



54619—
2011

27 — 2002 . 184- « », -
1.0—2004 « . »

1 « - »
(»)

2 363 « »

3 8 2011 . Ne 754- -

4 :
• (TS) (European
Telecommunications Standards Institute. ETSI) > -
(3rd Generation Partnership Project (3GPP)

• (TS) (European Telecom-
munications Standards Institute. ETSI)

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« ».
()

! ,) « * 1 1 «1 1 11 -
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1	1
2	1
3	, , 2	2
4	3
5	4
5.1	4
5.2	4
5.3	4
5.4	5
5.5	, 5	5
5.6	, 6	6
5.7	SMS	12
5.8	16
6	().....	16
6.1	16
6.2	16
6.3	16
6.4	, 17	17
6.5	17
6.6	, 17	17
6.7	20
6.8	- 42	42
7	42
7.1	42
7.2	EGTS_ECALL_SERVICE	42
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7.4	EGTS_COMMANDS_SERVICE	47
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8	EGTS_ECALL_SERVICE	52
	AL-ACK	53
	() 55	55
	() NGTP	56
	() 58	58
	() CRC16	58
	() CRC8Ha	59
	/*.....	59
	« () 60	60
	63

» « - »

« - »

« - ».

«

»:

54620—2011

54721—2011

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()—8

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« - »):

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« - »):

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IM « - »

eCail —

SMS-

(

Global navigation satellite system.
Accident emergency response system.
Protocols of data transmission from in-vehicle emergency call system to
emergency response system infrastructure

+ — 2012—09—01

1

« - *(—).

« - ».

« - » .

2

8

/ 7498-1—99
1.
52928—2010
54620—2011
54721—2011
7.75—97

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« »,

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() (),

-1 -.

3

3.1

54620,

3.1.1

3.1.2

VIN-

3.1.3

3.1.4

3.1.5

()

(emergency call),
(

3.1.6

-112

3.1.7

«112».

3.1.8

3.1.9

3.2

-
-
-
-
-
-
-

7

1C

-1251	CodePage 1251 (Microsoft Windows);	8-	-
CRC-8{16}	Cyclic Redundancy Code ();		
DNS	Domain Name System ();		
eCali	Emergency Call ();		
EGTS	Era Glonass Tetemafccs Standard (« - »);		
FTP	File Transfer Protocol ();		
IP	Internet Protocol ();		
GSM	Global System for Mobile communications ();		
HTTP	HyperText Transfer Protocol ();		
IMAP	Internet Message Access Protocol ();		
ISDN	Integrated Services Digital Network ():		
Utdendian	():		
NGTP	Next Generation Telematics Protocol ():		
OSI	Open Systems Interconnection Basic Reference Model ():		
PDU	Protocol Description Unit ():		
POP3	Post Office Protocol Version 3 ():		
SC	Service Center (- ,):	SMS-	-
SIM	Subscriber Identification Module ();		
SME	Short Message Entity (, SMS-);		
SMS	Short Message Service ();		
SMSC	Short Message Service Center ();		
SMTP	Simple Transfer Protocol ();		
TCP	Transmission Control Protocol ();		
IMP	Trivial File Transfer Protocol ();		
telnet	TERminaL NETwork ();		
UDP	User Datagram Protocol ().		

4

4.1

/ 749&-1

- ;
- ;
- ;
- ;
- ;
- ;
- ;

4.2

OSI « - »

- — TCP;
- — IP.

OSI. TCP/IP
1.

« - *

1 —
»

OSI.

« *

OSI		TCP/IP			
					« .
7		4		FTP.HTTP.POP3. IMAP, telnet. SMTP. DNS.TFTP	
6					
5					»
4		3		TCP. UDP	TCP
3		2		IP	
2		1			—
1					—

4.3

« - »:

- -
- ».

54721.

4.4

AL-ACK.

(1).

5

5.1

5.1.1

« - » , -

5.12

5.1.3

NGTP

5.2

5.3

8

6aHT(CRC).

CRC-6.

CRC-16.

5.4

5.4.1

(TL_RESPONSE_TO 13).

5.4.2

TL_RESPONSE_TO (13).

(TL_RESENO_ATTEMPTS.

13).

TCP/IP

TL_RECONNECT_TO(13).

5.5

5.5.1

5.5.2

2. 1 USHORT, UINT. ULONG, FLOAT DOUBLE
little-endian ()

STRING BINARY,

5.5.3

- (mandatory) —
- (optional) —

2—

BOOLEAN	1	TRUE-1. FALSE-0	FALSE TRUE
BYTE	1	0...255	»
USHORT	2	0...65535	»
UINT	4	0...4294967295	*
ULONG	8	0...18446744073709551615	*
SHORT	2	32768... 32767	

2

	.		
INT	4	2147483648... 2147483647	
FLOAT	4	±1.2 -38...3.4 +38	«
DOUBLE		±22 -308 ...1.7 +308	«
STRING	(0x00)	—	() -1251.
BINARY		—	BYTE
ARRAY OF TYPE		—	(TYPE), BINARY. : ARRAY OF STRING 10 STRING, 0x00).

5.6

5.6.1

5.6.1.1

»,

«

».

1.

	-	1
		1

1—

ypoa^{tn}

5.6.1.2

65535

Window Size (TCP.

TCP/IP [1].
3.

3—

7 6 5 4 3	2 1 0			PiNtep,
PRV (Protocol Version)		M	BYTE	1
SKID (SeartyKey ID)			BYTE	1
PRF (Prefix) RTE ENA		CMP PR	BYTE	1
H. (Header Length)			BYTE	1
HE (Header Encoding)			BYTE	1
FDL (Frame Data Length)			USHORT	2
(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

5.6.1.3

():

PRV, PRF, PR, CMP, ENA, RTE, HL, FDL, PRA, RCA, TTL, HCS, SFRD, SFRCS.

() 4.

4—

(),

()	()
PRV	0x01. -
SKID	,
PRF	00 -
RTE (Route)	PRA, RCA, TTL. , PRA, RCA, TTL. - 1. , «HOME_DISPATCHER_ID». - ,
ENA (Encryption Algorithm)	SFRD. 00. SFRD .

()	()
TTL	TTL TTL (PC_TTLEXPRED.)
HCS	«PRV» «HCS*» CRC-8 CRC-8. HCS
SFRD	
SFRCS	CRC-16—CCITT. SFRD. CRC-16 »!

5.6.1.4

1.

