

**Layer Naming for
Data Alignment Measures Common Spatial Units (DAM CSUs)**

Scope

This Practice Note serves to promulgate and standardize the format of layer names of CAD drawings to facilitate data exchange among government departments and the updating of Data Alignment Measures Common Spatial Units (DAM CSUs)

Applicability

2. This Practice Note shall be applicable when CAD drawings carrying DAM CSUs information are submitted to Architectural Services Department or DAM CSUs Data Agents, i.e. Civil Engineering and Development Department for Slope CSU and Lands Department for Building, Lot and Road Centreline CSUs.

Background

3. Some Departments in HPLB and ETWB are employing geographic information system (GIS) to capture, update and analyze geographic data. There is a genuine need to exchange planning, lands and public works data from Computer Aided Drawings (CAD) system to GIS system . To facilitate data exchange among government departments and the updating of DAM CSUs, a consistent way of storing several types of features in CAD drawings is needed .

Effective Date

4. This Practice Note takes immediate effect.

Effect on Existing Practice Notes

5. This Practice Note has no effect on other CSWP Practice Notes.

Layer Naming

6. Unless otherwise specified in the DAM Final Report or as agreed between the Data Agent and Data Owner, Data Owners are recommended to adopt the proposed layer naming in export of CSU data to Data Agents; and Data Agents are recommended to make reference to the proposed layer names in the preparation of CSU data in CAD files format for data exchange . Appendix A outlines the CSU Datasets, respective layers and the proposed CSWP element codes and layer names.

Other Information

7. In case there are conflicting requirements of this Practice Note and the other parts of the CSWP , the latter should prevail.

(Raymond T M WU)
Chairperson of CSWPWG

First issued : *5 September 2007*
This Revision : *1.01.00*

Proposed Layer Naming for CSU Data by CSWP Working Group

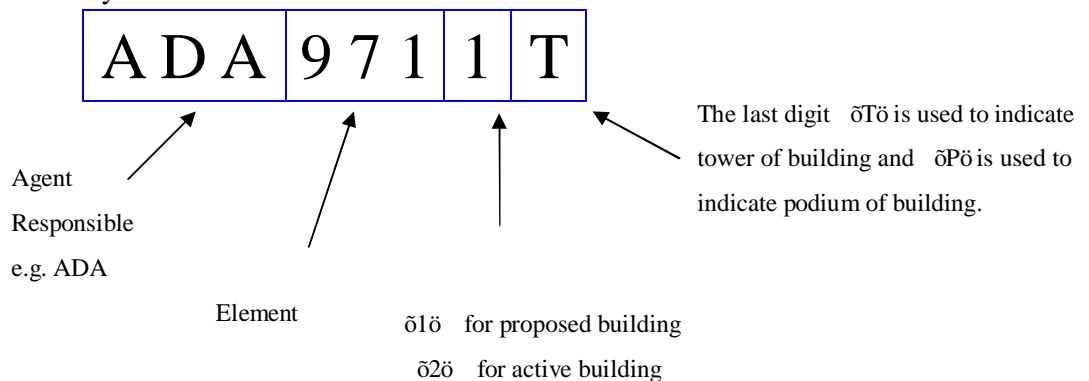
CSU	CSU Layer	Description	Proposed Layer Name by CSWP (in dissemination of CSU data)*
Building	PBLDGPOLY	Polygons of Proposed Towers	ADA9711T
	PPODPOLY	Polygons of Proposed Podiums	ADA9711P
	BLDGPOLY	Polygons of Active Towers	ADA9712T
	PODPOLY	Polygons of Active Podiums	ADA9712P
	DBLDG	Polygons of Demolished Towers	ADA9713T
	DPOD	Polygons of Demolished Podiums	ADA9713P
Lot	LOT	Polygons of Lot Boundary	SMO9132L
	OVERLAPLOT	Polygons of Overlapping Lot Boundary	SMO9132V
Road Centreline	Road Segment Layer	Linear features of the Active Road Network	HRD8112L
	Road Intersection Layer	Node features of the Active Road Intersections	HRD8112N
Slope	Cut Slope Polygon	Boundary of Cut/ Cut & Retaining Slope Feature	CGE1251A
	Fill Slope Polygon	Boundary of Fill slopes /Fill & Retaining slope feature	CGE1251B
	Retaining Wall Polygon	Boundary of Retaining Wall Feature	CGE1251C
	Disturb Terrain Polygon	Boundary of the Disturb Terrain Feature	CGE1251D
	Natural Terrain Stabilization Measures Polygon	Boundary of Natural Terrain Stabilization Measures	CGE1251E

