

31 2012 . 285 "

,

/GPS

,

,

N,  
"

19 2012

" " 4

,

, -

,

30 2008 . 323

( .3838; 37, .4415,  
2012 . 8 .1028)

,2008, 18, .2058; 2009, 30,  
20

8

10 2009 . 720 (  
21 2009 . 38 .4475,  
20 2010 . 38 .4828,  
17 2011 . 42 .5922)

:

1.

:

-

,

/GPS

( 1);

/GPS,

N,

( 2);

/GPS,

( 3);

/GPS,

, N,

4); , (

( 5);

( 6);

( 7);

( 8).

2. :

- ,

/GPS

( 1)

/GPS,

N,

, ( 2)

, ( 3)

( 5) - 1

2013 .;

( 6)

( 7) - 1

2013 .;

/GPS,

N,

4)

( 8) - 1 2014 .

13 2012 .

25450

1

31 2012 . 285

-

/GPS,

1. ) , /GPS ( , ;  
/GPS : ;
2. - ( , - ) , , /GPS, , - , .
3. , - , .
4. - ( ) .
5. - :  
/GPS ( );  
 ;  
 ;  
 ;  
 ;  
 , .
6. - .
7. , - 1 .

8. :

- 99,67% ;

- 15 000 ;

1 ;

- 2 ;

- 6 .

9. -

- 60 .

10. -

99,9%.

11. -

, "1 ".

12. -

, - 6

.

2

31 2012 . 285

/GPS,

N,

1. /GPS ( -

)

, :

;

;

;

;

;

;

2. GSM. 1,

3. " " , 40 .

4. 20 000 , .

5. 20° ) , ( .

6. 15 24 . 1

7. : ;

; GSM/GPRS;

; , ; ,

8. RS485, CAN USB RS232,

9. , ,

10. 11 GSM-  
( ) 900/1800,

19.02.2008 21 ( 05 2008 ., 11279).

11.

( 900/1800,

12

)

GSM-

19.02.2008 21 ( 05 2008 ., 11279).

12.

:

- ( , );

- ( ).

13.

, ,  
- Ex II 4.

14.

2

, 2009 . 720 ( . 4475; 2011, 42, . 5922), 10-03.

10 , 2009, 38, 6.5 - 6.9

15.

:

1) 12 24 (+/-15% );

2) ;

3) / ;

4) 600 ;

5) ;

6) ( );

7) ;

8) 1 . ;

9) ) ; 1 . (

10) ( ).

16. ,

17. .

18. 6 7

19. , , , .

20. 15 0,95.

21. ( , , ),  
UTC. .

22. IEC 61162  
(NMEA-0183).

3

31 2012 . 285

**/GPS,** ,

1. , , ,  
:  
;  
;  
;

;

;

;

2.

,

3.

,

:

1) - , ;

2) ;

3) - ;

4) .

4. 150 000

,

,

.

5. GSM.

6. :

/GPS ;

/GPS ;

GSM/GPRS;

,

;



7.  
RS485, CAN USB

RS232,

8.

\* \*,

:

( );

( ),

;

( );

( )

;

9.

:

GSM

,

;

;

;

;

;

10.

11.

GSM.

12.

, \* \*

GSM.

13.

14.

( 12 )  
900/1800,

GSM-

19.02.2008 21 ( 05 2008 ., 11279).

15.

:  
- ( , );  
- ( ).

16.

2  
, 2009 . 720 ( . 4475; 2011, 42, . 5922), 10-03.

10  
, 2009, 38,  
6.5 - 6.9

17.

18.

( 11 )  
900/1800,

GSM-

19.02.2008 21 ( 05 2008 ., 11279).

19.

:

- 1) 12 24 (+/-15%);
- 2) ;
- 3) / ;
- 4) 600 ;
- 5) ;
- 6) ( );
- 7) ;
- 8) 1 . ;
- 9) ) 1 . ( ;
- 10) ( ).
20. GSM/GPRS .
21. .
22. 6 7 .
23. 15 0,95.
24. ( , , ), UTC. .
25. IEC 61162 (NMEA-0183).

/GPS,

, N,

1.

, , N, ,  
, - .

2.

GSM 900 GSM 1800, UMTS 900 UMTS 2000.

3.

-

4.

-

:

1)

0,95;

15

2)

;

3)

;

,

-

4)

;

5)

,

GSM 1800, UMTS 900 UMTS 2000,

20

GSM 900

;

6)

;

7)

;

8)

;

9)

;

10)

15',  
3';

11)

;

12)

GSM 900 GSM 1800, UMTS 900 UMTS

2000.

5.

40° 85° , ,

6.

7.

2

(  
. 5922),  
01, 95-02.

10  
, 2009, 38, . 4475; 2009 . 720  
2011, 42,  
12-03, 29-03, 94-

8.

" - " GSM-900, GSM-1800, UMTS-900, UMTS-2000

( ).

9.

UMTS-900, UMTS-2000

GSM-900, GSM-1800,

" - "

10.

, - , - ,

11.

GSM 900 GSM 1800, UMTS 900 UMTS 2000.

12.

13.

14.

15.

16.

17.

6 8

5

31 2012 . 285

1.

1.1

" "

:

-

-

-

-

-

-

-

-

-

.

-

1.2.

1.3.

1.4.

7

RTE (Route) -

RTE

PRA (Peer Address) -

RCA (Recipient Address) -

2.

RN (Record Number) -

0 65535, . . . 65535,  
0;

OID (Object Identifier) -

;

SSOD (Source Service On Device) -

, , -  
;

RSOD (Recipient Service On Device) -

, -

3.

EGTS\_PT\_RESPONSE.

4.

EGTS\_SR\_RECORD\_RESPONSE,

5.

EGTS\_FLEET\_GET\_POS\_DATA , EGTS\_COMMANDS\_SERVICE.

EGTS\_FLEET\_GET\_SENSORS\_DATA  
EGTS\_COMMANDS\_SERVICE.

EGTS\_FLEET\_GET\_DOUT\_DATA EGTS\_COMMANDS\_SERVICE.

6.

EGTS\_SR\_COMMAND\_DATA EGTS\_COMMANDS\_SERVICE SERVICE.

7.



EGTS\_SR\_COMMAND\_DATA

EGTS\_COMMANDS\_SERVICE.

8.

EGTS\_SR\_POS\_DATA

EGTS\_TELEDATA\_SERVICE.

EGTS\_SR\_AD\_SENSORS\_DATA

EGTS\_TELEDATA\_SERVICE.

6

31 2012 . 285

**1.**

1.1.

GSM UMTS.

1.2.

OSI

:

,

,

,

,

,

-

TCP,

:

OSI,

TCP/IP

IP.

1.

**1.**

**OSI,**

**TCP/IP**

**OSI**

**/I**

**TCP/IP**

7

6

4

FTP, HTTP, 3,  
IMAP, telnet, SMTP,  
DNS, TFTP

5

4

3

TCP, UDP

TCP

3

2

IP

IP

2

1

1

1.3.

65535

**2.**

2.1.

2.2.

CRC-8.

CRC-16.

2.3.

