Appendix XII - Mapping Table for Information Container ID Fields - ArchSD

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## 1. ArchSD - Architectural Design

# 1.1. Fields Mapping Table

The naming convention of ArchSD BIM Guide for Architectural Design (thereafter referred to as ArchSD AR Guide) is extracted below:

Table App XII-1 Field Mapping for ArchSD AR Guide

This Guide				ArchSD				
Field/ Information Sub-field Container ID Remark No. Field		Naming Field	ing Field ID Field Description					
1	Project Code		InforM No.	The unique number identifying the project	Not required			
2	Originator		Agent Responsible Code	2 2				
3.1	Volume		Zone/System/ Block	Block Identifier of which building, area, phase or zone of the project, the model file relates to if the project is subdivided by zones).  If the project has zoning, "Z01" should be added in this field.  If the project has no zoning, "ALL" should be added in this field.				
4.2	Sub-location		Level	Identifier of which level, or group of levels, the model file relates to if the project is sub-divided by levels.				
6.2	Characteristic		Туре	Descriptive field defines the type of the project  Not				

This Guide				ArchSD		
Field/ Sub-field No.	Information Container ID Field		Naming Field	ID Field Description	Code Mapping	
N/A	N/A	BIM Model Project Information	1	Descriptive field defines the use of drawing, e.g. 01 for First Submission, 02 for Second Submission, etc.	N/A	

### 1.2. Fields Mapping Diagram

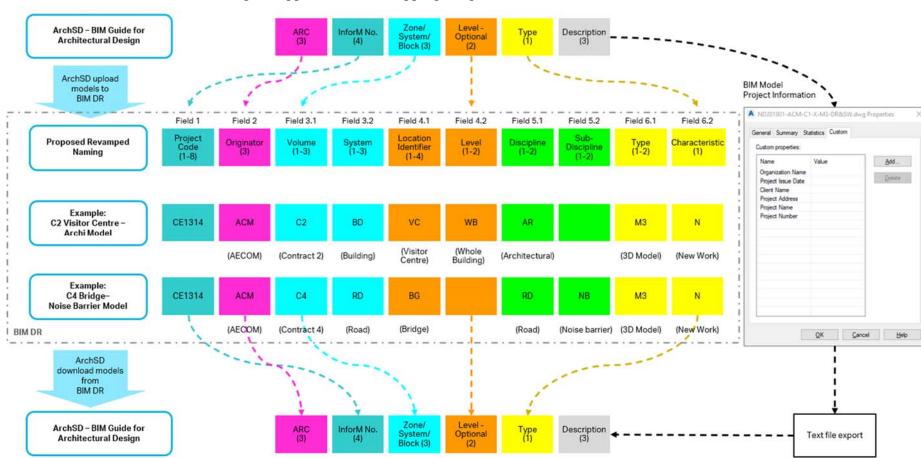


Figure App XII-1 Field Mapping Diagram for ArchSD AR Guide

#### 1.3. Fields that match with this Guide

Some naming fields of ArchSD AR Guide do not require mapping when sharing to (or downloading from) the BIM DR.:

- a) Field 1 Agent Responsible Code and Field 5 Type are the same as the Originator and Characteristic fields of this Guide.
- b) Fields 2 Inform No. and Field 3 Zone/System/Block are equivalent to the Project Code and Volume fields of this Guide. As these fields are project specific with no standard codification system, mapping is not required.
- c) Field 6 Description could be included in the BIM Model Project Information as BIM attributes. BIM Model Project Information 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.

## 1.4. Fields that Needs to be Mapped

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

Table App	TITT O	$\sim$ 1	3 /		1 OD	A T	$\sim$ 1
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A	rchSD AR Guide	BIM Harmonisation Guidelines		
Field 4	: Level (2 characters)	Field 4.2 Sub-location (2 characters)		
Codes	Codes Definition		Definition	
B2	Basement Level 2	B2	Basement Level 2	
B1	Basement Level 1	B1	Basement Level 1	
LG	Lower Ground Floor	LG	Lower Ground Floor	
UG	Upper Ground Floor	UG	Upper Ground Floor	
GF	Ground Floor	GF	Ground Floor	
1F	1st Floor	01	Level 01	
MF	Mezzanine Floor	MF	Mezzanine Floor	
RF	Roof	RF	Roof	
UR	Upper Roof	UR	Upper Roof	
AL	All Levels (a single model contain all levels)	AL	All levels (of a specific building zone)	
N/A	N/A	ES	Reference level from engineering survey	
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	WB	Whole Building	