CSU	CSU Layer	Description	Proposed Layer Name by CSWP (in dissemination of CSU data)*
	Natural Terrain Defence Measures Polygon	Boundary of Natural Terrain Defence Measures Feature	CGE1251F
	Maintenance Responsibility Polygon	Maintenance Responsibility Boundary of the Registered Slope Feature.	SIM1251G
	Overlapped Maintenance Responsibility Polygon	Maintenance Responsibility Boundary of the Registered Slope Features that are Overlapped with Other Features	SIM1251H

* The ARC code as indicated is an example. Party who prepare the drawings shall provide its own ARC code in the layer name.

Note:

1. Explanatory notes for Building CSU Layer Name:
 - 1.1. CSWP Class 971 is used for Building CSU Layer.
 - 1.2. In the 4th digit,
 - ø1ö for proposed building
 - ø2ö for active building
 - ø3ö for demolished building
 - 1.3. The last digit øTö is used to indicate tower of building and øPö is used to indicate podium of building.
 - 1.4. Agent Responsible Code should also be added at the beginning of the Layer Name.
 - 1.5. The Layer Name format should be:



2. Explanatory notes for Lot CSU Layer Name:

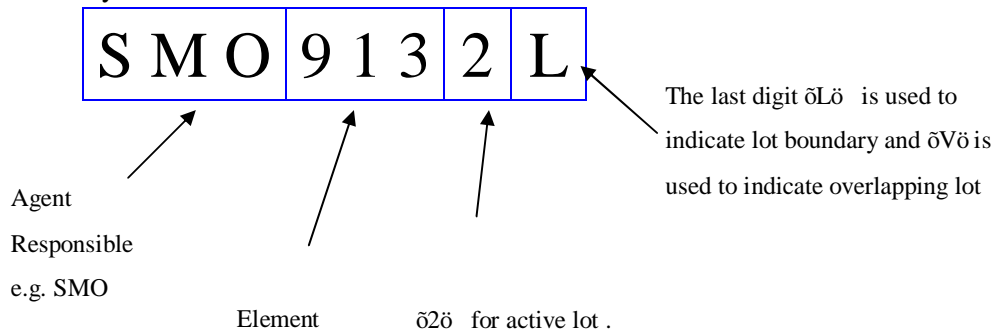
2.1. CSWP Class 913 is used for Lot Boundary Layer.

2.2. In the 4th digit,
020 for active lot .

2.3. The last digit 0L0 is used to indicate lot boundary and 0V0 is used to indicate overlapping lot boundary.

2.4. Agent Responsible Code should be added at the beginning of the Layer Name.

2.5. The Layer Name format should be:



3. Explanatory notes for Road Centreline CSU Layer Name:

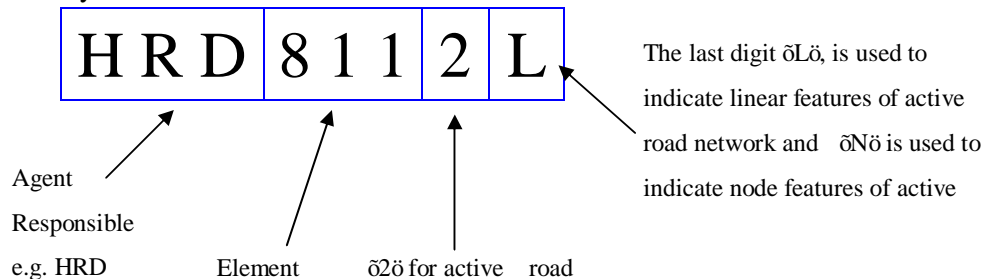
3.1. CSWP Class 811 is used for both Road Segment Layer and Road Intersection Layer.

