

**Appendix XIII – Mapping Table for Information Container ID Fields –  
CEDD GEO**

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1. CEDD GEO

1.1 Fields Mapping Table

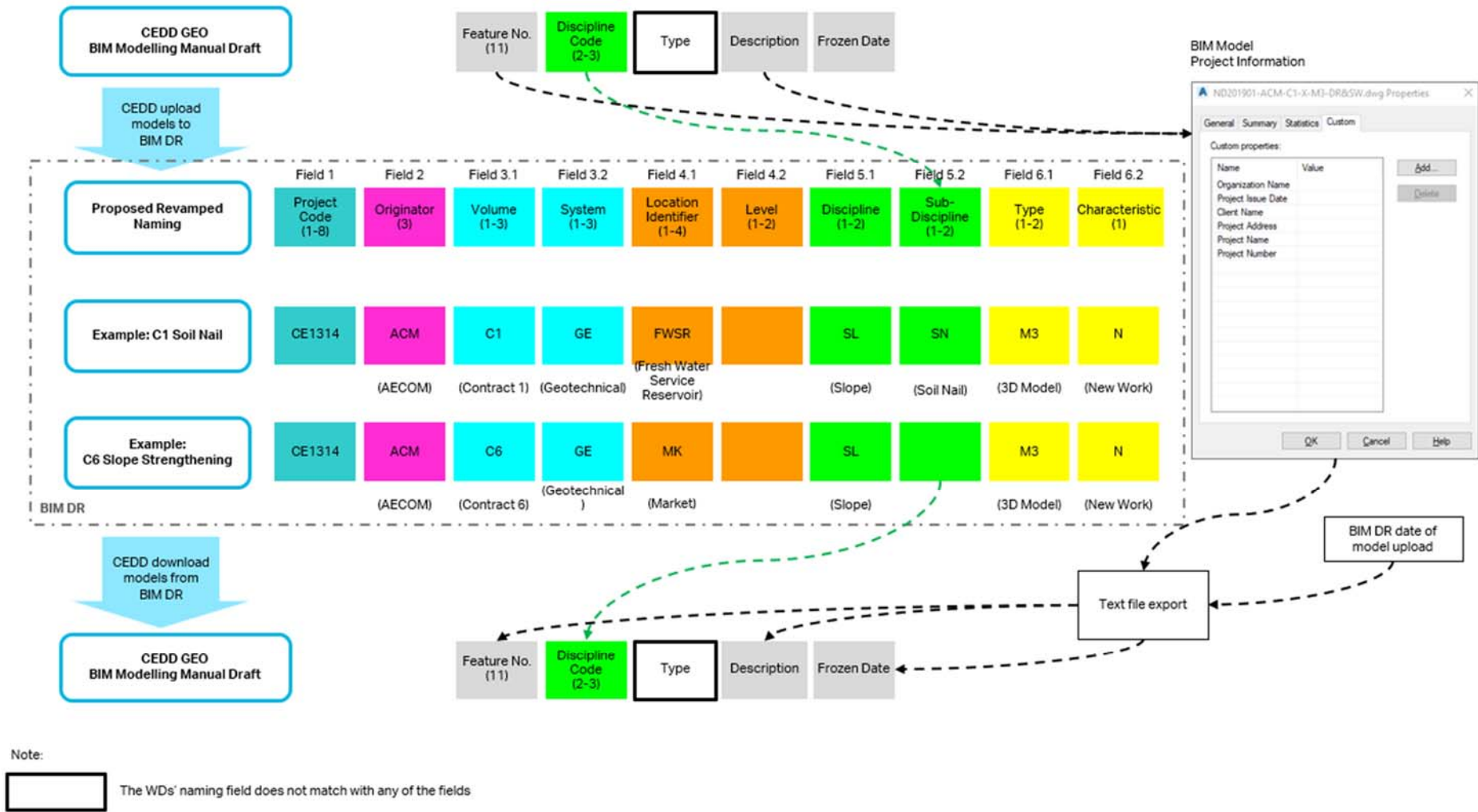
The naming convention of CEDD GEO BIM Modelling Manual Draft (thereafter referred to as GEO BIM Manual) is extracted below:

Table App XIII-1 Field Mapping for GEO BIM Manual

This Guide			CEDD GEO		
Field/ Sub- field No.	Information Container ID Field	Remark	Naming Field	Field Description	Code Mapping
5.2	Sub-discipline		Discipline Code	The Discipline Code should be adopted in the following list. If a new discipline has not included on the list, a new code shall be assigned by GEO BIM support team for ease of internal administration.	Required
N/A	N/A	BIM Model Project Information	Feature no.	Feature number of each registered slope	N/A
N/A	N/A		Type	Not specified	N/A
N/A	N/A	BIM Model Project Information	Description	Not specified	N/A
N/A	N/A		Frozen Date	Before revising the model file, save a copy with the frozen date and leave the current file name unchanged	N/A

