

11.A.2.11. Nearby Data Search <Search Mesh Dependent Type>

Functions supporting emergency nearby facility search and nearby city search are configured in the same way as this frame.

11.A.2.11.1. Q-POI (nearby facility) Search Frame

This data is provided for each map specified by mesh search or the additional frame A or B of the cartographic data.

This version uses the mesh search frame.

11.A.2.11.1.1. Management Frame of Search Frame

name [Management Frame of Search Frame]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	16		Management Frame Header of Search Frame		a
2	16	B1		Detailed Search Information Record - #1		a

11.A.2.11.1.1.1. Management Frame Header of Search Frame

name [Management Frame Header of Search Frame]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	4	C	Data Declaration	'DFSR'	a
2	4	4	N	Category and Matching Data Count - G (Number of Detailed Search Information Records)	=1	a
3	8	4	SWS	Size of Detailed Search Information Record	1)	a
4	12	4	D	Offset to Detailed Search Information Record	2)	a

- 1) This field describes the size of the detailed search information record. If there are two or more records, the records must have the same size.
- 2) The displacement from the top of the search frame management frame to the first record of the sequence of detailed search information records is described, as it allows future expansion and manufacturer-specific data description.

11.A.2.11.1.2. Detailed Search Information Record

name [Detailed Search Information Record]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	4	C	Data Declaration	'SRAR'	a
2	4	4	SWS	Expansion Field Size	1)	a
3	8	4	D	Offset to Expansion Field	1)	a
4	12	4	SWS	Category Definition Frame Size	2)	a
5	16	4	D	Category Definition Frame Address	3)	a
6	20	4	SWS	Category Data Frame Size	2)	a
7	24	4	D	Category Data Frame Address	3)	a
8	28	4	C	Default Keyboard Designation	NULL	a
9	32	4	SWS	Category Parent Record Size	4)	a
10	36	4	SWS	Category Option Record Size	5)	a

No.	offset	Data length	Data type	Item name	Remarks	Classification
11	40	4	SWS	First-level Category Table Size	6)	a
12	44	4	N	Number of Option Items of First-level Category	6)	a
13	48	4	D	Offset to First-level Category	6)	a
14	52	4	C	Keyboard Designation for First-level Category	NULL	a
15	56	4	SWS	Matching Data Definition Frame Size	2)	a
16	60	4	D	Matching Data Definition Frame Address	3)	a
17	64	4	SWS	Matching Data Frame Size	2)	a
18	68	4	D	Matching Data Frame Address	3)	a
19	72	4	SWS	Size of the Record of Matching Data Frame	7)	a
20	76	4	N	Total Number of the Records of Matching Data Frame	8)	a
21	80	4	N	Default POI Information Serial Number	9)	a
22	84	4	SWS	Next-level Data Frame Size	10)	a
23	88	4	D	Next-level Data Frame Address	10)	a
24	92	B1		Character Information Data List for Representation Item	11)	a
25	O1	B2		A Sequence of Additional Frame Address(es) (#1 to #4)	3)	c
26	O2	B3		Expansion Field		c
27	O3	B4		Padding Field		c

Note: Positions of items 25 and 26 are optional in this detailed search information record because their areas can be determined by items 5, 7, 16, and 18. However, the detailed search information record size specified in the management frame header of the higher search frame must be satisfied by items 25 to 27.

1) Expansion Field Size and Offset

The field describes a displacement from the top of the detailed search information record to the top of the expansion field as the offset to the expansion field. Since this example does not have an expansion field, specify invalid values as the size and offset.

2) These fields describe the total size of the target data frame.

3) These fields describe the address of the target data frame in the representation format of 7) in Section 11.A.2.1.2.

4) This field describes the size of the category parent record.

5) This field describes the size of a single category option record.

6) Size, Number of Option Items, and Offset, of First-level Category

These fields describe the maximum size, maximum number of option items, and displacement from the top of the category data frame, of a stored category table (which contains all the option items.) (The table may correspond to any first-level category because the displacement from the top of the category table corresponding to each mesh is stored in the mesh search frame.)

7) Size of the Record of Matching Data Frame

This field describes the maximum record size in the target data frame.

8) Total Number of the Records of Matching Data Frame

This field describes the total number of records of the matching data frame.

9) Default POI Information Serial Number

This field describes the corresponding POI information number.

10) Next-level Data Frame Size and Address

Since this search frame does not manage the next-level search frame, invalid values are assigned to these fields.