3.2. In the 4th digit,
020 for active road

3.3. The last digit 0L0, is used to indicate linear features of active road network and 0N0 is used to indicate node features of active road intersection.

3.4. Agent Responsible Code should be added at the beginning of the Layer Name.

3.5. The Layer Name format should be:

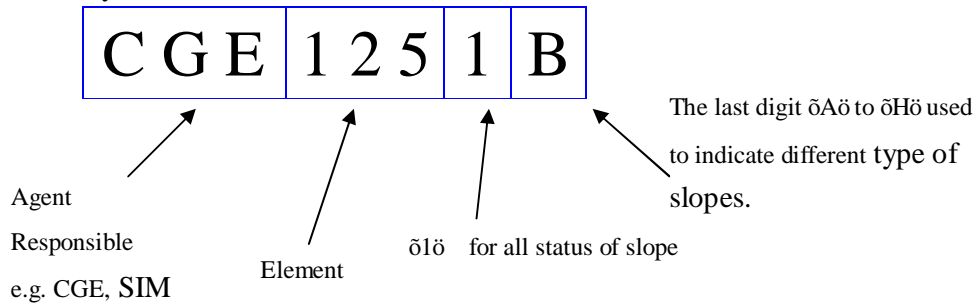


4. Explanatory notes for Slope CSU Layer Name:

4.1. CSWP Class 125 is used for Slope Layer.

4.2. In the 4th digit,
010 for all status of slope

- 4.3. The last digit 0A0 to 0H0 used to indicate different type of slopes.
- 4.4. Agent Responsible Code should be added at the beginning of the Layer Name.
- 4.5. The Layer Name format should be:



- 4.6. Textual data exchange and updating to follow WBTC No. 9/2000 via Slope Information System which could be accessible on Internet(<http://hkss.cedd.gov.hk>).
- 5. Explanatory notes for handling Textual Attributes in drawings with Building CSU:
 - 5.1. For AutoCAD dwg files, Textual Attributes should be linked to a 0POLYGON0 entity with unique HANDLE created inside the building polygon. The HANDLE of the 0POLYGON0 entity should be exported to external Dbase IV as well.
 - 5.2. For Microstation dgn files, Textual Attributes should be linked to a 0POLYGON0 entity with unique MSLINK created inside the building polygon. The MSLINK of the 0POLYGON0 entity should be exported to external Dbase IV as well.
 - 5.3. Data structure should be:

Data Structure of building CSU				Data Item Format in DAM Final Report	Description
Field	WIDTH	TYPE	N.DEC		
MSLINK	10	N	0	N(10)	For Microstation dgn files - linked to the 0POLYGON0.
HANDLE	10	C	-	N/A	For AutoCAD dwg files -handle of the "POLYGON" with unique alphanumeric tag
CATEGORY	3	C	-	X(3)	Building Category
BLDG_CSUID	19	C	-	X(19)	Unique identification of the entities (provided by LandsD)

ST_AB_POD	3	N	-	N(3)	Storeys above podium
ST_IN_POD	3	N	-	N(3)	Storeys in podium
ST_IN_BASE	3	N	-	N(3)	Storeys in basement
COMP_YEAR	4	N	-	N(4)	Completion year
COMP_MONTH	3	N	-	N(3)	Completion month
COMP_DAY	3	N	-	N(3)	Completion day
BD_TOP_LEV	8	N	2	N(8,2)	Approximate building top level.
DATACREATE	8	Date	-	Date	Data Create Date.
DEMO_DATE	8	Date	-	Date	Demolition Completion Date, NULL for building had not been demolished.