13). ( TL\_RESPONSE\_TO

14. TL\_RESPONSE\_TO.

13 ( - TL\_RESEND\_ATTEMPTS).

TCP/IP ( )  
TL\_RECONNECT\_TO ( ) 13).

**3.**

3.1.

( - , )

3.2.

UNIT\_ID,

3.3. ( - )

63. ,  
64.

#### 4.

4.1. , 2.

2.

BOOLEAN	1	TRUE=1, FALSE=0	TRUE	FALSE
BYTE	1	0 ... 255		
USHORT	2	0 ... 65535		
UINT	4	0 ... 4294967295		
ULONG	8	0 ... 18446744073709551615		
SHORT	2	-32768 ... + 32767		
INT	4	-2147483648 ... +2147483647		
FLOAT	4	* - 38 ... 3.4 + 38		
DOUBLE	8	* - 308 ... 1.7 + 308		

STRING CP-  
1251  
( 0x00)

BINARY BYTE

ARRAY OF (TYPE),  
TYPE BINARY.

4.2. USHORT, UINT, ULONG, FLOAT DOUBLE  
little - endian ( ).  
STRING BINARY,

, . . .

4.3.

:

(Mandatory) - ;

(Optional) - .

**5.**

5.1.

1.

**1.**

5.2.

5.3.

65535

Window Size (

TCP.

3

**3.**

	7	6	5	4	3	2	1	0		
PRV (Protocol Version)								M	BYTE	1
SKID (Security Key ID)									BYTE	1
PRF (Prefix) RTE ENA					CMP	PR			BYTE	1
HL (Header Length)									BYTE	1
HE (Header Encoding)									BYTE	1
FDL (Frame Data Length)									USHORT	2
PID (Packet Identifier)									USHORT	2
PT (Packet Type)									BYTE	1
PRA (Peer Address)									USHORT	2
RCA (Recipient Address)									USHORT	2
TTL (Time To Live)									BYTE	1
HCS (Header Check Sum)									BYTE	1
SFRD (Services Frame Data)									BINARY	0 ... 65517
SFRCS (Services Frame Data Check Sum)									USHORT	0, 2

5.4.

: PRV, PRF,

PR, CMP, ENA, RTE, HL, HE, FDL, PID, PT, PRA, RCA, TTL, HCS.

SFRD,

SFRCS.

- 5.5. PRV 0x01.
- 5.6. SKID , .
- 5.7. PRF 00.
- 5.8. RTE (Route) - , .  
PRA, RCA, TTL, PRA, RCA, TTL  
1, - ,  
"HOME\_DISPATCHER\_ID", - ,
- 5.9. ENA (Encryption Algorithm) , SFRD  
SFRD. 00, SFRD
- 5.10. CMP (Compressed) , SFRD  
1, SFRD SFRD.
- 5.11. PR (Priority) :  
00 -  
01 -  
10 -  
11 -  
, , .
- 5.12. HL - ( HCS).
- 5.13. .
- 5.14. FDL SFRD,
- 5.15. PID , 1  
0 65535, . .  
65535, 0.

5.16. :  
 0 - EGTS\_PT\_RESPONSE ( );  
 1 - EGTS\_PT\_APPDATA ( , );  
 2 - EGTS\_PT\_SIGNED\_APPDATA ( , );

5.17. PRA - ,  
 - .

5.18. RCA - ,  
 - .

5.19. TTL -  
 . TTL - ,  
 TTL - ,  
 - TTL ,  
 0  
 , PC\_TTLEXPARED, 14.

5.20. HCS - ( HCS  
 "PRV" "HCS", "HCS").  
 CRC-8.

5.21. SFRD - ,  
 .

5.22. SFRCS -  
 SFRD CRC-16.  
 , SFRD.

5.23. 2.

2.png

**6.**

6.1. EGTS\_PT\_APPDATA.



SIGD (Signature Data)	BINARY	0 ... 512
SDR 1 (Service Data Record)	BINARY	9 ... 65515
SDR 2	BINARY	9 ... 65515
...		
SDR n	BINARY	9 ... 65515

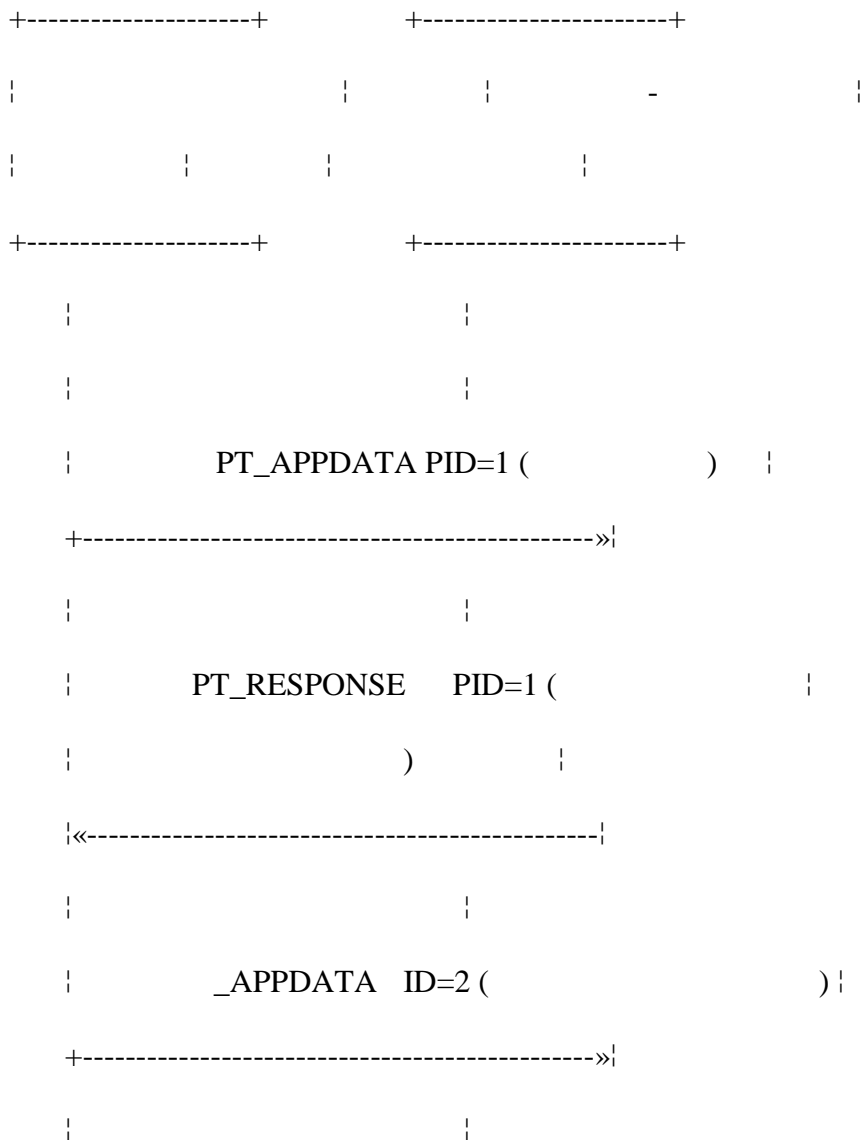
6.9. SIGL " " SIGD.