11) Character Information Data List for Representation Item

Since this search frame is not directly selected by the user, no name (zero character) is specified.

ex) NULL

11.A.2.11.1.3. Category Definition Frame

No.	Usage	Description type	Description type declaration	Number of data items	Additional information	Comment	Remarks	Classification
1	'DCTF'	'REAL'	-	-	(6)	Definition Field Declaration		a
2	'SELN'	'NORM'	'UW'	1	-	Number of Option Items		a
3	'DCSF'	'REAL'	-	-	(4)	Option Definition Field Declaration		a
4	'CTGY'	'NORM'	'UW'	1	-	Category Code		a
5	'CTG2'	'NORM'	'UW'	1	-	Category Code 2		a
6	'FNST'	'OFST'	'LG'	1	-	Offset to Matching Data		a
7	'FNCT'	'NORM'	'UL'	1	-	Matching Data Count		a

11.A.2.11.1.4. Category Data Frame

name [Q-POI Category Data Frame]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	B1		A Sequence of Q-POI Category Tables		a

11.A.2.11.1.4.1. Category Table

name [Q-POI Category Table]

No.	Offset	Data length	Data type	Item name	Remarks	Classification
1	0	B1		Q-POI Category Parent Record		a
2	O1	B2		A Sequence of Q-POI Category Option(child) Records		a

name [Q-POI Category Parent Record]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	2	N	Number of Option(child) Items		a

name [Q-POI Category Option(child) Record]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	2	N	Type Code		a
2	2	2	N	Type Code 2		a
3	4	4	D	Offset to Matching Data		a
4	8	4	N	Matching Data Count		a
5	12	1	BR	Padding Field		c

11.A.2.11.1.5. Matching Data Definition Frame

No.	Usage	Description type	Description type declaration	Number of data items	Additional information	Comment	Remarks	Classification
1	'DCTF'	'REAL'	-	-	(4)	Definition Field Declaration		a
2	'CTGY'	'NORM'	'UW'	1	-	Type Code		a
3	'RLXY'	'NORM'	'P6'	1	-	Latitude and Longitude		a
4	'POIG'	'NORM'	'UW'	1	-	POI Information Serial Number	1)	c
5	'POIO'	'OFST'	'LG'	1	-	Offset to POI Information		a

1) To define POI information in two or more split parts, specify this field.

11.A.2.11.1.6. Matching Data Frame

name [Q-POI Matching Data Frame]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	B1		A Sequence of Q-POI Matching Data Records		a

name [Q-POI Matching Data record]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	2	N	Type Code		a
2	2	6	N:N	Latitude and Longitude		a
3	8	2	N	POI Information Serial Number		c
4	10	4	D	Offset to POI Information		a

11.A.2.11.2. Nearby City Search Frame

This data is provided for each map specified by mesh search or the additional frame A or B of the cartographic data.

This version uses the mesh search frame.

11.A.2.11.2.1. Management Frame of Search Frame

name [Management Frame of Search Frame]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	16		Management Frame Header of Search Frame		a
2	16	B1		Detailed Search Information Record - #1		a

11.A.2.11.2.1.1. Search Frame - Management Frame Header

name [Management Frame Header of Search Frame]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	4	C	Data Declaration	'DFSR'	a
2	4	4	N	Category and Matching Data Count - G (Number of Detailed Search Information Records)	=1	a
3	8	4	SWS	Size of Detailed Search Information Record	1)	a
4	12	4	D	Offset to the Top of Detailed Search Information Record	2)	a

- 1) This field describes the size of the detailed search information record. If there are two or more records, the records must have the same size.
- 2) The displacement from the top of the search frame management frame to the first record of the sequence of detailed search information records is described, as it allows future expansion and manufacturer-specific data description.

11.A.2.11.2.2. Detailed Search Information Record

name [Detailed Search Information Record]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	4	C	Data Declaration	'SRNC'	a
2	4	4	SWS	Expansion Field Size	1)	a
3	8	4	D	Offset to Expansion Field	1)	a
4	12	4	SWS	Category Definition Frame Size	2)	a
5	16	4	D	Category Definition Frame Address	3)	a
6	20	4	SWS	Category Data Frame Size	2)	a
7	24	4	D	Category Data Frame Address	3)	a
8	28	4	C	Default Keyboard Designation	NULL	a
9	32	4	SWS	Category Parent Record Size	4)	a
10	36	4	SWS	Category Option Record Size	5)	a
11	40	4	SWS	First-level Category Size	6)	a
12	44	4	N	Number of Option Items of First-level Category	6)	a
13	48	4	D	Offset to First-level Category	6)	a
14	52	4	C	Keyboard Designation for First-level Category	NULL	a

No.	offset	Data length	Data type	Item name	Remarks	Classification
15	56	4	SWS	Matching Data Definition Frame Size	2)	a
16	60	4	D	Matching Data Definition Frame Address	3)	a
17	64	4	SWS	Matching Data Frame Size	2)	a
18	68	4	D	Matching Data Frame Address	3)	a
19	72	4	SWS	Size of the Record of Matching Data Frame	7)	a
20	76	4	N	Total Number of the Records of Matching Data Frame	8)	a
21	80	4	N	Default POI Information Serial Number	9)	a
22	84	4	SWS	Next-level Data Frame Size	10)	a
23	88	4	D	Next-level Data Frame Address	10)	a
24	92	B1		Character Information Data List for Representation Item	11)	a
25	O1	B2		A Sequence of Additional Frame Address(es) (#1 to #4)	3)	c
26	O2	B3		Expansion Field		c
27	O3	B4		Padding Field		c

Note: Positions of items 25 and 26 are optional in this detailed search information record because their areas can be determined by items 5, 7, 16, and 18. However, the detailed search information record size specified in the management frame header of the higher search frame must be satisfied by items 25 to 27.

