13. Metadata

13.1 Prerequisites

(1) Metadata must use Backus form (BNF, description for ALGOL60).

(2) Only those codes for information exchange that are defined by the ISO can be used, except country selection codes.

	0	1	2	3	4	5	6	7
0	NUL	TC7 (DLE)	SP	0		P		p
1	TC1 (SOH)	DC1	!	1	A	Q	a	q
2	TC2 (EXT)	DC2	“	2	B	R	b	r
3	TC3 (EOT)	DC3		3	C	S	c	s
4	TC4 (EOT)	DC4		4	D	T	d	t
5	TC5 (ENQ)	TC8 (NAK)	%	5	E	U	e	u
6	TC6 (ACK)	TC9 (SYN)	&	6	F	V	f	v
7	BEL	TC10 (ETB)	‘	7	G	W	g	w
8	FE0 (BS)	CAN	(	8	H	X	h	x
9	FE1 (HT)	EM	)	9	I	Y	i	y
A	FE2 (LF)	SUB	*	:	J	Z	j	z
B	FE3 (VT)	ESC	+	;	K		k	
C	FE4 (FF)	IS4 (FS)	,	<	L		l	
D	FE5 (CR)	IS3 (GS)	-	=	M		m	
E	SO	IS2 (RS)	.	>	N		n	
F	SI	IS1 (US)	/	?	O	_	o	DEL

(3) A comment must be enclosed in "/*" and "*/".

13.2 Syntax Definition

13.2.1 Definition of A Sequence of Management Header Tables of All Data Management Frame

13.2.1.1 Metavariable Definition

<Main map>::= " main_map "

<Route planning>::= " route_planning"

<Address location>::= " address_location "

<VICS>::= " VICS "

<ATIS>::= " ATIS "

<Size load map>::= " size_load_map "

<Various options>::= " various_options "

<Voice data>::= " voice "

<Management header table identifier>::= <Main map>|<Route planning>|<Address location>|
<VICS>|<ATIS>|<Size load map>|<Various options>|<Voice data>

<A sequence of management header tables>::= " DMHT " ••• Data volume Management Header Table

13.2.1.2 Syntax Rules

<A sequence of management header tables>

::=<Management header table identifier>[|,<Sequence of management header tables>];

13.2.1.3 Example

DMHT ::= main_map , route_planning , address_location , VICS , size_load_map ;

13.2.2 Definition for A Sequence of Reference Records (Block Management Table) to Parcel Management Information of Basic Data Frame

13.2.2.1 Metavariable Definition

<Main map>::= " MainMap "

<Route guidance>::= " RouteGuigance"

<Mesh management basic list identifier>::=<Main map>|<Route guidance>

<Sequence of reference records for basic parcel management information>::= " RBPM " ••• a Row of Basic Parcel Management table

13.2.2.2 Syntax Rules

<Sequence of reference records for basic mesh management information>

::=<Mesh management basic list identifier>[|,<Sequence of reference records for basic mesh management information>];

13.2.2.3 Example

RBPM ::= MainMap , RouteGuigance ;

13.2.3 Definition for A Sequence of Main Map Basic Data Frames

13.2.3.1 Metavariable Definition

<Road data frame>::= " RoadDataFrame "

<Road data frame>::= " BackgroundDataFrame "

<Name data frame>::= " NameDataFrame "

<Attached data frame A>::= " AttachedDataFrameA "

<Attached data frame B>::= " AttachedDataFrameB "

<Infrastructure link data frame>::= " InfraDataFrame "

<Main map basic data frame identifier>::= <Road data frame>|<Road data frame>|
<Name data frame>|<Attached data frame A>|
<Attached data frame B>

<Sequence of main map basic data frames>::= " MBDF " ••• Main map Basic Data Frame

13.2.3.2 Syntax Rules

<Sequence of main map basic data frames>

::=<Main map basic data frame identifier>[|,<Sequence of main map basic data frames>];

