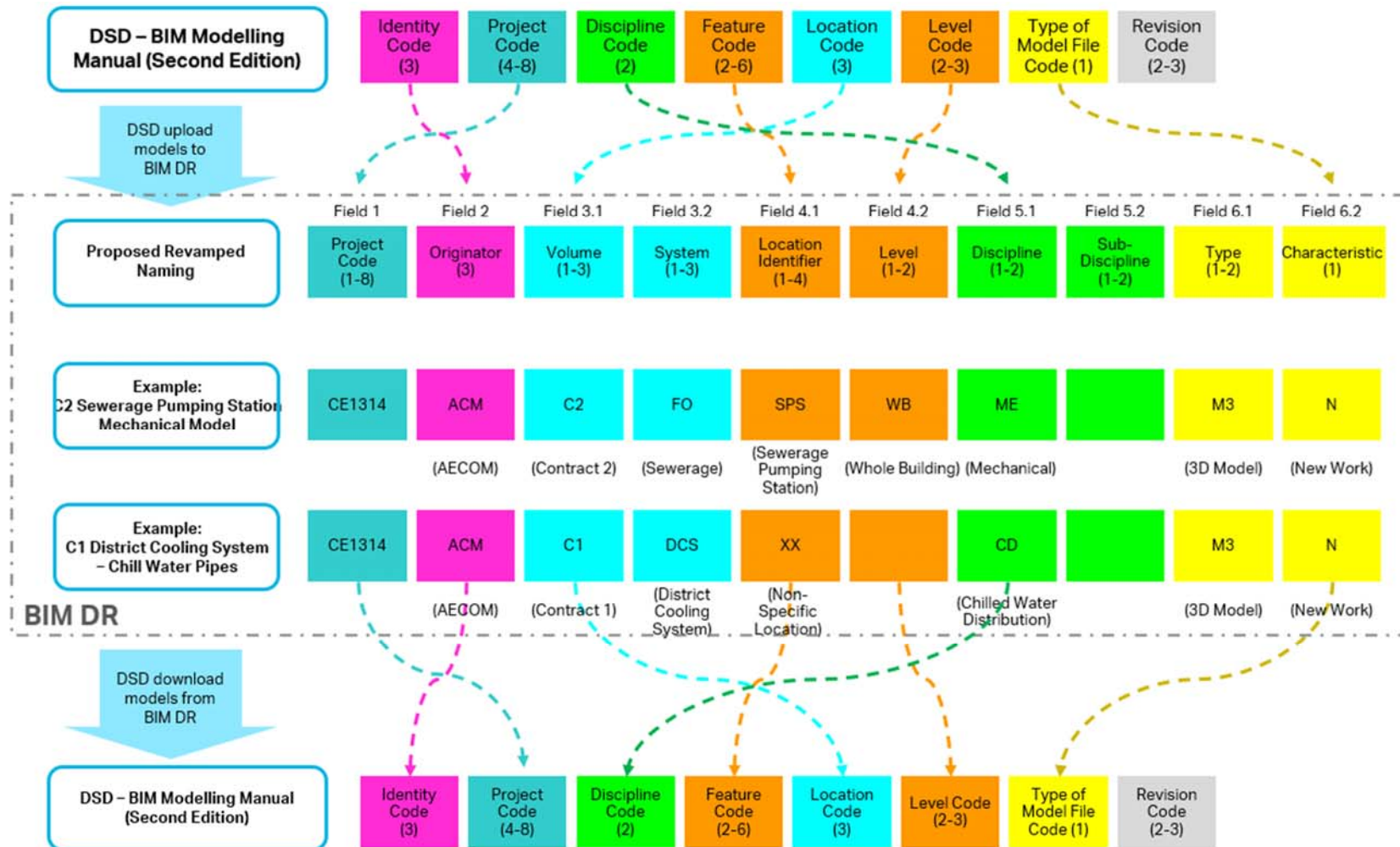
Table App XIV-1 Field Mapping for DSD BIM Manual

Field/ Sub-field No.	Information Container ID Field	Remark	Naming Field	ID Field Description	Code Mapping
	This Guide		**DSD**		
1	Project Code		Project Code	The Project Code should be adopted in the sequence as defined in paragraph 2.1.2.5 1 of DSD BIM Modelling Manual. Contract No. should be used whenever available. If the project is in design stage, Agreement No. should be used. If Agreement No. is not available, then the temporary project number assigned by the respective drawing office should be used.	Not required
2	Originator		Identity Code	It refers to the Agent Responsible Codes (ARCs) of consultants/ contractors registered under the Computer-Aided Drafting Standard for Works Project (CSWP) or codes assigned to various divisions / units of DSD defined in paragraph 3.2.1.1 of DSD BIM Modelling Manual.	Not required
3.1	Volume		Location Code	It refers to a location or group of location in a project which the model file relates to.	Not required
4.1/ 4.2	Location/ Sub-location		Feature Code	It refers to an area of a facility or feature in a project which the model file relates to.	Required