6.10. SIGD " "

6.11. SDR 1, SDR 2, SDR n .

6.12. EGTS\_PT\_APPDATA EGTS\_PT\_SIGNED\_APPDATA,

EGTS\_PT\_RESPONSE, PID  
 EGTS\_PT\_APPDATA EGTS\_PT\_SIGNED\_APPDATA. 3







TP DA (Destination Address)	6
TP PID (Protocol Identifier)	1
TP DCS (Data Coding Schema)	1
TP VP (Validity Period)	0, 1, 7
TP UDL (User Data Length)	1
TP UD (User Data)	0...140

7.3. SMSC AL - SMSC 1 SMSC AT.

7.4. SMSC AT - SMSC. SMSC AT  
 SMSC AL ( 7. SMSC AL > 0, ).

7.5. SMSC - SMSC. 4-  
 ( 4 - , 4 - 4 7  
 ). , 0xF (1111b).  
 SMSC AL.  
 SMSC , SMSC SIM .

7.6. TP MTI - (Message Type Indicator) ( 01).

7.7. TP RD - (Reject Duplicates) , SMSC  
 , TP MR  
 TP DA.

7.8. TP VPF - (Validity Period Format) TP VP.

7.9. TP SRR - (Status Report Request) SMSC ( 1,  
 ).

7.10. TP UDHI - (User Data Header Indicator) , 1,  
 TP UD HEADER ( ).

7.11. TP RP - (Reply Path) , RP .

7.12. TP MR - ( 1  
 ).

7.13. TP DA L - ( "79991234567", TP  
 DA L = 0Bh (11).

7.14. TP DA T - TP DA  
 SMSC AT 9.

- 7.15. TP DA - SMSC . ,
- 7.16. TP PID - ( 00).
- 7.17. TP DCS - ( 0x04, 8- ).
- 7.18. TP VP - . 8
- 7.19. TP UDL - TP DL, 8-
- 7.20. TP UD - . 10

**8. TP\_VP TP\_VPF**

0	0	TP VP			
1	0	TP VP	"	"	1
0	1	TP VP	"	"	7
1	1	TP VP	"	"	7

**9. TP\_DA\_T SMSC\_AT ( )**

	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>	,
1	TON			NPI				1	

- 7.21. TON - (Type Of Number) . TON :
- 000 - ;
- 001 - ;
- 010 - ;
- 011 - , ;
- 100 - ;
- 101 - - ( 7- );
- 110 - ;
- 111 - .

7.22. NPI - (Numeric Plan Identification) ( :  
 TON = 000,001,010). NPI

0000 - ;  
 0001 - ISDN ;  
 0011 - ;  
 0100 - ;  
 1000 - ;  
 1001 - ;  
 1111 - .

### 10. TP\_UD

	7	6	5	4	3	2	1	0	
LUDH (Length of User Data Header)									1
IEI "A" (Information-Element-Identifier "A")									1
LIE "A" (Length of Information-Element "A")									1
IED "A" (Information-Element-Data of "A")									1 ... n
IEI "B" (Information-Element-Identifier "B")									1
LIE "B" (Length of Information-Element "B")									1
IED "B" (Information-Element-Data of "B")									1 ... n
IEI "N" (Information-Element-Identifier "N")									1
LIE "N" (Length of Information-Element "N")									1
IED "N" (Information-Element-Data of "N")									1 ... n
UD (User Data)									1 ... 140

7.23. LUDH -

7.24. IEI " ", IEI " ", IEI "N" -

" ", " " "N"

( ):

00 - SMS ;

01 - SMS ;

02 - ;

03 - ;

04 - 7F = ;

80 - 9F = SME;

0 - BF = ;

0 - DF = SC;

0 - FF =

7.25. LIE " ", LIE " ", LIE "N" -  
" ", " " "N" ,

7.26. IED " ", IED " ", IED "N" - " ", " " "N"

7.27. UD -  
UD HEADER, LUDH, IEI, LIE, IED.  
, TP UDL 7.  
, (TP UDL - LUDH -1).

7.28. TP\_UD\_HEADER 11. IEI 00, IED

**11.**

**SMS**

<b>7 6 5 4 3 2 1 0</b>	,
CSMRN (Concatenated Short Message Reference Number)	1
MNSM (Maximum Number of Short Messages)	1
SNCSM (Sequence Number of Current Short Message)	1

7.29. CSMRN - SMS  
SMS

7.30. MNSM - SMS.  
1 255.

7.31. SNCSM - SMS  
1 255. MNSM

7.32. SMS SMS-DELIVER 8-  
12 SMS PDU  
**12. SMS PDU (SMS-  
DELIVER)**

<b>7 6 5 4 3 2 1 0</b>	,
SMSC_AL (SMSC Address Length)	1
SMSC_AT (SMSC Address Type)	0,1
SMSC_A (SMSC Address)	0,6

TP_RP	TP_UDHI	TP_SRI -	TP_MMS	TP_MTI	1
TP_OA_L (Originating Address Length)					1
TP_OA_T (Originating Address Type)					1
TP_OA (Originating Address)					0-10
TP_PID (Protocol Identifier)					1
TP_DCS (Data Coding Schema)					1
TP_SCTS (SMSC Time Stamp)					7
TP_UDL (User Data Length)					1
TP_UD (User Data)					0 ... 140

7.33. SMSC\_AL - SMSC 1  
SMSC\_AT.

7.34. SMSC\_AT - SMSC. SMSC\_AT  
7. SMSC\_AL ( SMSC\_AL > 0, ).

7.35. SMSC\_A - SMSC. 4-  
( 4 - , 4 - 4 7  
) , , 0xF (1111b).

7.36. TP\_MTI - (Message Type Indicator) ( 00)

7.37. TP\_MMS - (More Messages to Send) ,  
SMSC, .

0 - SMS ;

1 - .

7.38. TP\_SRI - (Status Report Indication) , , :  
, .

0 - ;

1 - .

7.39. TP\_UDHI - (User Data Header Indicator) ,  
TP\_UD\_HEADER ( 1,  
).

7.40. TP\_RP - (Reply Path) , RP .

7.41. TP\_OA\_L - .

7.42. - - -  
- - SMSC\_AT 7, 12.

7.43. SMSC\_A.

7.44. TP\_PID - ;

7.45. TP\_DCS - ( 0x04, 8-  
, ).

7.46. TP\_SCTS - ,  
SMSC. 12.

7.47. TP\_UDL - TP\_DL, 8-

7.48. TP\_UD - TP\_UDHI 7.

## 8.

8.1. SMS-  
- ,  
( 10), 140 TP\_UD  
.

8.2. SMS, " ",  
EGTS\_PT\_SIGNED\_APPDATA.

8.3. SMS 140 ,  
SMS .

SMS  
,  
TP\_UD\_HEADER,  
SMS .