5.6.2

SFRD

5.6.2.1

EGTS_PT_APPDATA

SFRD

EGTS_PT_APPDATA

5.

5.6.2.2

EGTS_PT_RESPONSE

SFRD

EGTS_PT_RESPONSE

6.

5.6.2.3

EGTS_PT_SIGNED_APPDATA

SFRD

EGTS_PT_SIGNED_APPDATA

7.

5.6.2.4

EGTS_PT_APPDATA

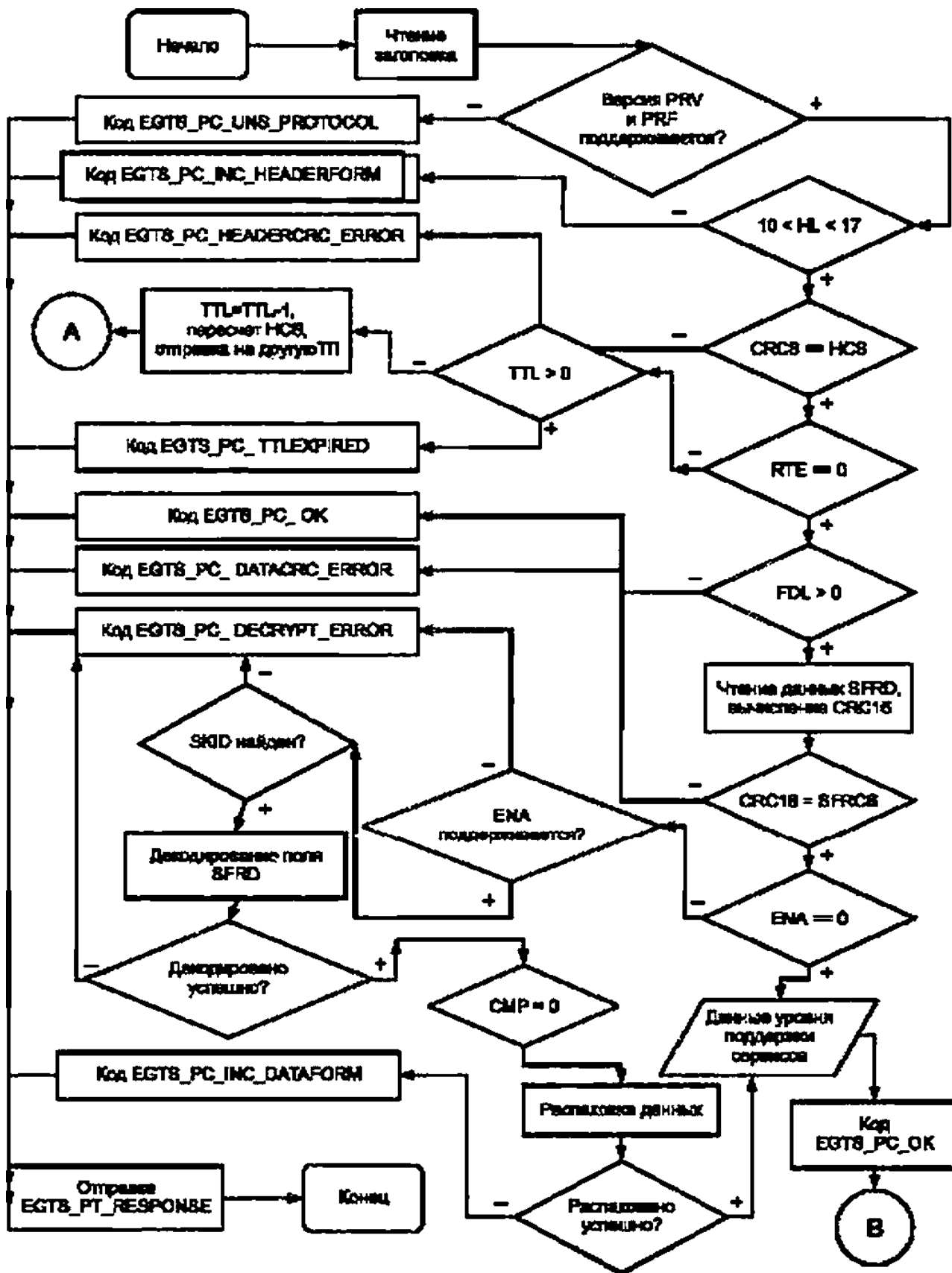
EGTS_PT_SIGNED_APPDATA.

EGTS_PT_RESPONSE.

PIO

EGTS_PT_APPDATA

EGTS_PT_SIGNED_APPDATA.



5— SFRD EGTS_PT_APPDATA

7		S	4	3	2	1	0				,
SDR 1(Service Data Record)									BINARY	9..65517	
SOR 2									BINARY	9..65517	
...									...		
SDRn									BINARY	9...65517	
<p>— SDR 1. SDR 2. SDRn SFRD / , . 6.</p>											

6— SFRD EGTS_PT_RESPONSE

7		S	4	3	2	1	j	0			,
RPID (Response Packet ID)									USHORT	2	
PR (Processing Resist)									BYTE	1	
SOR 1 (Service Data Record)									BINARY	9...65517	
SDR 2									BINARY	9...65517	
...											
SDRn									BINARY	9...65517	
<p>1 RPID — , - 2 PR — , (- ypoats , , .). 3 SDR 1. SDR 2, SDRn — * 1* , ** yuiyi.</p>											

7— SFRD EGTS_PT_SK»NED_APPDATA

7	6	S	4	3	2	1	0		» « «	,	
SIGL(Signati*e Length)									SHORT	2	
SfGD (Signature Data)									BINARY	0...512	
SDR 1 (Service Data Record)									BINARY	9...65515	
SDR 2									BINARY	9...65515	
...									...		
SDRn									BINARY	9...65515	
<p>1 SIGL — « » SIGD. 2 SIGD — « ». 3 SDR 1. SDR 2. SDRn — , , .</p>											