This Guide			DSD		
Field/ Sub-field No.	**Information Container ID Field**	**Remark**	**Naming Field**	**ID Field Description**	**Code Mapping**
4.2	Sub-location		Level Code	It refers to a level, or group of level in a project which the model file relates to.	Required
5.1	Discipline		Discipline Code	It refers to the discipline of a model file.	Required
6.2	Characteristic		Type of Model File Code	It refers to the type of a model file.	Required
N/A	N/A		Revision Code	It refers to the revision of a model file.	N/A

1.2. Fields Mapping Diagram

Figure App XIV-1 Field Mapping Diagram for DSD BIM Manual

1.3.   Fields that Matches with this Guide

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

a)   Field 1 Identity Code is the same as the Originator field of this Guide.

b)   Field 2 Project Code and Field 5 Location Code are equivalent to the Project Code and Volume of this Guide. As these fields are project specific with no standard codification system, mapping is not required.

Field 6 Revision Code is not required to be included when uploading model files to the BIM DR. The BIM DR would only collect as built and design BIM models. Models on the BIM DR shall not have frequent design changes. Therefore, Revision Code is suggested to be set as "00" after downloading from the BIM DR for DSD's use.

1.4.   Fields that Needs to be Mapped

For the remaining fields, the following code mapping should apply. (See Appendix X for common codes of Field 4 Feature Codes)

Table App XIV-2 Code Mapping for DSD BIM Manual (Discipline)

DSD BIM Manual		BIM Harmonisation Guidelines	
Field 3: Discipline Code (2 characters)		**Field 5.1 Discipline (2 characters)**	
Codes	**Definition**	**Codes**	**Definition**
AR	Architectural	AR	Architectural
BS	Building Services	BS	Building Services
CV	Civil	Civil models for general arrangement drawings are suggested to be rearranged under Architectural, Structural, and General (non-disciplinary) models.	
CI	Control and Instrumentation	Control and Instrumentation model is 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	EL	Electrical
ES	Engineering Survey	Engineering Surveying 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.	
LU	Landscape	LA	Landscape

DSD BIM Manual		BIM Harmonisation Guidelines	
Field 3: Discipline Code (2 characters)		**Field 5.1 Discipline (2 characters)**	
Codes	Definition	Codes	Definition
ME	Mechanical	ME	Mechanical
ST	Structural	ST	Structural
SW	Stormwater	SD	Stormwater Drainage
FW	Sewerage	FO	Sewerage
MD	Multi-Disciplines	ZZ	Multiple disciplines for combined model
N/A	N/A	CD	Chilled Water Distribution
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	PS	Electrical Power Supply
N/A	N/A	RD	Road
N/A	N/A	RW	Raw Water System
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)

Table App XIV-3 Code Mapping for DSD BIM Manual (Level)

DSD BIM Manual		BIM Harmonisation Guidelines	
Field 6: Level Code (2 to 3 characters)		**Level Codes for Field 4.2 Sub-location (2 characters)**	
Codes	Definition	Codes	Definition
B2	Basement 2	B2	Basement Level 2
B1	Basement 1	B1	Basement Level 1
ESP	Reference level from engineering survey	ES	Reference level from engineering survey
00F	Ground Floor	GF	Ground Floor
01F	First Floor	01	Level 01
02F	Second Floor	02	Level 02
RF	Roof	RF	Roof
WB	Whole Building	WB	Whole Building
N/A	N/A	LG	Lower Ground Floor
N/A	N/A	UG	Upper Ground Floor
N/A	N/A	MF	Mezzanine Floor

DSD BIM Manual		BIM Harmonisation Guidelines	
Field 6: Level Code **(2 to 3 characters)**		**Level Codes for Field 4.2 Sub-location** **(2 characters)**	
Codes	**Definition**	**Codes**	**Definition**
N/A	N/A	M1	Mezzanine above level 01
N/A	N/A	M2	Mezzanine Above Level 02
N/A	N/A	PL	Podium Level
N/A	N/A	UR	Upper Roof
N/A	N/A	AL	All levels (of a specific building zone)

Table App XIV-4 Code Mapping for DSD BIM Manual (Characteristic)

DSD BIM Manual		BIM Harmonisation Guidelines	
Field 7: Type of Model File Code **(1 character)**		**Field 6.2 Characteristic (1 character)**	
Codes	**Definition**	**Codes**	**Definition**
S	Seed File / Template File	Template files should not be used for model sharing on BIM DR, this code is suggested to remain for DSD's internal use.	
M	Proposed Works	N	New Works / Proposed Works
T	Temporary Works	T	Temporary Works
E	Existing Features	E	Existing, to remain
L	Link File	Combined Model (CM) for federated models in Field 6.1 Type.	
N/A	N/A	A	As-built
N/A	N/A	M	Maintenance or record
N/A	N/A	D	Demolition
N/A	N/A	W	All Works (combination of above works)