13.2.3.3 Example

MBDF ::= RoadDataFrame , BackgroundDataFrame , NameDataFrame;

13.2.4 Display Class Definition

13.2.4.1 Metavariable Definition

<Display class identifier>::=Not defined

<Display class>::=1..16

<Display class definition>::=Not defined

13.2.4.2 Syntax Rules

<Display class definition>::=<Display class> <Display class identifier>[|,<Display class definition>] ;

13.2.4.3 Example

13.2.5 Road Class Code Definition

13.2.5.1 Metavariable Definition

<Highway>::= “ superhighway ”

<Urban highway>::= “ motorway ”

<National road>::= “ national_road ” | “ highway ”

<Prefectural road>::= “ state_road ” | “ province_road ” | “ county_road ” | “ prefectural_road ”

<Main district road>::= “ thoroughfare_road ”

<Basic road>::= “ street ”

<General road 1>::= “ road1 ”

<General road 2>::= “ road2 ”

<Narrow road 1>::= “ side_road1 ”

<Narrow road 2>::= “ side_road2 ”

<Narrow road 3>::= “ side_road3 ”

<Ferry route>::= “ ferry ”

<Planned road>::= “ plan_road ”

<Car train>::= “ car_train ”

<Road type>::= <Highway>|<Urban highway>|<National road>|<Prefectural road>|<Main district road>|
<Basic road>|<General road 1>|<General road 2>|<Narrow road 1>|<Narrow road 2>|<Narrow road 3>|
<Ferry route>|<Planned road>|<Car train>

<Road class code definition>::= “ ROOT ”

<Code>::=Digit[|Digit...]

13.2.5.2 Syntax Rules

<Road class code definition>::=<Code> <Road type>[|,<Road class code definition>] ;

13.2.5.3 Example

ROOT ::=1 superhighway,1 motorway ,2 national_road ,3 county_road ,...;

13.2.6 Number of Stored Languages and Type Definition

13.2.6.1 Metavariable Definition

<Language type>::=Specify the general name of a language in English.

(Example) <Japanese>::= “ Japanese ”
<English>::= “ English ”
<French>::= “ French ”
<German>::= “ German ”
<Spanish>::= “ Spanish ”
<Italian>::= “ Italian ”
<Portuguese>::= “ Portuguese ”
<Greek>::= “ Greek ”
<Dutch>::= “ Dutch ”
<Russian>::= “ Russian ”
<Chinese>::= “ Chinese ”
<Korean>::= “ Hangul ”

<Number of stored languages and type definition>::= “ LANG ” LANGuage

13.2.6.2 Syntax Rules

<Number of stored languages and type definition>::= <Language type>[|,<Number of stored languages and type definition>] ;

13.2.6.3 Example

LANG ::= Japanese ;

13.2.7 Character Code Definition

13.2.7.1 Metavariable Definition

<ISO>::= “ ISO ”

<SJIS>::= “ SJIS ”

<ANSI>::= “ ANSI ”

<EUC>::= “ EUC ”

<EBCDIC>::= “ EBCDIC ”

<EBCDIK>::= “ EBCDIK ”

<Character code definition>::= “ CHCD ” ••• CHaracter CoDe

13.2.7.2 Syntax Rules

<Character code definition>::= <ISO>|<SJIS>|<ANSI>|<EUC>|
<EBCDIC>|<EBCDIK>

13.2.7.3 Example

CHCD = SJIS

13.2.8 Speed Limit Definition

13.2.8.1 Metavariable Definition

<Kilometer>::= “ km ”

<Mile>::= “ mile ”

<Speed limit unit>::=<km>|<mile>

<Speed limit value>::=0|1|2|3|...|13|14

<Lower speed limit>::=<Lower speed limit specification>|Sequence of digits

<Upper speed limit>::=<Upper speed limit specification>|Sequence of digits

<Lower speed non-restriction specification>::= ‘ * ’

<Upper speed non-restriction specification>::= ‘ * ’