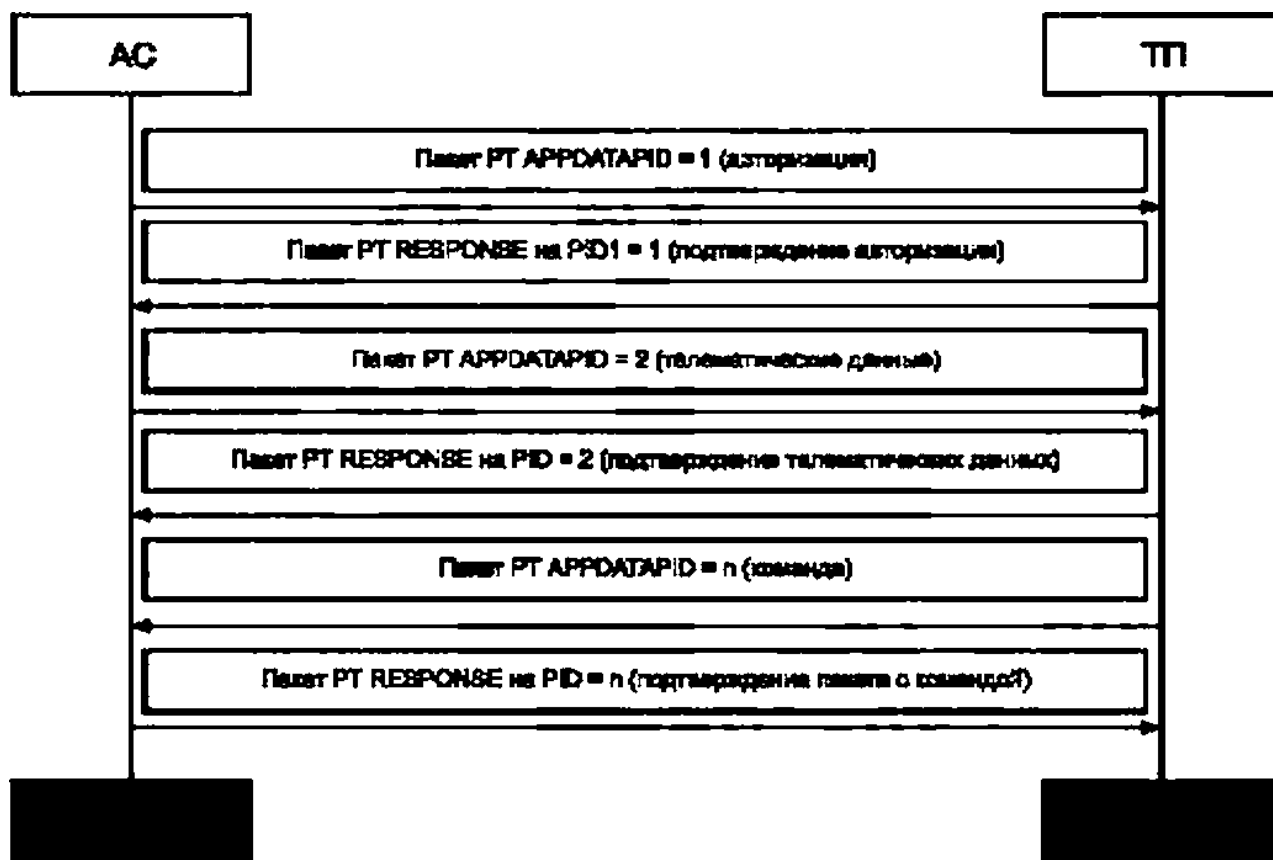


Рисунок 2 — Взаимодействие AC и телематической платформы на уровне пакетов транспортного уровня

5.7 SMS

5.7.1 SMS-

(2). [3]. SMS PDU GSM. POU SMS

5.7.1.1 POU SMS- 8 [3. 9]. SMS-

— SMS PDU

7	8	5	4	3	2	t1	0		
SMSC.AL (SMSC Address Length)									1
SMSC.AT (SMSC Address Type)									0.1
SMSC.A (SMSC Address)									0.6
TP_RP	TPJJDH1	TP_SRR	TPVPF		TP_RD TP_MTI				1
TP_MR (Message Reference)									1

7	S	4	2	t	0		<i>Tma</i>	,
TP_DA_L (Destination Address Length)						M		1
TP_DA_T (Destination Address Type)						M		1
TP_DA (Destination Address)						M		6
TP_PID (Protocol Identifier)						M		1
TP_DC5 (Data Coding Schema)						M		1
TP.VP (Validity Period)								0.1.7
TPJJD_L (User Data Length)						M		1
TP.UD (User Data)								0...140

5.7.1.2 SMS-PDU:

-SMSC.AL— SMSC.

•SMSC.AT— SMSC.

SMSC_AT 10.*

SMSC_AL (SMSC_AL 0.

);

• SMSC.A — SMSC.

(4 — , 4 —), ,

0xF(1111b). SMSC_AI_

SMSC_A SMSC SIM :

• _ ((Message Type Indicator)— (01);

• TP_RD (Reject Duplicates) — , SMSC

, TP_MR TP_DA;

• TP_VPF (Validity Period Format) — TP_VP. nonfITP_VPF

9:

• TP_3RR (Status Report Request) —

SMSC (1.);

• TP_UDHI (User Data Header Indicator) —

TP_UD_HEADER (1.);

• TP_RP (Reply Path)— , RP .

• TP_MR — (1 -

);

• TP_DA_L— :

• TP_DA_T— . TP_DA_T SMSC_AT

10:

• TP_DA— ,

SMSC_aT

• TP_PID— (00):

• TP_DCS — (0x04. 8- -

);

• TP_VP — . nonfITP_VPF;

9.

• TPJJD_L — TP.DL &-

:

• TP_UD — -

TPJJDHI 11.

9— TP_VP TP_VPF

0	0	TP_VP	
1	0	TP_VP	« » 1
0	1	TP_VP	« » 7
1	1	TP_VP	« » 7

10— TP_DA_T SMSC_AT()

7	S	4	3	2	1	0	,
1	TON			NP1			1

TP_DA_T SMSC_AT.

10. :

- TON (Type Of Number)— TON :
-) 000— .
-) 001— :
-) 010— :
-) 011— , :
-) 100— :
-) 101— - ([2] 7-):
-) 110— :
-) 111— .
- NPt (Numeric Plan Identification)— (TON — 000.

001.010). NPI :

-) 0000— :
-) 0001— ISON :
-) 0011— :
-) 0100— ;
-) 1000— :
-) 1001— :
-) 1111— .