34170 8-

## 9.

9.1. 13

## 13.

TL RESEND  
ATTEMPTS      BYTE    0 ... 255    3

TL\_RESPONSE\_TO

TL  
RECONNECT    BYTE    0 ... 255    30  
TO

**14 -**

0      EGTS\_PC\_OK  
1      EGTS\_PC\_IN\_PROGRESS  
128    EGTS\_PC\_UNSPROTOCOL  
129    EGTS\_PC\_DECRYPT\_ERROR  
130    EGTS\_PC\_PROC\_DENIED  
131    EGTS\_PC\_INC\_HEADERFORM  
132    EGTS\_PC\_INC\_DATAFORM  
133    EGTS\_PC\_UNSTYPE  
134    EGTS\_PC\_NOTEN\_PARAMS  
135    EGTS\_PC\_DBL\_PROC  
136    EGTS\_PC\_PROC\_SRC\_DENIED  
137    EGTS\_PC\_HEADERCRC\_ERROR  
138    EGTS\_PC\_DATACRC\_ERROR  
139    EGTS\_PC\_INVDATALEN  
140    EGTS\_PC\_ROUTE\_NFOUND  
141    EGTS\_PC\_ROUTE\_CLOSED  
142    EGTS\_PC\_ROUTE\_DENIED  
143    EGTS\_PC\_INVADDR  
144    EGTS\_PC\_TTLEXPIRED  
145    EGTS\_PC\_NO\_ACK  
146    EGTS\_PC\_OBJ\_NFOUND  
147    EGTS\_PC\_EVNT\_NFOUND  
148    EGTS\_PC\_SRVC\_NFOUND  
149    EGTS\_PC\_SRVC\_DENIED  
150    EGTS\_PC\_SRVC\_UNKN  
151    EGTS\_PC\_AUTH\_DENIED



152 EGTS\_PC\_ALREADY\_EXISTS  
153 EGTS\_PC\_ID\_NFOUND  
154 EGTS\_PC\_INC\_DATETIME  
155 EGTS\_PC\_IO\_ERROR /  
156 EGTS\_PC\_NO\_RES\_AVAIL  
157 EGTS\_PC\_MODULE\_FAULT  
158 EGTS\_PC\_MODULE\_PWR\_FLT  
159 EGTS\_PC\_MODULE\_PROC\_FLT  
160 EGTS\_PC\_MODULE\_SW\_FLT  
161 EGTS\_PC\_MODULE\_FW\_FLT  
162 EGTS\_PC\_MODULE\_IO\_FLT /  
163 EGTS\_PC\_MODULE\_MEM\_FLT  
164 EGTS\_PC\_TEST\_FAILED

7

31 2012 . 285

## 1. EGTS\_TELEDATA\_SERVICE

:

EGTS\_COMMANDS\_SERVICE;

GPRS

## 2. EGTS\_TELEDATA\_SERVICE

2.1. EGTS\_TELEDATA\_SERVICE ,

2.2. , 1. EGTS\_TELEDATA\_SERVICE,

### 1. EGTS\_TELEDATA\_SERVICE

0 EGTS\_SR\_RECORD\_RESPONSE

16 EGTS\_SR\_POS\_DATA

17 EGTS\_SR\_EXT\_POS\_DATA

18 EGTS\_SR\_AD\_SENSORS\_DATA -

19 EGTS\_SR\_COUNTERS\_DATA -

20 EGTS\_SR\_STATE\_DATA -

22 EGTS\_SR\_LOOPIN\_DA -

23 EGTS\_SR\_ABS\_DIG\_SENS\_DATA -

24 EGTS\_SR\_ABS\_AN\_SENS\_DATA -

25 EGTS\_SR\_ABS\_CNTR\_DATA -

26 EGTS\_SR\_ABS\_LOOPIN\_DATA -

27 EGTS\_SR\_LIQUID\_LEVEL\_SENSOR -

28 EGTS\_SR\_PASSENGERS\_COUNTERS -

2.3. EGTS\_SR\_POS\_DATA

2.

**2.**  
**EGTS\_TELEDATA\_SERVICE**

**EGTS\_SR\_POS\_DATA**

	7	6	5	4	3	2	1	0	
NTM (Navigation Time)									UINT 4
LAT (Latitude)									UINT 4
LONG (Longitude)									UINT 4
FLG(Flags)									BYTE 1
ALTE LOHS LAHS MV BB CS FIX VLD									BYTE 1
SPD (Speed)									USHORT 2
DIRH ALTS SPD (Speed)									USHORT 2
DIR (Direction)									BYTE 1
ODM (Odometer)									BINARY 3
DIN (Digital Inputs)									BYTE 1
SRC (Source)									BYTE 1
ALT (Altitude)									BINARY 3
SRCD (Source Data)									SHORT 2

:

NTM - ( 00:00:00 01.01.2010 UTC);

LAT - ,\* ;

LONG - ,\* ;

FLG - ;

ALTE - ALT :

1 - ALT ;

0 - ;

LOHS - :

0 - :

1 - ;

LAHS - :

0 - ;

1 - ;

MV - , :

1 - ;

0 - ;

- , (" "):  
 0 - ;  
 1 - (" ");  
 FIX - , :  
 0 - 2D fix;  
 1 - 3D fix;  
 CS - , :  
 0 - WGS-84;  
 1 - ( -90.02);  
 VLD - , " " :  
 1 - " ";  
 0 - " " ;  
 SPD - / 0,1 / ( 14 );  
 ALTS - (Altitude Sign) , ALTE:  
 0 - ;  
 1 - ;  
 DIRH - (Direction the Highest bit) (8) DIR;  
 DIR - . ,  
 DIRH);  
 ODM - ( ) , 0,1 ;  
 DIN - , , 0, ) 1 ... 8 (  
 1, , 0, )  
 ;  
 SRC - ( ) , ( 3);  
 ALT - , ( ,  
 ALTE);

SRCD - , ( ) SRC.  
SRC.

### 3. EGTS\_TELEDATA\_SERVICE

0

1

2

3

4 X

5

6

7

8 ( )

9 Y

10

11 /

12

13 " "

14

15

16

17

18

19

20

21

22

23

24 GSM/UMTS

25

26

27

28

29 " "

30 /

31 " ( )

32 IP

33

34 " ( / IP

2.4. EGTS\_SR\_EXT\_POS\_DATA

4.

**4. EGTS\_SR\_EXT\_POS\_DATA  
EGTS\_TELEDATA\_SERVICE**

	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>			
-			NSFE	SFE	PFE	HFE	VFE	M	BYTE	1	,
VDOP (Vertical Dilution of Precision)									USHORT	2	
HDOP (Horizontal Dilution of Precision)									USHORT	2	
PDOP (Position Dilution of Precision)									USHORT	2	
SAT (Satellites)									BYTE	1	
NS (Navigation System)									USHORT	2	

NSFE - (Navigation System Field Exists)  
:

1 - NS ;

0 - .

SFE - (Satellites Field Exists)  
SAT,

NS:

1 - SAT NS ;

0 - .

PFE - (PDOP Field Exists)

PDOP:

1 - PDOP ;

0 - .

HFE - (HDOP Field Exists)

HDOP:

1 - HDOP ;

0 - .

