Amendments on DAM Data Specification as at 24 March 2006

1. Objective

To amend / enhance data specifications in DAM Final Report in respect of Building CSU and Road Centreline CSU data.

2. Background

Lands Department (LandsD) is the Data Agent of Building CSU, Lot CSU and Road Centreline CSU Data. LandsD prepared the initial set of 20K+ Building CSU data to Data Owners (DOs) and Data Provider (DP) in late August 2005 for entry of attribute information under their jurisdiction. From the sample data returned by DOs and DP, it is found that some data specifications in DAM Final Report need to be modified / enhanced to meet operational need of the DAM implementation. The amendments / enhancements were discussed among DOs and DP with the presence of HPLB's representative in a Building CSU Sub-Working Group Meeting held on 14.12.2005. Agreements were reached among DOs and DP on the amendments / enhancements as detailed in Section 3.

Regarding Road Centreline CSU data, LandsD has also, in its course of preparing the initial dataset, identified discrepancy in the data specifications in the DAM Final Report. The amendment is to match with definition of same data type in other parts of the DAM report and this will avoid problems in data manipulation and data integration.

3. Part A -- Building CSU

3.1 Amendment no. 1

Description

To add a deletion table listing out those invalid Building CSU data which should be removed from the dataset.

Table Description: Deleted CSU

Data Item	Description	Format	Mandatory
Deleted Concatenated ID	Concatenation of Geo Ref No, Polygon Type and Record Creation Date of the deleted CSU ID	X(19)	Y
Reason of Deletion	Reason of Deletion: M = mistakenly added to the proposed podium/ tower layer W = withdrawn from the proposed podium/ tower layer R = the podium/ tower defined as ruin and placed on BLDG layer in CLIS O = Other reason	X(1)	Y
Date of Deletion	Date when the record is deleted	Date	Y

Constraint Description

Type	**Data Item**
PK	Deleted Concatenated ID

Data Ownership

All records	LandsD

Justification

There may be the occasions that a building polygon i) is mistakenly added to the proposed podium/tower layer, or ii) has to be withdrawn from the proposed podium/tower layer when the developer withdraws its application or stops its construction etc. or iii) becomes a ruin. The deletion table helps the DOs and Data Users to remove the invalid records from their systems.

3.2 Amendment no. 2

Description

To extend the field length of items “ENG_BLDNM” and “CHI_BLDNM” as follows:

Section (DAM Report)	Table Name	Data Item	Format	
			Original	Revised
4.5.17 (Vol 2B, p. 4-30)	Building Name	Full Eng Bldg Name	X(100)	X(195)
		Full Chi Bldg Name	CX(50)	CX(85)

Justification

(a) Item ENG_BLDNM (Full English Building Name) at table BLDNM (Building Name) [Volume 2B,Page 4-30]
According to the description of this data item, it is combined from items ‘ENG_BLDNM1’ [X(35)], ‘ENG_BLDNM2’ [X(35)], ‘ENG_BLDNM3’ [X(35)], ‘ENG_BK_DES’ [X(35)], ‘BKNO_NUM’ [N(5)], ‘BKNO_ALP’ [X(10)] and ‘BKNO_ALPOR’ [X(1)] when item ‘ADD_SOUR’ = ‘R’. By adding up the length of the said individual items, the total length of item ENG_BLDNM (full English Building Name) should be 156 characters. However, the length of this item is defined to be 100 characters and truncation of the full English building name may occur. In addition, the field length should be long enough to accommodate English building names from RVD as she may insert the development name into the Full English Buidling Name.

(b) Item CHI_BLDNM (Full Chinese Building Name) at table BLDNM (Building Name) [Volume 2B,Page 4-30]
According to the description of this data item, it is combined from items ‘CHI_BLDNM1’ [CX(14)], ‘CHI_BLDNM2’ [CX(14)], ‘CHI_BLDNM3’ [CX(14)], ‘CHI_BK_DES’ [CX(14)], ‘BKNO_NUM’ [N(5)], ‘BKNO_ALP’ [X(10)] and ‘BKNO_ALPOR’ [X(1)] when item ‘ADD_SOUR’ = ‘R’. By adding up the length of the said individual items, the total length of item CHI_BLDNM (Full Chinese Building Name) should be 64 Chinese characters [assuming two bits for 1 Chinese character]. However, the length of this item is defined to be 50 characters and truncation of the full Chinese building name may occur. In addition, the field length should be long enough to accommodate Chinese building names from RVD as she may insert the development name into the Full Chinese Buidling Name.