1) Expansion Field Size and Offset

This field describes a displacement from the top of the detailed search information record to the top of the expansion field as the offset to the expansion field.

If there is no expansion field, specify an invalid value 0 as both the size and offset.

2) These fields describe the total size of the target data frame.

3) These fields describe the address of the target data frame in the representation format of 7) in Section 11.A.2.1.2.

4) This field describes the size of the category parent record.

5) This field describes the size of a single option record of the category.

6) Record Size, Number of Option Items, and Offset of First-level Category Table

These fields describe the maximum size, maximum number of option items, and displacement from the top of the category data frame, of a stored category table (which contains all the option items.) (The table may correspond to any first-level category because the displacement from the top of the category table corresponding to each mesh is stored in the mesh search frame.)

7) Size of the Record of Matching Data Frame

This field describes the record size in the target data frame.

8) Total Number of the Records of Matching Data Frame

This field describes the total number of records of the matching data frame.

9) Default POI Information Number

This field describes the corresponding POI information number.

10) Next-level Data Frame Size and Address

Since this search frame does not manage the next-level search frame, specify an invalid value.

11) Character Information Data List for Representation Item

Since this search frame is not directly selected by the user, no name (zero character) is specified.

ex) NULL

11.A.2.11.2.3. Category Definition Frame

No.	Usage	Description type	Description type declaration	Number of data items	Additional information	Comment	Remarks	Classification
1	'DCTF'	'REAL'	-	-	(6)	Definition Field Declaration		a
2	'SELN'	'NORM'	'UW'	1	-	Number of Option Items		a
3	'DCSF'	'REAL'	-	-	(4)	Option Definition Field Declaration		a
4	'CTGY'	'NORM'	'UW'	1	-	Category Code		a
5	'CTG2'	'NORM'	'UW'	1	-	Category Code 2		a
6	'FNST'	'OFST'	'LG'	1	-	Offset to Matching Data		a
7	'FNCT'	'NORM'	'UL'	1	-	Matching Data Count		a

11.A.2.11.2.4. Category Data Frame

name [Nearby City Search Category Data Frame]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	B1		A Sequence of Nearby City Search Category Tables		a

11.A.2.11.2.4.1. Category Table

name [Nearby City Search Category Table]

No.	Offset	Data length	Data type	Item name	Remarks	Classification
1	0	B1		Nearby City Search Category Parent Record		a
2	O1	B2		A Sequence of Nearby City Search Category Option(child) Records		a

name [Nearby City Search Category Parent Record]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	2	N	Number of Option(child) Items		a

name [Nearby City Search Category Option(child) Record]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	2	N	Type Code		a

2	2	2	N	Type Code 2		a
3	4	4	D	Offset to Matching Data		a
4	8	4	N	Matching Data Count		a
5	12	1	BR	Padding Field		c

11.A.2.11.2.5. Matching Data Definition Frame

No.	Usage	Description type	Description type declaration	Number of data items	Additional information	Comment	Remarks	Classification
1	'DCTF'	'REAL'	-	-	(4)	Definition Field Declaration		a
2	'ARCD'	'NORM'	'UL'	1	-	Area Code		a
3	'RLXY'	'NORM'	'P6'	1	-	Latitude and Longitude		a
4	'POIG'	'NORM'	'UW'	1	-	POI Information Number	1)	c
5	'POIO'	'OFST'	'LG'	1	-	Offset to POI Information	2)	a

- 1) To define POI information in two or more split parts, specify this field.
- 2) It is proposed that the data of a single city is configured by the POI information of multiple city centers.

Since the system must display POIs having the same name (same city) as POIs of a single city, the stored target POI information name must always be a city name instead of a city center name.

11.A.2.11.2.6. Matching Data Frame

name [Nearby City Search Matching Data Frame]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	B1		A Sequence of Nearby City Search Matching Data Records		a

Note: Matching data records are placed in order of search mesh number (integrity = 0) corresponding to the latitude and longitude and area code.

name [Nearby City Search Matching Data Record]

No.	offset	Data length	Data type	Item name	Remarks	Classification
1	0	4	N	Area Code		a
2	4	6	N:N	Latitude and Longitude		a
3	10	2	N	POI Information Serial Number		c
4	12	4	D	Offset to POI Information		c