<Speed limit definition>::= “ SPDL ” a SPeeD Limit

13.2.8.2 Syntax Rules

<Speed limit definition>::=<Speed limit unit>,<Sequence of speed limit specifications>;

<Sequence of speed limit specifications>::= <Speed limit value> <Lower speed limit> “-” <Upper speed limit> [|,<Sequence of speed limit specifications>]

13.2.8.3 Example

SPDL ::= km,0 *-9,1 10-19,2 20-29,3 30-39,4 40-49,5 50-59,6 60-69,7 70-79,8 80-89,9 90-99,10 100-*

13.2.9 Definition of a Media Accommodation Type Option Frame

13.2.9.1 Metavariable Definition

The metavariable definition of an option frame differs depending on the country and region.

<Country/region identifier>::=Specify the country/region name, omitting the word "the" if any.

(Example) <The United States of America>::= “ America ”
<Japan>::= “ Japan ”
<Germany>::= “ Germany ”
<France>::= “ France ”

<Country/area option frame identifier>::=Specify what has been agreed upon in each country/region.

(Example) In Japan
<VICS>::= “ VICS ”
<ATIS>::= “ ATIS ”
<Size load map>::= “ size_load_map ”
<Japanese option frame identifier>::=<VICS>|<ATIS>|<Size load map>
<Option bit position>::=0|1|2|3|4
<Definition of a media accommodation type option frame>::= “ MDIA ” media

13.2.9.2 Syntax Rules

<Definition of a media accommodation type option frame>

::=<Option bit position> <Country/region option frame identifier>

[|,<Definition of a media accommodation type option frame>];

13.2.9.3 Example

MDUA ::= 4 VICS ,3 size_load_map

13.2.10 Multiple-directory Structure Definition

13.2.10.1 Metavariable Definition

<Subdirectory name>::=ISO9660 subdirectory name

<Multiple-directory structure Definition>::= “ SUBD ” SUBDirectory

13.2.10.2 Syntax Rules

<Sequence of subdirectory names>::=<Subdirectory name>[|,<Subdirectory name>];

<Multiple-directory structure definition>::=<Sequence of subdirectory names>

13.2.10.3 Example

SUBD ::= Japn_map , America ;

13.3 Metafile Example

```
/*****************************************************************************************************************/
/* Define road class codes as follows:                                                                           */
/*  Highway = 0, urban highway = 1, national road = 2, prefectural road = 3, main district road = 4,             */
/*  basic road = 5, general road 1 = 6, general road 2 = 7, narrow road 1 = 8, narrow road 2 = 9,                 */
/*  narrow road 3 = 10, ferry route = 11, planned road = 13, car train = 13,                                     */
/*****************************************************************************************************************/
  ROOT ::=1 superhighway ,1 motorway ,2 national_road ,3 county_road ,
  4 thoroughfare_road ,5 street ,6 road1,7 road2,8 side_road1 ,
  9 side_road2 ,10 side_road3 ,11 ferry ,13. plan_road ,
  13 car_train ;

/*****************************************************************************************************************/
/* Define the number of stored languages and a type.                                                             */
/*   Only Japanese is supported.                                                                                 */
/*****************************************************************************************************************/
  LANG ::= Japanese ;
/*****************************************************************************************************************/
/* Define speed limits.                                                                                          /
/*   Define them in km/h.                                                                                        */
/*   0 means 0 to 9 km/h, 1 means 10 to 19 km/h, 2 means 20 to 29 km/h, 3 means 30 to 39 km/h,                   */
/*   4 means 40 to 49 km/h, 5 means 50 to 59, km/h, 6 means 60 to 69 km/h, 7 means 70 to 79 km/h,                 */
/*  8 means 80 to 89 km/h, 9 means 90 to 99 km/h, 10 means 100 km/h or greater.                                  /
/*****************************************************************************************************************/
  SPDL ::= km,0 *-9,1 10-19,2 20-29,3 30-39,4 40-49,5 50-59,6 60-69,7 70-79,8 80-89,9 90-99,10 100-*
```