# 2. ArchSD – Building Services Installation

# 2.1. Fields Mapping Table

The naming convention of ArchSD BIM Guide for Building Services Installation (thereafter referred to as ArchSD BS Guide) is extracted below:

Table App XII-3 Field Mapping for ArchSD BS Guide

This Guide			ArchSD			
Field/ Sub- field No.	Information Container ID Field	Remark	Naming Field	Field Description	Code Mapping	
1	Project Code		InForM Number	InForM number of the project	Not required	
2	Originator		Agent Responsible Code	ble 3 characters (alphanumeric) for Agent Responsible Code, e.g.: ADA for architectural discipline of ArchSD ADB for building services discipline of ArchSD ADS for structural discipline of ArchSD		
3.1	Volume		Zone / Block	Identifier of building zone, block or phase of the project, e.g.:  Zone 1: "Z01"  No zoning: "All" should be used in this field		
5.1	Discipline		System	2 characters (alphabetic) for short form of system R		
6.2	Characteristic		Туре	1 character (alphabetic) define the status of the project	Not required	

This Guide				ArchSD		
Field/ Sub- field No.	Information Container ID Field	Remark	Naming Field	Field Description	Code Mapping	
N/A	N/A	BIM Model Project Information	Description	3 characters (alphabetic) describe the use of model, e.g.:  Code Use Workstage involved P01 Presentation 1-6 D01 SCCU Drainage Submission 3-6 T01 Tender 4 WIP Work in Progress 1-6 X01 Design Option 1-4	N/A	

### 2.2. Fields Mapping Diagram

Figure App XII-2 Field Mapping Diagram for ArchSD BS Guide ArchSD - BIM Guide for Building InforM No. Zone/ Block Description System (2) Services Installation (4) (3) ArchSD upload BIM Model models to Project Information BIM DR ND201901-ACM-C1-X-M3-DR8/SW.dwg Properties Field 4.2 Field 1 Field 2 Field 3.1 Field 3.2 Field 4.1 Field 5.1 Field 5.2 Field 6.1 Field 6.2 General Summary Statistics Custom Project Code (1-8) Location Sub-**Proposed Revamped** Originator Volume (1-3) System (1-3) Level (1-2) Discipline (1-2) Type (1-2) Characteristic Identifier Discipline (1-2) Custom properties: Naming (1-4)Add... Name Organization Name Delete Project Issue Date Client Name Project Address Project Name Example: Project Number CE1314 ACM C2 BD VC WB LG C2 Visitor Centre -BS МЗ **Lighting Model** (Whole (Building (Visitor (AECOM) (Building) (3D Model) (New Work) (Contract 2) (Lighting) Services) Centre) Building) Example: CE1314 ACM C1 SD SD C1 Stormwater XX M3 N **Drainage Model** (Stormwater Drainage) (Stormwater (Non-Specific (AECOM) (Contract 1) (3D Model) (New Work) I BIM DR <u>O</u>K Cancel Drainage) Location) ArchSD download models from BIM DR ArchSD - BIM Guide for Building ARC (3) InforM No, Description Text file export Services Installation

#### 2.3. ArchSD's Fields that Match with this Guide

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

- a) Field 1 Agent Responsible Code and Field 5 Type are the same as the Originator and Characteristic fields of this Guide.
- b) Fields 2 InForM No. and Field 3 Zone/System/Block are equivalent to the Project Code and Volume fields of this Guide. As these fields are project specific with no standard codification system, mapping is not required.
- c) Field 6 Description could be included in the BIM Model Project Information as BIM attributes. BIM Model Project Information 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.

#### 2.4. ArchSD's Fields that Needs to be Mapped

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

Table App XII-4 Codes Mapping for ArchSD BS Guide

		T		
ArchSD	BS Guide	BIM Harmonisation Guidelines		
Field 4: System	n (2 characters)	Field 5.1 Discipline (2 characters)		
Codes	Definition	Codes	Definition	
BS	Building Services	BS	Building Services	
EE	Electrical	EL	Electrical	
FS	Fire Service	FS	Fire Services	
AC	Air-conditioning		range as a sub-discipline Services (refer to EMSD)	
N/A	N/A	AR	Architectural	
N/A	N/A	CD	Chilled Water Distribution	
N/A	N/A	FO	Sewerage	
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	LA	Landscape	
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	

ArchSl	D BS Guide	BIM Harmonisation Guidelines		
Field 4: Syste	em (2 characters)	Field 5.1 Discipline (2 characters)		
Codes	Definition	Codes	Definition	
N/A	N/A	SL	Slope	
N/A	N/A	ST	Structural	
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	