VFE - (VDOP Field Exists)

VDOP:

1 - VDOP ;

0 - .

VDOP - ( , 100);  
 HDOP - ( , 100);  
 PDOP - ( , 100);  
 SAT - ;  
 NS - , ( ) :  
 0 - ;  
 1 - ;  
 2 - GPS;  
 4 - Galileo;  
 8 - Compass;  
 16 - Beidou;  
 32 - DORIS;  
 64 - IRNSS;  
 128 - QZSS.

## 2.5. EGTS\_SR\_AD\_SENSORS\_DATA

5.

### 5. EGTS\_SR\_AD\_SENSORS\_DATA EGTS\_TELEDATA\_SERVICE

7	6	5	4	3	2	1	0		
DIOE8	DIOE7	DIOE6	DIOE5	DIOE4	DIOE3	DIOE2	DIOE1	BYTE	1
DOUT (Digital Outputs)								BYTE	1
ASFE8	ASFE7	ASFE6	ASFE5	ASFE4	ASFE3	ASFE2	ASFE1	BYTE	1
ADIO1 (Additional Digital Inputs Octet 1)								BYTE	1
ADIO2 (Additional Digital Inputs Octet 2)								BYTE	1
ADIO3 (Additional Digital Inputs Octet 3)								BYTE	1
ADIO4 (Additional Digital Inputs Octet 4)								BYTE	1
ADIO5 (Additional Digital Inputs Octet 5)								BYTE	1
ADIO6 (Additional Digital Inputs Octet 6)								BYTE	1

ADIO7 (Additional Digital Inputs Octet 7)	BYTE	1
ADIO8 (Additional Digital Inputs Octet 8)	BYTE	1
ANS1 (Analog Sensor 1)	BINARY	3
ANS2 (Analog Sensor 2)	BINARY	3
ANS3 (Analog Sensor 3)	BINARY	3
ANS4 (Analog Sensor 4)	BINARY	
ANS5 (Analog Sensor 5)	BINARY	3
ANS6 (Analog Sensor 6)	BINARY	3
ANS7 (Analog Sensor 7)	BINARY	3
ANS8 (Analog Sensor 8)	BINARY	3

:

DIOE1 ... DIOE8 - (Digital Inputs Octet Exists) , . 64 :

1 - ADIO ;

0 - .

DOUT - ( 1, );

ASFE1...ASFE8 - (Analog Sensor Field Exists) , ( 1, 0, ). , ASFE8 - ASFE1  
 , ASFE1=1 ASFE3=1, , ANS1 3 ANS3.  
 ANS2, 3 ANS4 ... ANS8 ;

ADIO1 ... ADIO8 - .

, :

1 - ;

0 - .

ANS1 ... ANS8 - 1 8 .

EGTS\_SR\_AD\_SENSORS\_DATA 64-  
 8-

EGTS\_SR\_AD\_SENSOR\_DATA.

: EGTS\_SR\_AD\_SENSOR\_DATA  
 9 72, 1 8,  
 - 73 136 9 16 ..



2.6. EGTS\_SR\_COUNTERS\_DATA

6.

**6. EGTS\_SR\_COUNTERS\_DATA  
EGTS\_TELEDATA\_SERVICE**

7	6	5	4	3	2	1	0			,
CFE8	CFE7	CFE6	CFE5	CFE4	CFE3	CFE2	CFE1	BYTE	1	
CN1 (Counter 1)								BINARY	3	
CN2 (Counter 2)								BINARY	3	
CN3 (Counter 3)								BINARY	3	
CN4 (Counter 4)								BINARY	3	
CN5 (Counter 5)								BINARY	3	
CN6 (Counter 6)								BINARY	3	
CN7 (Counter 7)								BINARY	3	
CN8 (Counter 8)								BINARY	3	
:										
CFE1 ... CFE8 - (Counter Field Exists)										
:										
1 - CN ;										
0 - .										
CN1 ... CN8 - 1 8 .										

2.7. EGTS\_SR\_ACCEL\_DATA.

7.

**7. EGTS\_SR\_ACCEL\_DATA  
EGTS\_TELEDATA\_SERVICE**

7	6	5	4	3	2	1	0			,
SA (Structures Amount)								BYTE	1	
ATM (Absolute Time)								UINT	4	
ADS1 (Accelerometer Data Structure 1)								BINARY	8	
ADS2 (Accelerometer Data Structure 2)								BINARY	8	
...								...	...	
ADS255 (Accelerometer Data Structure 255)								BINARY	8	
:										
SA - ;										

ATM - ( 00:00:00 01.01.2010 UTC);

ADS1 ... ADS255 - , ADS.  
8.

**8.**  
**EGTS\_SR\_ACCEL\_DATA**  
**EGTS\_TELEDATA\_SERVICE**

7	6	5	4	3	2	1	0			
								RTM (Relative Time)	USHORT	2
								XAAV (X Axis Acceleration Value)	SHORT	2
								YAAV (Y Axis Acceleration Value)	SHORT	2
								ZAAV (Z Axis Acceleration Value)	SHORT	2

:

RTM - ( ATM), ;

XAAV - X ( , 1  
) , \* 0,1 \*;

YAAV - Y ( , 1  
) , \* 0,1 \*;

ZAAV - Z ( , 1  
) , \* 0,1 \*;

~ 0.01G.

2.8. EGTS\_SR\_STATE\_DATA.

9.

**9.**  
**EGTS\_SR\_STATE\_DATA**  
**EGTS\_TELEDATA\_SERVICE**

7	6	5	4	3	2	1	0			
								ST (State)	BYTE	1
								MPSV (Main Power Source Voltage)	BYTE	1
								BBV (Back Up Battery Voltage)	BYTE	1
								IBV (Internal Battery Voltage)	BYTE	1
								- NMS IBU BBU	BYTE	1

:

ST - . 10;

MPSV - , 0,1 ;

BBV - , 0,1 ;

IBV - , 0,1 ;

NMS - , :

1 - ;

0 - ;

IBU - , :

1 - ;

0 - ;

BBU - , :

1 - ;

0 - .

**10.**

**EGTS\_SR\_STATE\_DATA**  
**EGTS\_TELEDATA\_SERVICE**

0 " "

1 " "

2 " "

3 " "

4 " "

5 " "

6 " "

7 " "

2.9. EGTS\_SR\_LOOPIN\_DATA

11.

**11. EGTS\_SR\_LOOPIN\_DATA**  
**EGTS\_TELEDATA\_SERVICE**

7 6 5 4 3 2 1 0 ,  
LIFE8 LIFE7 LIFE6 LIFE5 LIFE4 LIFE3 LIFE2 LIFE1 M BYTE 1

LIS n+1	LIS n	BYTE	1
LIS n+3	LIS n+2	BYTE	1
LIS n+5	LIS n+4	BYTE	1
LIS n+7	LIS n+6	BYTE	1

:

LIFE 1 ... LIFE 8 - (Loop In Field Exists) , ;

LIS n ... LIS n + 7 - (Loop In State) ( . ):

0000 - " ";

0001 - " ";

0010 - " ";

0100 - " ";

1000 - " ".