11— TP_UO

7	5	4	3	2	1	0	,
LUDH (Length of User Data Header)							1
IEI « » (Informatoon-Element-IdentAer « »)							1
LIE « » (Length of Informabon-Element « »)							1
IEO « » (Informabon-Element-Data of « »)							1...
IEI « » (Infonnatoon-Elemerrt-Wenrter « »)							1
LIE « » (Length of Information-Element >8>)							1
IED « » (Information-Element-Data of « »)							1...
IEI «N» (Information-Element-Identifier *N*)							1
LIE «N» (Length of Information-Element «N»>							1
IED «N» (Information-Element-Data of «N»)							1...
UO (User Data)							1...140

TP_UD, 11. :

- LUOH —
- IEI « ». IEI « ». IEI «N» — ». « » «N» (-

):

-) 00— SMS-
-) 01— SMS-
-) 02— :
-) 03— :
-) 04—7F— .
-) 80—9F— SME:
-) —BF— ;
-) —DF— SC:
-) —FF— :

- LIE « ». LIE « ». LIE «N» — , -
- « ». « » «N» , , :
- 1 « ». IED « », IED «N»— « », « » «N*» : -
- UD — . -

P_UD_HEAD R. LUDH. IEI. LIE. IED. ,

TP_UDL 8. ,

(TP_UDL—LUDH-1).

8 IEI

TP_UD_HEADER 00. IED . 12.

SMS-

7		5	4		2 T	0		.
CSMRN (Concatenated Short Message Reference Number)								1
MNSM (Maximum Number of Short Messages)								1
SNCSM (Sequence Number of Current Short Message)								1
1	CSMRN —			SMS-	,		>	<
2	MNSM —					SMS.	1	
3	SNCSM —				SMS-		1	255.
				MNSM	,			

5.7.2

5.7.2.1

SMS

, TP_UD (. 8). -

140 .

SMS

5.7.2.2

SMS.

EGTS_PT_SIGNED_APPDATA

5.7.2.3

SMS-

(3.

140 ,
9.2.3.24.1).

SMS-

TP_UD_HEADER,
SMS-

255.
255(140 - 6) * 34170
5.6

&-

13.

13—

		*		
TL_RESPONSE_TO	BYTE	0...255	5	
TL_RESEND_ATTEMPTS	BYTE	0...255	3	-
TL_RECONNECT_TO	BYTE	0...255	30	-

6

()

6.1

6.1.1

« - »

6.1.2

•

•

•

•

6.2

6.3

6.4

6.5

6.6

6.6.1

2.

RID = 1	RID = 2	...	RID = N

2—

6.6.2

6.6.2.1

3.

	1	...	N

3—

6.6.2-2

14.

14—

7 * S 4 3 2 1 0		uiwtu	P . 6aki
RL (Record Length)	M	USHORT	2
RN (Record Number)		USHORT	2

14

71	1	51	4	3	2	1	0		1	,
RFL (Record Flags)								M	BYTE	1
SSOD RSOD GRP RPP				TMFE	EVFE	OBFE				
OtO (Object identifier)									UINT	4
EVID (Event Identifier)									UINT	4
TM (Time)									UINT	4
SST (Source Service Type)									BYTE	1
RST (Recipient Service Type)									BYTE	1
RD (Record Data)									BINARY	3...65498

14.

- RL — RD:
 -) 0 — 65535. . . . 65535 0. -
- RFL — , :
 -) 1 — - ;
 -) 0 — - ;
- SSOD (Source Service On Device)— , - -
 -) 1 — - ;
 -) 0 — - ;
- RSOD (Recipient Service On Device)— , - -
 -) 1 — - ;
 -) 0 — - ;
- GRP (Group) — , -
 -) 1 — ;
 -) 0 — ;
- RPP (Record Processes Priority) — , -
 -) 00 — ;
 -) 01 — ;
 -) 10 — ;
 -) 11 — ;
- TMFE (Time Field Exists)— , :
 -) 1 — ;
 -) 0 — ;
- EVFE (Event ID Field Exists)— , EVID:
 -) 1 — EVID .
 -) 0 — EVID ;
- OBFE (Object ID Field Exists)— , :
 -) 1 — .
 -) 0 — none OID ;

• (* ,), (GRP = 1).

• EV1D— EVID

• SST—

• RST —

• RD — (

««).

6.6.3

15.

15—

7	5	4	3	2	1	0		1>14 '	,
SRT (Subrecord)								BYTE	1
SRL (Subrecord Length)								USHORT	2
SRD (Subrecord Data)								BINARY	0.. .65495
<p>1 SRT — ().</p> <p>0 —</p> <p>2 SRL — SRD.</p> <p>3 SRD — nixfiin</p>									

6.6.4

3.

<* « [ariCbl ID* 1, NK>"NQ

CDQgpiW [.1 : .., 0 'ND =]

« {« *.1ID"1}

— — ——— | » »[.110=1]

———— — — 1 [«]

—△» — 00 » »*0« 1(— — . Os]

— — 8| *2 • »3

1— |' ; — — — &[— — .N*2ID=N*2]



3—

6.7

6.7.1

16.

16—

	»*	*	”	”	5*
1	EGTS AUTH SERVICE	- - . - ,	+	—	+
2	EGTS TELEDATA SERVICE	(.) - ,	+	—	+

16

			>	'	;
4	EGTS COMMANDS SERVICE	.	+		+
9	EGTS FIRMWARE SERVICE	.	+		+
10	EGTS ECALL SERVICE	7	+	+	+
1	—	:			
2	« - ».				
3	« - ».				

6.7 EGTS.AUTH.SERVICE

EGTS_AUTH_SERVICE

(, ,) .

EGTS_AUTH_SERVICE. 17.

17 —

EGTS_AUTH_SERVICE

0	EGTS_SR_RECORD_RESPONSE	-
1	egts.sr.identifier	
2	EGTS_SR_MODULE_DATA	-

3	EGTS_SR_VEHICLE_DATA	-
4	EGTS_SR_AUTH_PARAMS	,
5	EGTS_SR_AUTH_INFO	» - *_
6	EGTS_SR_SERVTCE_INFO	. , () -
7	EGTS_SR_RESULT_COOE	-

6.7.2.1 EGTS_SR_RECORD_RESPONSE
18.

18— EGTS_SR_RECORD_RESPONSE

7 6 4 3 2 t 0		nwniirr	.6wr
CRN (Confirmed Record Number)	M	USHORT	2
RST (Record Status)	M	BYTE	1