3.3 Amendment no. 3

Description

(a) To modify constraint of the following items by adding default values '-11' and '-99':

Section (DAM Report)	Table Description	Data Item	Validation	
			Original	Revised
4.5.10 (Vol 2B p. 4-20)	Building Structural Info	Storeys Above Podium	>0	>=0, -11 or -99
		Storeys In Podium	>0	>=0, -11 or -99
		Storeys In Basement	>0	>=0, -11 or -99
		Completion Year	>1800	>1800, -11 or -99
		Completion Month	Between 1 and 12	Between 1 and 12, -11 or -99
		Completion Day	Between 1 and 31	Between 1 and 31, -11 or -99
		Approximate Building Top Level	>0	>0, -11 or -99
		GFA	>0	>0, -11 or -99
4.5.14 (Vol 2B p. 4-27)	Building Lot No In OP	Ext Portion	Between 1 and 9	Between 1 and 9, -11 or -99
		Misc No	>0	>0, -11 or -99
4.5.18 (Vol 2B p. 4-34)	Building Address	Block No Num	>0	>0, -11 or -99
		Bldg No Num	>0	>0, -11 or -99

Note

- '-99' is used for the first initial Building CSU dataset to represent that data is not available.
- '-11' is used to represent that data is not available after the implementation of CSU DDS.

(b) To modify field lengths of the following data items arising from the addition of default values:-

Section (DAM Report)	Table Name	Data Item	Format	
			Original	Revised
4.5.3 (Vol 2B, p. 4-9)	Building Geographical Info	Category	X(1)	X(3)
4.5.10 (Vol 2B, p. 4-17, 4-18)	Building Structural Info	Storeys In Podium	N(2)	N(3)
		Storeys In Basement	N(2)	N(3)
		Completion Month	N(2)	N(3)
		Completion Day	N(2)	N(3)
4.5.14 (Vol 2B, p. 4-26, 4-27)	Building Lot No In OP	Subsection 2	X(2)	X(3)
		Subsection 3	X(2)	X(3)
		Ext Portion	N(1)	N(3)
4.5.18 (Vol 2B, p. 4-32, 4-33 & 4-34)	Building Address	Block No Alpha Prec Ind	X(1)	X(3)
		Block Desc Prec Ind	X(1)	X(3)
		Bldg No Alpha	X(2)	X(3)
		Unofficial Address Code	X(1)	X(3)
		Bldg No Confirm Code	X(1)	X(3)
		Eng Addr Verify Code	X(1)	X(3)
		Chi Addr Verify Code	X(1)	X(3)
4.5.19 (Vol 2B, p. 4-36)	Street Location	Location Nature	X(1)	X(3)
4.5.20 (Vol 2B, p. 4-37)	Street Name	Eng Type Prec Ind	X(1)	X(3)
		Chi Type Prec Ind	X(1)	X(3)

Justification

With reference to Vol. 2B of DAM Final Report, since data type of the above items in table (a) is numeric and they are non-mandatory items, their default values will be set to “0” if no values are entered. It is found that the default value “0” of these items contradicts with their original constraint values. In addition, there is ambiguity in the default value itself that all DOs share similar views during the course of entering their responsible attributes in the sample Building CSU dataset. This is because value “0” can have two meaning. The first one is that no information is available. The second meaning is that the value of this item is zero. Data users are unable to differentiate which is the correct meaning of the item if “0” is adopted as the default value. The revised two new default values can avoid the said ambiguity.

3.4 **Amendment no. 4**

Description

To modify the below data items from “TIMESTAMP” to “DATESTAMP” and their descriptions:

Section (DAM Report)	Table Name	Data Item		Description	
		Original	Revised	Original	Revised
4.5.3 (Vol 2B p. 4-10)	Building Geographical Info	Timestamp	Datestamp	"Date and time when …"	"Date when …"
4.5.4 (Vol 2B p. 4-12)	Proposed Tower Polygon	Timestamp	Datestamp	"Date and time when …"	"Date when …"
4.5.5 (Vol 2B p. 4-12)	Proposed Podium Polygon	Timestamp	Datestamp	"Date and time when …"	"Date when …"
4.5.6 (Vol 2B p. 4-13)	Active Tower Polygon	Timestamp	Datestamp	"Date and time when …"	"Date when …"
4.5.7 (Vol 2B p. 4-14)	Active Podium Polygon	Timestamp	Datestamp	"Date and time when …"	"Date when …"
4.5.8 (Vol 2B p. 4-14)	Demolished Tower Polygon	Timestamp	Datestamp	"Date and time when …"	"Date when …"
4.5.9 (Vol 2B p. 4-15)	Demolished Podium Polygon	Timestamp	Datestamp	"Date and time when …"	"Date when …"
4.5.10 (Vol 2B p. 4-19)	Building Structural Info	Timestamp	Datestamp	"Date and time when …"	"Date when …"
4.5.11 (Vol 2B p. 4-21)	Geo-Struct Mapping	Timestamp	Datestamp	"Date and time when …"	"Date when …"
4.5.23 (Vol 2B p. 4-39)	Participating Department	Last Upload Date		"Date and time when …"	"Date when …"
4.5.24 (Vol 2B p. 4-41)	Renamed CSU	Timestamp	Datestamp	"Date and time when …"	"Date when …"

Justification

With reference to the DAM Final Report, there is inconsistency between the format of the items TIMESTAMP and UPLOADDATE and their descriptions. The format of these items is date whereas their descriptions define that both date and time information are required.