2.10. EGTS\_SR\_ABS\_DIG\_SENS\_DATA

12.

## 12. EGTS\_SR\_ABS\_DIG\_SENS\_DATA

### EGTS TELEDATA SERVICE

7 6 5 4 3 2 1 0 ,

DSN (Digital Sensor Number) DSST (Digital Sensor State) SHORT 2

DSN (Digital Sensor Number)

:

DSN - ;

DSST- :

0000 - ;

- .

2.11. EGTS\_SR\_ABS\_AN\_SENS\_DATA

13.

**13. EGTS\_SR\_ABS\_AN\_SENS\_DAT**

**EGTS\_TELEDATA\_SERVICE**

<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>		<b>,</b>
ASN (Analog Sensor Number)								BYTE	1
ASV (Analog Sensor Value)								BINARY	3

:

ASN - ;

ASV - .

2.12. EGTS\_SR\_ABS\_CNTR\_DATA

14.

**14. EGTS\_SR\_ABS\_CNTR\_DATA**

**EGTS\_TELEDATA\_SERVICE**

<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>		<b>,</b>
CN (Counter Number)								BYTE	1
CNV (Counter Value)								BINARY	3

:

CN - ;

CNV - .

2.13. EGTS\_SR\_ABS\_LOOPIN\_DATA

15.

**15. EGTS\_SR\_ABS\_LOOPIN\_DATA**

**EGTS\_TELEDATA\_SERVICE**

<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>		<b>,</b>
LIN (Loop In Number)				LIS (Loop In State)				SHORT	2
LIN (Loop In Number)									

:

LIN - ;

LIS - .



17.

EGTS\_SR\_PASSENGERS\_COUNTERS

EGTS\_TELEDATA\_SERVICE

	7	6	5	4	3	2	1	0		
-									RDF	
DPR (Doors Presented)									BYTE	1
DRL (Doors Released)									BYTE	1
MADDR (Module Address)									USHORT	2
PCD (Passengers Counters Data)									BINARY	2...512

:

RDF (Raw Data Flag) - , PCD :

0 - PCD , DPR ( 18);

1 - PCD ( PD ,

PD ).

DPR - (Doors Presented) , PCD ( 0 1- , 1 2-

. ). 1, , 0- ;

DRL - (Doors Released) , ( ,00000000 -

,00000001 - 1- ,00001001 - 1- 4-

);

MADDR - , ( );

PCD - .

18.

PCD

EGTS\_SR\_PASSENGERS\_COUNTERS

EGTS\_TELEDATA\_SERVICE

	7	6	5	4	3	2	1	0		
IPQ1 (In Passengers Quantity 1)									BYTE	1
OPQ1 (Out Passengers Quantity 1)									BYTE	1
...									...	...
IPQ8 (In Passengers Quantity 8)									BYTE	1
OPQ8 (Out Passengers Quantity 8)									BYTE	1

:

IPQ1..IPQ8 - 1 ... 8 ;

OPQ1...OPQ8 - 1 ... 8 ;

IPQ OPQ DPR DPR

EGTS\_SR\_PASSENGERS\_COUNTERS. 1, IPQ OPQ

IPQ OPQ DPR 0, IPQ ,

OPQ .

### 3. EGTSC\_OMMANDS\_SERVICE

3.1. EGTSC\_OMMANDS\_SERVICE , 19

20. EGTSC\_TELEDATA\_SERVICE

### 19.

EGTS\_FLEET\_DOUT\_ON 0x0009 USHORT 0 ,

1 - , 1, 0,

EGTS\_FLEET\_DOUT\_OFF 0x000A USHORT 0 , 1

- , 1, 0,

EGTS\_FLEET\_GET\_DOUT\_DATA 0x000 -

EGTS\_FLEET\_GET\_POS\_DATA 0x000C - EGTSC\_SR\_COMMAND\_DATA

EGTS\_COMMAND\_SERVICE,



		EGTS_SR_POS_DATA EGRS_TELEDATA_SERVICE
		.
		EGTS_SR_COMMAND_DATA
EGTS_FLEET_GET_SENSORS_DATA	0x000D -	EGTS_COMMAND_SERVICE,
		,
		EGTS_SR_POS_DATA EGTS_SR_AD_SENSORS
		EGRS_TELEDATA_SERVICE
		.
		EGTS_SR_COMMAND_DATA
EGTS_FLEET_GET_LIN_DA	0x000E -	EGTS_COMMAND_SERVICE,
		,
		EGTS_SR_POS_DATA EGTS_SR_LOOPIN_DATA EGRS TELEDATA_SERVICE
		.
		EGTS_SR_COMMAND_DATA
EGTS_FLEET_GET_CIN_DA	0x000F -	EGTS_COMMAND_SERVICE,
		,
		EGTS_SR_POS_DATA EGTS_SR_COUNTERS_DATA
		EGRS_TELEDATA_SERVICE

		EGTS_SR_COMMAND_DATA
EGTS_FLEET_GET_STATE	0x0010 -	EGTS_COMMAND_SERVICE,
		EGTS_SR_POS_DATA
		EGTS_SR_STATE_DATA
		EGRS_TELEDATA_SERVICE

EGTS_FLEET_ODOM_CLEAR	0x0011 -	
		ACL
		17

**20.**

EGTS_FLEET_DOUT_ON	0x0009 USHORT 0		, 1 -
		1,	, 0
		-	

EGTS_FLEET_DOUT_OFF	0 000 USHORT 0		, 1 -
		1,	, 0
		-	

EGTS_FLEET_GET_DOUT_DATA	0x000B USHORT 0		, 1 -
		1,	, 0
		-	

21.

EGTS_FLEET_ON	0x026 1	BOOLE AN	1	1 -
EGTS_FLEET_IGN_ON_PERIOD	0x026 2	INT	60	,
EGTS_FLEET_IGN_OFF_PERIOD	0x026 3	INT	300	,
EGTS_FLEET_DIST_THRESHOLD	0x026 4	INT	10	,
EGTS_FLEET_COURSE_THRESHOLD	0x026 5	INT	20	" ", 100 ,
EGTS_FLEET_MAX_SPEED_THRESHOLD	0x026 6	ARRAY OF INT	60,0,0,0,0	" ", / .
EGTS_FLEET_MIN_SPEED_THRESHOLD	0x026 7	ARRAY OF INT	0,0,0,0,0	,

EGTS\_FLEET\_MIN\_BATTERY\_VOLTAGE 0x026 8 INT 110

"  
", / .