1.2 Fields Mapping Diagram

Figure App XIII-1 Field Mapping Diagram for GEO BIM Manual



Field 1 Feature No. and Field 3 Type of GEO BIM Manual could not be mapped into any of the information container ID fields due to the following reasons:

- a) It is suggested each model file would contain more than one slope within a pre-defined area, instead of one model for one slope. Therefore, slope registration number is not suggested to be included as any part of the information container ID (model file name). Instead, the slope registration numbers for slopes within a model are suggested to be included in the BIM Model Project Information as a BIM attributes which should be inputted in all BIM files as part of the LOD-I for metadata extraction and geolocation. 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.
- b) The GEO BIM Manual Draft has not provided the definition for the Type field. However, based on the examples given by CEDD GEO, this field refers to different types of individual elements of a slope, e.g. different types of soil nails. It is suggested that these classifications of elements be handled by BIM objects instead of BIM models. For example, soil nails as BIM objects embedded within a BIM model where different type of soil nails objects may be present within a single model.

### 1.3 Fields that matches with this Guide

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

- a) Field 4 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. 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.
- b) According to GEO BIM Manual, Field 5 Frozen Date shall be applied when a model file is to be revised, so that a frozen model shall be archived with a frozen date added to its file name. However, models uploaded to the BIM DR are for sharing purpose and are not expected to be revised. Upload dates of the model files shall be recorded by the BIM DR and could be exported upon request.

1.4 Fields That Needs to be Mapped

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

Table App XIII-2 Code Mapping for GEO BIM Manual

GEO BIM Manual		BIM Harmonisation Guidelines			
Field 2: Discipline Code (2-3 characters)		Field 5.1 Discipline (2 characters)		Field 5.2 Sub-discipline (2 characters)	
Codes	Definition	Codes	Definition	Codes	Definition
DSM	Digital Surface Model	SL	Slope	DS	Ground Surface
SN	Soil Nail	SL	Slope	SN	Soil Nail
FB	Flexible Barrier	SL	Slope	FB	Flexible Barrier
RB	Rigid Barrier	SL	Slope	RB	Rigid Barrier
UU	Underground Utilities	Underground Utilities is not classified as a discipline nor sub-discipline in this Guide. See Appendix VIII for the Federation Strategy related to underground utilities.			
SD	Surface Drainage	SD	Stormwater Drainage	SD	Surface Drainage
CB	Concrete Berm	SL	Slope	CB	Concrete Berm
MA	Maintenance Access	SL	Slope	MA	Maintenance Access
SW	Stairway	Stairway is not classified as a discipline nor sub-discipline in this Guide. Stairs are suggested to be grouped under Architectural or Structural models.			
SF	Street Furniture	Street Furniture is not classified as a discipline nor sub-discipline in this Guide. Public road furniture may be placed under Road Furniture (RF) model under Road Discipline (RD). Other miscellaneous street furniture are suggested to be grouped under General (non-disciplinary) model (XX).			
LS	Landscape	LA	Landscape	N/A	N/A
TE	Tree	LA	Landscape	Tree are divided into multiple sub-disciplines according to the type under Landscape (LA). Details please refer to the Field 5.2 Sub-discipline table.	
TR	Tree Ring	XX	General (non-disciplinary)	N/A	N/A
GS	Grillage System	SL	Slope	GS	Grillage System
BU	Buttress	SL	Slope	BU	Buttress
DW	Dowel	SL	Slope	DW	Dowel
BO	Rock Bolt	SL	Slope	BO	Rock Bolt
BW	Baffle Wall	SL	Slope	BW	Baffle Wall
GW	Gabion Wall	SL	Slope	GW	Gabion Wall

GEO BIM Manual		BIM Harmonisation Guidelines			
Field 2: Discipline Code (2-3 characters)		Field 5.1 Discipline (2 characters)		Field 5.2 Sub-discipline (2 characters)	
Codes	Definition	Codes	Definition	Codes	Definition
MW	Masonry Wall	SL	Slope	MW	Masonry Wall
PW	Planter Wall	SL	Slope	PW	Planter Wall
RW	Retaining Wall	SL	Slope	RW	Retaining Wall
FD	Foundation	ST	Structural	FD	Foundation
GI	Geological	SL	Slope	GI	Geological
TU	Tunnel	Tunnel is not classified as a discipline nor sub-discipline in this Guide. See Appendix VIII for the Federation Strategy related to tunnel (tunnel, subway and underpass).			
OT	Other Disciplines	XX	General (non-disciplinary)	N/A	N/A