EGTS_SR_RECORD_RESPONSE

- CRN — (RN);
- RST — . none RST

EGTS_SR_RECORD_RESPONSE

6.7.22 EGTS_SR_TERM_IDENTITY.
19.

19— EGTS_SR_TERM_IDENTITY EGTS_Aim-i_SERVTCE

7 1 6 1 SI 4 1 3	2 1	0		nwniirr	.6wr
TID (Terminal Identifier)			M	UINT	4
Rags			M	BYTE	1
MNE BSE NIDE SSRA LNGCE	IMSIE 1MEIE	HDIDE			
HDID (Home Dispatcher Identifier)				USHORT	2
IMEI (International Equipment Identity)				STRING	15

19

7	6	S	4	3	2	1	0				,
IMSI (International Subscriber Identity)									STRING	16	
LNGC (Language Code)									STRING		
NID (Network Identifier)									BINARY		
BS (Buffer Size)									USHORT	2	
MSISDN (Mobile Station Integrated Services Digital Network Number)									STRING	15	

EGTS_SR_TERM_IDENTITY :

- TID — , , . 0 *
 - HOIDE — , 0.); (VIN, IMSI, IMEI): 1.
 - IMEIE — , 0.); IMEI (1.
 - IMSIE — , 0.); IMSI (1.
 - LNGCE — , 0.); LNGC (1.
 - SSRA — , 0.):
 - NIDE — , 0.); NID (1.
 - BSE — , 0.); BS (earn 1.
 - MNE — , 0.); MSISDN (1.
 - IMEI — (0 15);
 - IMSI — (0 16);
 - LNGC — , [4]. -
 - «rus* — :
 - NID — MCC-MNC. NID 20: 20
 - BS — BS (1024.2048,4096) -
 - MSISDN — 0 15 (
 - HD-

1.

SR_SERVICE JNFO.

SR.SERVICEJNFO

7

SRVP

20—

NIO

EGTS_SR_TERM_IDENTTTY

EGTS_AUTH_SERVIC

20.23	10..19	0.9			,
—	(Country Code)	MNC (Network Code)		BINARY	3

MNC

GSM.

. TETRA. UMTS,

NID

EGTS_SR_TERM JIDENTITY

:

• —

:

• MNC—

6.7.2.3

EGTS_SR_MODULE_DATA

21.

21—

EGTS_SR.MODULE.DATA

EGTS.AUTH.SERV1CE

7	6	S	4	3	2	1	0			,
()								M	BYTE	1
VTD (Vendor Identifier)								M	UINT	4
FWV (Firmware Version)								M	USHORT	2
SWV (Software Version)								M	USHORT	2
MD (Motfcation)								M	BYTE	1
ST (State)								M	BYTE	1
SRN (Serial Number)									STRING	0...32
D (Debmrtter)								M	BYTE	1
DSCR (Description)									STRJNG	0...32
D (DefcnHer)								M	BYTE	1

SR.MODULE.DATA

```

    2 0x0000:0000;
    3 0x0000:0000;
    4 0x0000:0000;
    5 0x0000:0000;
    6 0x0000:0000;
    7 0x0000:0000;
    8 0x0000:0000;
    9 0x0000:0000;
    A 0x0000:0000;
    B 0x0000:0000;
    C 0x0000:0000;
    D 0x0000:0000;
    E 0x0000:0000;
    F 0x0000:0000;
    G 0x0000:0000;
    H 0x0000:0000;
    I 0x0000:0000;
    J 0x0000:0000;
    K 0x0000:0000;
    L 0x0000:0000;
    M 0x0000:0000;
    N 0x0000:0000;
    O 0x0000:0000;
    P 0x0000:0000;
    Q 0x0000:0000;
    R 0x0000:0000;
    S 0x0000:0000;
    T 0x0000:0000;
    U 0x0000:0000;
    V 0x0000:0000;
    W 0x0000:0000;
    X 0x0000:0000;
    Y 0x0000:0000;
    Z 0x0000:0000;
    [ 0x0000:0000;
    ] 0x0000:0000;
    ^ 0x0000:0000;
    _ 0x0000:0000;
    ` 0x0000:0000;
    { 0x0000:0000;
    } 0x0000:0000;
    ~ 0x0000:0000;

```

- VID — major version,
- FWV — minor version, (2.34 0x0222);
- SWV — (,);
- ST — (1 0 , 127 (8));
- SRN — ;
- DSCR — (0);

EGTS_SR_VEHICLE_DATA

VIN

EGTS_SR_TERM_IOE NITTY.

22 — EGTS_SR_VEHICLE.OATA EGTS.AUTH.SERVTC E

7	6	S	4	3	2	1	0		miiimin	,
VIN (Vehicle Identification Number)								M	STRING	17
VHT (VeNcte Type)								M	UINT	4
VPST (Vehicle Prop<JSION Storage Type)								M	UINT	4

EGTS.SR.VEHICLE.DATA

- VIN — ;
- VHT — IMi upi iu<j .
 -) 31—5: ;
 -) 4—< .;
 -) 0001 — (Class 1);
 -) 0010 — (Class 2);
 -) 0011 — (Class 3);
 -) 0100 — (Class N1);
 -) 0101 — (Class N2);
 -) 0110 — (Class N3);
 -) 0111 — (Class Lie);
 -) 1000 — (Class L2e);
 -) 1001 — (Class L3e);
 -) 1010 — (Class L4e);
 -) 1011 — (Class L5eX
 -) 1100 — (Class L6e);
 -) 1101 — (Class L7e);
- VPST — 0. :
 -) 31—6: ;
 -) 5:1 — :
 -) 4:1 — (42 100 /);
 -) :1 — (LPG);

) 2:1— (CNG).
) 1:1— :
) 0:1— .
 6.7.2.5 ECTS_SR_AUTH_PARAMS.
 23.

23— ECTS_SR_AUTH_PARAMS ECTS_AUTH_SERVICE

7 1 5 4 3	2	1 0		~»i o iit	.
FLG (Flags)			M	BYTE	1
— EXE SSE MSE ISLE	PKE	ENA			
PKL (Public Key Length)				USHORT	2
PBK (Public Key)				BINARY	0..512
ISL (identity Sting Length)				USHORT	2
MSZ (Mod Size)				USHORT	2
SS (Server Sequence)				STRING	0..255
D (Deimrter)				BYTE	1
EXP (Exp)				STRING	0..255
D (Deimrter)				BYTE	1

```

EGTS_SR_AUTH_PARAMS :
    • EXE — ,
    ( 1, );
    • SSE — , SS
    ( 1, );
    • MSE — , MSZ ( 1. );
    • ISLE — , ISL ( 1. );
    • — , PKL 8 ( 1. );
    • ENA — ,
    X. , ECTS_SR_AUTH_PARAMS
    , »
    FLG:
    • PKL — ;
    • — :
    • ISL — ;
    • MSZ — , ;
    • SS — , :
    • D — ( 0):
    • — ,
    , »
    ECTS_SR_AUTH_JNFO. -
    11 12 KEYS -
    , »
EGTS_SR_RECORD_RESPONSE .
EGTS_SR_SERVICEJWO. , -
    
```

6.7.2.6 EGTS_SR_AUTH JNFO

24.