,

"

", 0.1

EGTS\_FLEET\_POS\_ACCEL\_THRESHOLD 0x026 9 INT 100

,

0.1 \*

" "

EGTS\_FLEET\_NEG\_ACCEL\_THRESHOLD 0x026 A INT 100

,

"  
", 0.1 \*

EGTS\_FLEET\_EM\_MON\_PERIOD 0x026 B INT 10

" "

EGTS\_FLEET\_NAVI\_TRIGGER\_THRESHOLD 0x026 C INT 6

,

				"
				", 1/
				/
			IP	
EGTS_FLEET_CONN_TRB_THRES	0x026	INT	30	
HOLD	D			,
				"
				", 1/
			GSM/UMTS	
EGTS_FLEET_GSM_REG_TRB_TH	0x026	INT	3	
RESHOLD	E			,
				"
				", 1/
				1 -
EGTS_FLEET_POS_USE_ALT	0x026	BOOLE	1	"Altitude"
	F	AN		,
				EGTS_SR_EXT_POS_DAT
				A
EGTS_FLEET_EXT_POS_DATA_F	0x027	INT	255	EGTS_TELEDATA_SERVI
LAGS	0			CE.
				,
				EGTS_SR_EXT_POS_DAT
				A . . 3.4
				,
EGTS_FLEET_SR_MASK	0x027	INT	255	
	1			(
				EGTS_SR_POS_DATA).

: 0 -  
 EGTS\_SR\_EXT\_POS\_DATA; 1 -  
 EGTS\_SR\_AD\_SENSORS\_DATA; 2 -  
 EGTS\_SR\_COUNTERS\_DATA; 3 -  
 EGTS\_SR\_ACCEL\_DATA; 4 -  
 EGTS\_SR\_STATE\_DATA; 5 -  
 EGTS\_SR\_LOOPIN\_DATA.

1,

,

.

: 0 -

1...8; 1 -

EGTS\_FLEET\_DIN\_MASK

0x027  
2 INT

1

9... 16; 2 -  
17...24 . .

1,

(

)

,

.

EGTS\_FLEET\_AIN\_MASK

0x027  
3 INT

15

: 0 -  
1; 1 -  
2; 2 - 3 . .  
1,

(

)

EGTS\_FLEET\_CIN\_MASK

0x027  
4 INT

0

,

.

0 -  
1; 1 - 2;

2- 3 . . 1,  
( )

EGTS\_FLEET\_LIN\_MASK 0x027 INT 0  
5

0-  
1; 1- 2;  
2- 3.  
1,  
( )

EGTS\_SR\_ABS\_DIG\_SENS  
\_DA ,  
EGTS\_SR\_ABS\_AN\_SENS  
\_DA ,  
EGTS\_SR\_ABS\_CNTR\_DA  
TA  
EGTS\_SR\_ABS\_LOOPIN\_  
DAT  
EGTS\_SR\_AD\_SENSORS  
DATA,  
EGTS\_SR\_COUNTERS\_DA  
TA  
EGTS\_SR\_LOOPIN\_DATA

EGTS\_FLEET\_USE\_ABS\_SENS\_D 0x027 INT 0  
ATA 6

: 0 -  
EGTS\_SR\_ABS\_DIG\_SENS  
\_DA 1 -  
EGTS\_SR\_ABS\_AN\_SENS  
\_DA 2 -  
EGTS\_SR\_ABS\_CNTR\_DA  
TA 3 - EGTS  
SR\_ABS\_LOOPIN\_DATA.  
1,

**1. EGTS\_ECALL\_SERVICE**

```

:
EGTS_COMMANDS_SERVICE;
EGTS_ECALL_REQ, EGTS_ECALL_MSD_REQ,
SMS,
GPRS ( EGTS_SR_ACCEL_DATA);
( - )
EGTS_SR_TRACK_D ); GPRS (
GPRS SMS,

```

**2. EGTS\_ECALL\_SERVICE**

```

2.1. , EGTS_ECALL_SERVICE,
1.

```

**1. EGTS\_ECALL\_SERVICE**

```

0 EGTS_SR_RECORD_RESPONSE EGTS_ _APPDATA.
20 EGTS_SR_ACCEL_DATA
40 EGTS_SR_RAW_MSD_DATA
50 EGTS_SR_MSD_DATA
62 EGTS_SR_TRACK_DATA

```





	7	6	5	4	3	2	1	0		
RTM (Relative Time)									USHOR	2
XAAV (X Axis Acceleration Value)									SHORT	2
YAAV (Y Axis Acceleration Value)									SHORT	2
ZAAV (Z Axis Acceleration Value)									SHORT	2

:

RTM - ( ATM) ;

XAAV - X ( , 1  
) , \* 0,1 \*;

YAAV - Y ( , 1  
) , \* 0,1 \*;

ZAAV - Z ( , 1  
) , \* 0,1 \*;

~ 0.01G.

#### 2.4. EGTS\_SR\_RAW\_MSD\_DATA

5.

### 5. EGTS\_SR\_RAW\_MSD\_DATA EGTS\_ECALL\_SERVICE

	7	6	5	4	3	2	1	0		
FM (Format)									BYTE	1
MSD (Minimal Set of Data)									BINARY	0...1024

:

FM - , MSD .

0 -

1 -

MSD - ( , SRL , FM

#### 2.5. EGTS\_SR\_MSD\_DATA

6.

**6.  
EGTS\_ECALL\_SERVICE**

**EGTS\_SR\_MSD\_DATA**

	7	6	5	4	3	2	1	0			
FV (Format Version)										BYTE	1
MI (Message Identifier)										BYTE	1
CN (Control)										BYTE	1
-			VT(Vehicle Type)		POCN	CLT	ACT				
VIN (Vehicle Identification Number)									M	STRING	17
VPST (Vehicle Propulsion Storage Type)									M	BYTE	1
TS (Time Stamp)									M	BINARY	4
PLAT (Position Latitude)									M	BINARY	4
PLON (Position Longitude)									M	BINARY	4
VD (Vehicle Direction)									M	BYTE	1
RVP n-1 LATD(Recent Vehicle Position n-1 Latitude Delta)										BINARY	2
RVP n-1 LOND(Recent Vehicle Position n-1 Longitude Delta)										BINARY	2
RVP n-2 LATD(Recent Vehicle Position n-2 Latitude Delta)										BINARY	2
RVP n-2 LOND(Recent Vehicle Position n-2 Longitude Delta)										BINARY	2
NOP (Number Of Passengers)										BYTE	1
AD (Additional Data)										STRING	0...56

:

FV - ( 1);

MI - ( , 1,  
1 );

CN - ;

VT - , :

0001 - (Class M1);

0010 - (Class 2);

0011 - (Class 3);

0100 - (Class N1);

0101 - (Class N2);

0110 - (Class N3);

0111 - (Class L1e);

1000 - (Class L2e);

1001 - (Class L3e);

1010 - (Class L4e);

1011 - (Class L5e);

1100 - (Class L6e);

1101 - (Class L7e);

POCN - (Position Confidence) ,  
:

1 - ( \* 95%);

0 - ;

CLT - (Call ) , :

1 - ;

0 - ;

ACT - (Activation ) ,

1 - ;

0 - ;

VIN - ;

VPST - :

0, ;

Bit 7 - 6: ;

Bit 5: 1 - ;

Bit 4: 1 - ( 42 100 / );

Bit 3: 1 - (LPG);

Bit 2: 1 - (LNG);

Bit 1: 1 - ;

Bit 0: 1 - ;

TS - . 00:00:00 01.01.1970  
 (UTC).  
 0.  
 , UINT big-endian (  
 );

PLAT - , .  
 0x7FFFFFFF. INT  
 big-endian (  
 ).