The time information is not essential for the on-going data update. This is because each data update will replace the relevant record previously stored in the CSU dataset. The revised amendment is to let the data item name and its description better reflect the actual operation of the DAM implementation and align with the format of the item as adopted in the DAM Final Report.

3.5 Amendment no. 5

Description

To change the item status of following data items:-

Section (DAM Report)	Table Name	Data Item	Mandatory	
			Original	Revised
4.5.15 (Vol 2B p. 4-28)	Development Name	Eng Dev Name	Y	N
		Chi Dev Name	Y	N

Justification

In some cases, there is only English OR Chinese Development Name but not both. It is difficult for DOs to enter the information if both English and Chinese Development Names are mandatory item fields in the prevailing DAM data specification.

3.6 Amendment no. 6

Description

To enhance the Building Structural Info table by adding a new item for storing the number of storey provided by C&SD.

Section: 4.5.10 [DAM Final Report (Volume 2B)] **Page No.:** 4-17

Table Description: Building Structural Info

Item Location: Between data items "Storeys In Basement" and "Storeys Remarks"

Data Item	Description	Format	Mandatory
Total Storeys from C&SD	This refers to the statistics compiled from the data on floor number of quarters in the Register of Quarters System (RQS) by the Census and Statistics Department (C&SD). C&SD maintains the data on floor number mainly for supporting the conduct of population censuses/by-censuses and other household surveys and thus the counting rule of no. of storeys in a building being adopted is based on this business need. In particular, the following are some examples for counting no. of storeys in a building: (1) Individual floor number will be counted if there is a public access to these floors even though quarters on these floors are internally connected. (2) The counting is 1 if two or more storeys are internally connected without public access/staircase, e.g. penthouse. (3) For low rise houses/villas/bungalows, the counting is 1 if all floors in these building are internally connected during the time of updating. (4) For newly erected private high rise buildings, the counting will basically follow the details specified in the occupation permits. For the public housing estates and government buildings, the information on the no. of storeys is obtained through site visits. Please note that this value is only available for the building polygons existing in the initial Building CSU dataset. This value will not be updated thereafter.	N(3)	N

Constraint Description

Type	Data Item	Validation
CK	Total Storeys from C&SD	>0, -11 or -99

Justification

With reference to Sect 4.5.10 of Vol 2B of the DAM Final Report, there are 3 items about no. of storeys which are ST_AB_POD (Storeys Above Podium), ST_IN_POD (Storeys In Podium) and ST_IN_BASE (Storeys In Basement). The priority of adopting which values from Data Providers in the one-off data conversion for these items is described in Sect. 3.2.6 and 3.2.7 of Appendix E of Vol 3B of the DAM Final Report. When the values from BD and PlanD are not available, the C&SD's values would be adopted. It is noted from the sample Building CSU data returned by C&SD, C&SD can only provide the data on total no. of storeys as the breakdown of the no. of storeys in each building into no. of storeys above podium, no. of storeys in podium and no. of

storeys in basement cannot be made available from the RQS. In addition, the definition of the storey as highlighted in the above table is different from other DOs. Thus, the data of this item is included in the Building CSU dataset for acting as the only reference information.

4. Part B -- Road Centreline CSU

4.1 Amendment no. 7

Description

To change the format of following items in DAM Final Report Vol 2D:

Section (DAM Report)	Table Name	Data Item	Format	
			Original	Revised
4.5.3 (Vol 2D p.4-4)	Road Segment Layer	Start Intersection	N(10)	X(10)
		End Intersection	N(10)	X(10)
4.5.4 (Vol 2D p.4-6)	Road Intersection Layer	Geo Reference Number	N(10)	X(10)
4.5.5 (Vol 2D p. 4-7)	Road Intersection	Geo Reference Number	N(10)	X(10)

Justification

If the data are in numeric format, the preceding zero(s) of the record will be truncated automatically. When the format is changed to X(10), the problem can be avoided and it matches with the data format of GEO_REFNO of Building that is also of X(10).

Prepared by : DDS Unit, LandsD

Revised on : 24 March 2006