EGTS_SR_AUTH JNFO

- UNM —
- D — (0):
- UPSW — ;
- SS — ,

EGTS_SR_AUTH_PARAMS ().

24 —

EGTS_SR_AUTH_IN FO

EGTS_AUTH_SERVtCE

7 4 3 2 1 0		niwmin	,
UNM (User Name)	M	STRING	0...32
(Delimiter)	M	BYTE	1
UPSW (User Password)	M	STRING	0...32
D (Delimiter)	M	BYTE	1
SS (Server Sequence)		STRING	0...255
D (Delimiter)		BYTE	1

6.7.2.7 EGTS_SR_SERVICEJNFO

25.

25 —

EGTS_SR_SERVTCE_INFO

EGTS_AUTH_SERVICE

7 S 4 3 2	1 0		1 IX ,
ST (Service Type)	M	BYTE	1
SST (Service Statement)	M	BYTE	1
SRVP (Service Parameters)		BYTE	1
SRVA —	SRVRP		

EGTS_SR_SERVICE_INFO

- ST — , (.
- EGTS_TELEDATA_SERVICE. EGTS_ECALL_SERVICE . .);
- SST — (. 26);
- SRVP — ;
- SRVA (Service Attribute)— , :
-) 0 — :
-) 1 — :
- SRVRP (Service Routing Priority)— , »
- (
-) 0 1:
-) 00 — :
-) 01 — ;
-) 10 — :
-) 11 — .

26 —

0	EGTS_SST_rj_SERV>CE	
128	EGTS_SST_OUT_OF_SERVICE	()
129	EGTS_SST_DEN1ED	
130	EGTS_SST_NOCONF	
131	EGTS_SST_TEMP_UNAVAIL	

6.7.2.8 EGTS_SR_RESULT_CODE

27.

EGTS_SR_SERVICE_INFO :

•RCO— .

27 —

EGTS_SR_RESULT_CODE

EGTS_AUTH_SERVICE

7		5	4	3	2	1	0		1	,
RCD (ResiJt Code)									BYTE	1

6.7.2.9

UNIT JD.

« - »

IMEI IMSI *

1)0

GSM

UMTS

«

»

SMS

EGTS_SR_SERVICE_FULL_DATA

EGTS_SR_SERVICE_PART_DATA

EGTS_FIRMWARE_SERVICE.

:

EGTS_GPRS_APN (

GPRS-

),

EGTS_SERVER_ADDRESS.

UN[TJD.

SMS-

GPRS-

EGTS_SR_RECORD_RESPONSE

EGTS_PC_OK

EGTS_SR_SERVICE_FULL_DATA

EGTS_SR_SERVICE_PART_DATA

EGTS FIRMWARE SERVICE.

4.