- 3. ArchSD Structural Engineering
- 3.1. Fields Mapping Table

The naming convention of ArchSD BIM Guide for Structural Engineering (thereafter referred to as ArchSD SE Guide) is extracted below:

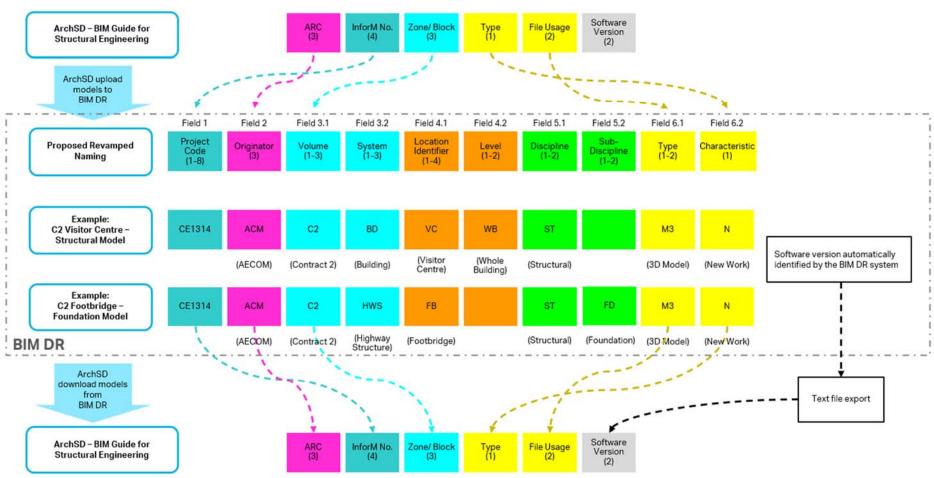
Table App XII-5 Field Mapping for ArchSD SE Guide

	This Guide			ArchSD			
Field/ Sub-field No.	Information Container ID Field	Remark	Naming Field	Field Description	Code Mapping		
1	Project Code		InforM No.	InForM No. (Project Number)	Not required		
2	Originator		Agent Responsible Code	Agent Responsible Code "ADS" stand for Architectural Services Department, Structural Engineer Branch	Not required		
3.1	Volume		Zone/ Block	Required if project is subdivided by zone or block (default=ALL)	Not required		
4.2	Sub-location		Туре	Type N: New work, T: Temporary work, E: EXIIsting, D: Demolition, W: All work	Not required		
6.1	Туре		File Usage	File Usage:  MO for Structural Model  SH for Drawing Sheet Set  CO for Combined with Structural and Drawing Sheet Set	Required		

This Guide			ArchSD			
Field/ Sub-field No.	Information Container ID Field	Remark	Naming Field Field Description		Code Mapping	
				GI for Site Formation and Ground Investigation Model		
N/A	N/A		Software Version Version 16 for version 2016		N/A	

### 3.2. Fields Mapping Diagram

Figure App XII-3 Field Mapping Diagram for ArchSD SE Guide



#### 3.3. Fields that Match with this Guide

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

- a) Field 1 Agent Responsible Code and Field 4 Type are the same as the Originator and Characteristic fields of this Guide.
- b) Fields 2 Inform No. and Field 3 Zone/System/Block are equivalent to the Project Code and Volume fields of this Guide. As these fields are project specific with no standard codification system, mapping is not required.
- c) Software (and its version if applicable) by which a model is produced shall be automatically identified by the BIM DR system. Therefore, the Software Version as in Field 6 of the naming convention of ArchSD SE Guide need not be provided to the BIM DR. The software versions could be exported from the BIM DR upon request.

### 3.4. Fields that Needs to be Mapped

The nature of Field 5 File Usage is equivalent to the Type field which is adopted as Field 6.1 of this Guide. It is suggested that the list of standard codes for Type to be extended in the future to incorporate the File Usage codes from ArchSD SE.

A	ArchSD SE Guide	BIM Harmonisation Guidelines			
Field 5:	File Usage (2 characters)	Field 6.1 Type (2 characters)			
Codes	Definition	Codes	Definition		
MO	Structural Model	M3	3D Model File		
SH	Drawing Sheet Set	DR	2D Drawing Rendition (General)		
СО	Combined with Structural and Drawing Sheet Set	CM	Combined Model (Combined Multidiscipline		

Table App XII-6 Codes Mapping for ArchSD SE Guide

ArchSD SE Guide		BIM Harmonisation Guidelines	
Field 5: File Usage (2 characters)		Field 5.1 and 5.2 Discipline and Sub- discipline	
Codes	Definition	Codes	Definition
GI	Ground Investigation Model	SF_GI	Ground Investigation