PLON - , .  
 0x7FFFFFFF. INT  
 big-endian ,  
 ;

VD - ,  
 2°. 0 179.  
 0xFF;

RVP<sub>n-1</sub> LATD - PLAT  
 100 .

-512 ... +511. ,  
 0x7FFF. ,  
 SHORT big-endian.

RVP<sub>n-1</sub> LOND -  
 PLON 100 .

-512 ... +511. ,  
 0x7FFF. ,  
 SHORT big-endian.

RVP<sub>n-2</sub> LATD - RVP  
 n-1 LATD 100 .

-512 ... +511. ,  
 0x7FFF. ,  
 SHORT big-endian.

RVP n-2 LOND - RVP  
n-1 LOND 100 .

-512 ... +511.

0x7FFF.

SHORT big-endian.

NOP -

0xFF

AD -

EGTS\_SR\_MSD\_DATA ,

n-2 LATD, RVP n-2 LOND

RVP n-1 LATD, RVP n-1 LOND, RVP

2.6. EGTS\_SR\_TRACK\_DATA

7.

## 7. EGTS\_ECALL\_SERVICE EGTS\_SR\_TRACK\_DATA

7	6	5	4	3	2	1	0		
SA (Structures Amount)								BYTE	1
ATM (Absolute Time)								UINT	4
TDS1 (Track Data Structure 1)								BINARY	8
TDS2 (Track Data Structure 2)								BINARY	8
...							...	...	...
TDS 255 (Track Data Structure 255)								BINARY	8

:

SA -

ATM - ( 00:00:00 01.01.2010  
UTC).

1 .

RTM

;

TDS1 ... TDS255 -

8.

8.

EGTS\_SR\_TRACK\_DATA

EGTS\_ECALL\_SERVICE

7	6	5	4	3	2	1	0				
TNDE LOHS LAHS RTM (Relative Time)								BYTE	1		
LAT (Latitude)								UINT	4		
LONG (Longitude)								UINT	4		
SPDL (Speed Low Bits)											
DIRH SPDH (Speed Hi Bits)								USHORT	2		
DIR (Direction)								BYTE	1		

:

TNDE - (Track Node Data Exist) , TDS ( LAT, LONG, SPDL, DIRH, SPDH, DIR)

1 -

0 - ( . ). LAT, LONG, SPDL, DIRH, SPDH, DIR  
1 ;

LOHS -

0 -

1 - ;

LAHS -

0 -

1 - ;

RTM - ( ATM) 0,1 .  
3,2 ;

LAT - , , (WGS 84) / \* ;

LONG - , , (WGS 84) / \* ;

SPDL, SPDH - (SPDL) (SPDH) ( )  
 15 ). / 0,01 / . ,  
 , 327,67 / ;

DIRH - (Direction the Highest bit) (8) DIR;

DIR - ,  
 ( 0° 359°. DIRH).

### 3. EGTS\_ECALL\_SERVICE

3.1. EGTS\_COMMAND\_SERVICE  
 EGTS\_SR\_COMMAND\_DATA, 9.

### 9. EGTS\_COMMAND\_SERVICE

0 EGTS\_SR\_RECORD\_RESPONSE

51 EGTS\_SR\_COMMAND\_DATA

3.2. EGTS\_SR\_COMMAND\_DATA.

10.

### 10. EGTS\_SR\_COMMAND\_DATA EGTS\_COMMANDS\_SERVICE

7	6	5	4	3	2	1	0		
(Command )			(Command Confirmation Type)				BYTE	1	
CID (Command Identifier)								UINT	4
SID (Source Identifier)								UINT	4
-				ACFE	CHSFE	BYTE		1	
CHS (Charset)								O BYTE	1
ACL (Authorization Code Length)								O BYTE	1
AC (Authorization Code)								O BINARY	0 ...255
CD (Command Data)								O BINARY	0 ... 65205



```

:
-      :
0001 - CT_COMCONF -      ,
      ;
0010 - CT_MSGCONF -      ,      /
      ;
0011 - CT_MSGFROM -      ;
0100 - CT_MSGTO -      ;
0101 -  _ -      ;
0110 - CT_DELCOM -      ;
0111 - CT_SUBREQ -      (
      );
1000 - CT_DELIV -      ;
      -      (      CT_COMCONF,
CT_MSGCONF, CT_DELIV):
0000 -  _ -      ,      ;
0001 - CC_ERROR -      ;
0010 - CC_ILL -      (
      )
      ;
0011 - CC_DEL -      ;
0100 - CC_NFOUND -      ;
0101 - CC_NCONF -      ,      ;
0110 - CC_INPROG -      ,
      (      );
CID -      / , .
      ,      .      CID      ,
      ;
SID -      (
      )
      ;

```

ACFE - (Authorization Code Field Exists)

ACL

:

1 - ACL ;

0 - ACL ;

CHSFE - (Charset Field Exists)

CHS

:

1 - CHS ;

0 - CHS ;

CHS - , CD,

-1251.

CHS ( ):

0 - -1251;

1 - IA5;

2 - ;

3 - Latin 1;

4 - ;

5 - JIS;

6 - Cyrillic;

7 - Latin/Hebrew;

8 - UCS2;

ACL - , ;

- ), ( , .

CC\_ILL;

CD - , CHS, - ,

11. ( ) , .

**11.**

**7 6 5 4 3 2 1 0** ,

ADR (Address)		USHORT	2
SZ (Size)	ACT (Action)	BYTE	1
CCD (Command Code)		USHORT	2
DT (Data)		BINARY	0... 65200

:

```

ADR -          ,          ;
SZ -          (          ACT = 3.
          2SZ          ;
ACT -          ,          (          = -
          EGTS_SR_COMMAND_DATA).
          :
0 -          .          ,
          CCD;
1 -          .          ,          CCD;
2 -          .
          CCD,          DT;
3 -          CCD,          SZ,          DT;
4 -          CCD;
CCD -          =0          ACT = 1 ... 4;
DT -          ,          .
          CT=CT_COMCONF,
          12.          ,          CD (          ,          10).

```

12.

	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>		
ADR (Address)										USHORT 2
CCD (Command Code)										USHORT 2
DT (Data)										BINARY 0... 65200

:

ADR - , ;

CCD - ,  
DT;

DT - , CCD.

#### 4. EGTS\_ECALL\_SERVICE

4.1. ,

13. ,

#### 13.

,

EGTS\_ECALL\_REQ 0x0112 BYTE/0,1 SMS.

: 0 - 1 -

SMS.  
: MID -

EGTS\_ECALL\_MSD\_REQ 0x0113  
BINARY (MID INT, TRANSPORT -  
BYTE) TRANSPORT -

0 - ,  
; 1 -  
; 2 - SMS; 3 -

EGTS\_ECALL\_REQ EGTS\_ECALL\_MSD\_REQ,  
SMS,

SMS.

EGTS\_ECALL\_REQ

EGTS\_ECALL\_MSD\_REQ.



( ) N, /GPS.

( , ).

( ),

1 2 , -6

"1 ".

1 2013 ., - 1 2013 . 1

2014 .