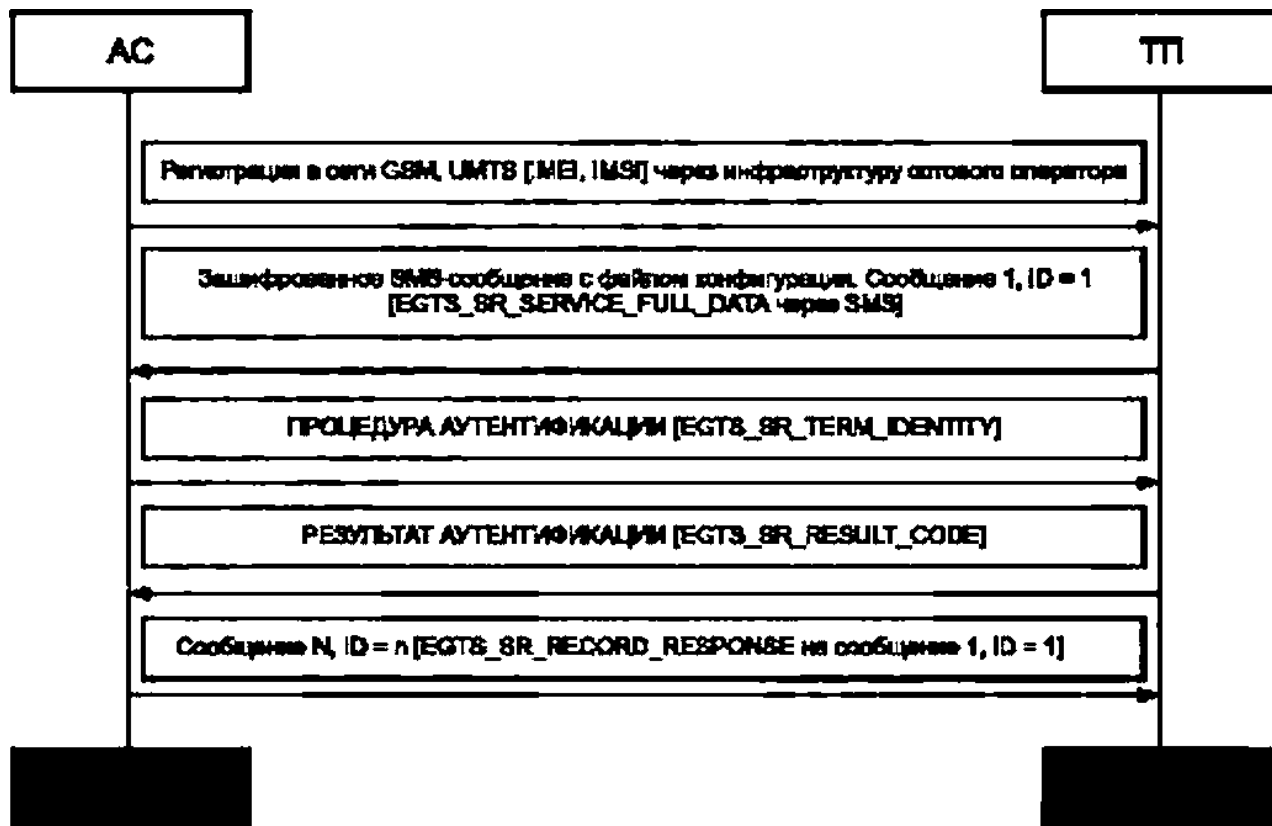


Рисунок 4 — Алгоритм конфигурации AC с использованием SM

2) GSM UMTS GPRS TCP/IP -

EGTS_SR_TERM_IDENTITY (18). 0.) -

EGTS_FIRMWARE_SERVICE. EGTS_SR_SERVICE_FULL_DATA ,

EGTS_SR_SERVICE_PART_DATA. EGTS_PC_ID_NFOUND. ,

TID = 0 , TID. ,

5. ,

EGTS_SR_RESULT_CODE -

EGTS_SR_SERVICE_INFO, , -

EGTS_SR_TERMIDENTITY , -

9 1 . 1.0*1 [BQTBJ81^_THWJDEimTY(0. .IMSJ

ftmieqw— 2.0 *1 [EGT8_a^_RECORD_PESPON8E na . 1.ID*1]

. 9.ID*2 [EGTB.SR^SBTYIC^FULLDATA GPRS]

* » 4.0 • 2 £ 0 _ « _ £ 8 «£ * ID 2)

. fi, =6 [EOT8_SA_RESULT_CODE - EGRT* _PC_NOT_AtJTH]

6, ID 3 [ECTTB_6R_RECORD_REIBPOH8E , D>S]

. 7,0=4 (EQT8_6a_reRM_IDEKTV (= * _ _ ,
1 IH9J

^ — 8.0*4 [EGTS.Sf^RECORD.RESPONSE 7.ID 4

RHpibWTCpMajjM. 8,0=5IEQTa_8R_RESULT_COOe= . . .]

Cadtormm10.0 [EGT8_3R_k_RECORD_RE8PON8EiMaocemM4&,ID*£]



5— GPRS

6.

TCP/IP

EGTS_SR_TERM_IDENTITY (* 1).

EGTS.SL_NOT_AUTH.TO.

EGTS.SR.TERM .IDENTITY

EGTS_SR_RECORD_RESPONSE

ID. 2

1.

(

3)

EGTS.SR.AUTHPARAM.

EGTS.SR.AUTH.PARAM

EGTS_SR.RESULT.CODE

3 ID. 2. 4 EGTS_SR_RECORD_RESPONSE -
 5. / 3 -
 , EGTS_SR_AUTHJNFO -
 . EGTS_SR_AUTH_INFO 6 -
 5 ID. 3. -
 7 EGTS_SR_RESULT_CODE.
 EGTS_SR_SERVICE_INFO.

1, ID-1 (0 ^ 4 [EGTS_SR_MODULE_OrM4^..
 pEffe_6R_MOOIAJE_QATAJ

6 2. ID*1 IEGT3_SR_RECORD_RESPONSE UD-1]

3. ID-2 [B3T9_8RJWTHP«?AM]

6 4.10-2 [EOT^eFUSCORDJCBPONEE »1]

.ID «3[9_ _ - 0]

» .id - [EGra_a^R£ooRD_Rfcapo«ae

7, D 4 [EGTS_SR_RESULT_CODE .IEGTS_SR^SERVICE 01...
 [02 _ _8 EHVXJEJ »FO]

a, ID 4 [EGTajBRJESPOtieEm xotamm © 4J

C00Qu*m*0,0=5£ _ _ MKXJNFQ),..., [EJ8_0Rj8 EHVIOEJW=0]

»» 10, ID 6[. » »9 ID•6]



8 7 ID. 4.
 9 EGTS.SR.SERVICEJNFO.) / -
 10 9 .
 5. , -
 (. -
 EGTS.SR.RESULT.CODE , -
 6.7.3 EGTS.COMMANDS.SERVICE , -
 EGTS.SR_COMMAND.DATA. 28.

28 — EGTS.COMMAND.SERVICE

0	EGTS.SR.RECORD.RESPONSE	.
51	EGTS.SR_COMMAND.DATA	- , , ,

6.7.3.1 EGTS_SR.COMMAND.DATA. 29.

29 — EGTS.SR_COMMAND.DATA EGTS.COMMANDS.SERVICE

7	S	4	3	2	i	0			,
(Command)			CCT (Command ^onfirmatk)n Type)			M	BYTE	1	
CID (Command Identifier)							UINT	4	
SID (Source Identifier)							UINT	4	
—					ACFE	CHSFE	BYTE	1	
CHS (Charset)							BYTE	1	
ACL (Authorization Code Length)							BYTE	1	
AC (Authorization Code)							BINARY	0...255	
CD (Command Data)							BINARY	0...6525	

29

()

EGTS_SR_COMMAND_DATA

-

```

:
• —
) 0001 — CT.COMCONF—
) 0010 — CT_MSGCONF —
;
) 0011 — CT_MSGFROM —
) 0100 — CT_MSGTO —
) 0101 — _ _ —
) 0110 — CT_DELCOM —
) 0111 — CT_SUBREQ —
):
) 1000 — CT_DELIV —
• — (
) 0000 — _ _ —
) 0001 — CC_ERROR —
) 0010 — CCJLL —
(
) 0011 — CC_DEL —
) 0100 — CC_NFOUND —
) 0101 — CC.NCONF —
) 0110 — JNPROG —
( ):
- —
, /
CID
• SIO —
• ACFE (Authorization Code Field Exists) — ACL
:
) 1 — ACL
) 0 — ACL
• CHSFE (Charset Field Exists) — CHS
a) 1 — CHS
b) — CHS
• CHS — CD.
-1251.
CHS ( ):
) 0 — -1251;
) 1 — IAS(CCITTT.50yASCN (ANSI 3.4);
) 2 — ;
) 3 — Latin 1 ( .1 ( ));
) 4 — :
6)5 — JIS(X 0208-1990);
) 6 — Cyrifcc ( « .1 ( ));
) 7 — LatMVHetzew ( . ( ));
) 6 — UCS2.
• ACL —
• —
,
CCJLL;
• —
CHS

```

() ,

30—

7	S	4	3	2	1	0		miiimin	»*
ADR (Address)							M	USHORT	2
SZ (Size)			ACT (Action)					BYTE	1
CCD (Command Code)								USHORT	2
DT (Data)								BINARY	0..65200

• ADR — 30 :

EGTS_AUTH_SERVICE EGTS_SR_MOOULE_DATA;

• SZ— (-2). 2^{s2}

:
 • ACT — EGTS_SR_COMMAND_DATA. :

) 0 — CCD:

) 1— CCD:

) 2 — CCD. DT: CCD.ero

) 3 — DT: CCD:

— SZ — DT: CCD: -0 -1...4:

• DT —

I I - 1 _CUMCONK 31.

CD(29).

31— »

7		S	4	3	2	1	0		31	,
ADR (Address)							M	USHORT	2	
CCD (Command Code)							M	USHORT	2	
DT (Data)								BINARY	0..65200	

• ADR — 31 :

EGTS_AUTH_SERVICE EGTS_SR_MOOULE_DATA;

• CCD — 32 34.

DT: CCD.

33.

6.7.32

32.

EGTS_UNIT_SW_VERSION. EGTS_UNIT_VENDORJD. EGTSJJNITJMEI. EGTS_UNIT_SERIAL_NUMBER. EGTSJJNIT_HW_VERS»ON.

32—

		* >«	
EGTS_RAW_DATA	0x0000	EHNARY (65200)	AOR
EGTS_TEST_MOOE	0x0001	BYTE	1— / : 0—
EGTS_CONFIG_RESET	0x0006		29 ACL
EGTS_SET_AUTH_COOE	0x0007	BMARY	29. ACL
EGTS.RESTART	0x0008		ACL 29

33—

to			
EGTS_RAW_OATA	0x0000	BMARY (65200)	
EGTS SELF TEST RESULT	0x0002	STRING	

			no	
mute ()				
EGTS_RADK5_MUTE_DELAY	0x0201	NT	0	mute , -
EGTS RADIO UNMUTE DELAY	0x0202	NT	0	mule , -
EGTS.GPRS.APN	0x0203	STRING		, GPRS
EGTS_SERVER_ADORESS	0x0204	STRING		TCP/IP -
EGTS_SIM_PIN	0x0205	NT	0	SIM-
EGTS AUTOMATIC REGISTRATION	0x0207	BOOLEAN	1	, SIM -
EGTS_SELFTEST_NTERVAL	0x0208	NT	0	. 0. -
EGTS POST TEST REGISTRATION_T1ME	0x0209	NT	120	, - - - -
EGTS TEST MOOE END DISTANCE	0x020A	NT	300	, - .
EGTS GARAGE MODE BX> DISTANCE	0x0206	NT	300	« » - .
EGTS_GARAGE_MODE_PN	0x020C	ENUM {NONE-0. P1N_1 -1. PIN.8-8)	0	», , « - » NONE — - « PIN_X — PIN_X - , -
EGTS TEST MODE WATCHDOG	0x020E	NT	10	* , -

			no	
.				
EGTS USE GPRS WHITE_LIST	0x0230	BOOLEAN	FALSE	, GPRS.WHITEJJST -
EGTS_GPRS_WHITE_LIST	0x0231	ARRAY OF STRING	« * ^ f * « ^ « BM Hf • MB « 1 •	, GPRS_WHITE_UST - MCC (Mobile Country Code) 3 - + MNC (Mobile Network Code) -
.				
EGTS TEST REGISTRATION.PERIOD	0x0242	INT	5	Ecrw - - - - - 0. -
.				
EGTS GNSS POWER OFF.TIME	0x0301	NT	500	, -
EGTS_GNSS_DATA_RATE	0x0302	INT/1.2.5.10	-	, -
EGTS GNSS MIN ELEVATION	0x0303	INT/5..15	15	() - -
,				
EGTS UNIT SERIAL NUMBER	0x0400	STRING		
EGTS UNIT HW VERSION	0x0401	STRING		-
EGTS UNIT SW VERSION	0x0402	STRING	"	-

			« « no	
EGTS_UNIT_VENDORJD	0x0403	INT	0	
EGTSJJNITJO	0x0404	WT	0	,
EGTS_UNJT_MEI	0x0405	STRING	**	IMEI
EGTS UNIT RS485 BAUD.RATE	0x0406	INT	19200	RS485
EGTS UNIT RS485 STOP.BrTS	0x0407	INT	1	1 - RS485 -
EGTS UNIT RS465 PARITY	0x0408	INT/0.1.2	0	RS485: 0 — : 1 — : 2 — EVEN
EGTS UNIT LANGUAGE,©	0x0410	INT	0	7.75. 0 5 —
EGTS UNIT HOME DI SPATCHER.©	0x0411	INT	0	,
EGTS SERVICE AUTH_METHODOO	0x0412	INT	1	1— (- .): 0 — { - , -) -
EGTS SERVER CHECK IN_PERIOO	0x0413	NT	30	TCP/IP .
EGTS SERVER CHECK IN.ATTEMPTS	0x0414	NT	5	TCP/IP . (GPRS)

			no	
EGTS SERVER PACKETTOUT	0x0415	INT	5	, - , -
EGTS SERVER PACKET RETRANSMIT ATTEMPTS	0x0416	INT	3	' - - - TCP/IP
EGTS UNIT MIC LEVEL	0x0417	INT/0...10	8	
EGTS UNIT SPK level "	0x0418	INT/0...10	6	

- EGTS_GPRS_APN;
- EGTS_SERVER_ADDRESS;
- EGTS_SIM_PIN;
- EGTS_AUTOMATIC_REGISTRATION:
- EGTS_SELFTEST_INTERVAL:
- EGTS_POSTTEST_REGISTRATION_TIME:
- EGTS_TEST_MOOE_END_CMSTANCE;
- EGTS_GARAGE_MOOE_END_DISTANCE;
- EGTS_TEST_MODE_WATCHDOG;
- EGTSJJSE_GPRS_WHITEJJST:
- EGTS_GPRS_WHITE_LIST;
- EGTS_TEST_REGISTRATION_PERIOD;
- EGTS_GNSS_POWER_OFF_TIME;
- EGTS_GNSS_DATA_RATE;
- EGTS_GNSS_MIN_ELEVATION:
- EGTS_UNIT_SERIAL_NUMBER:
- EGTS_UNIT_HW_VERSION;
- EGTS_UNIT_SW_VERSION;
- EGTS_UNIT_VENDOR_ID:
- EGTS_UNIT_ID;
- EGTS_UNIT_LANGUAGE_ID:
- EGTS_UNIT_IMEI;
- EGTS_UNIT_HOME_DISPATCHER_ID.

6.7.4 EGTS_FIRMWARE_SERVICE

EGTS_FIRMWARE_SERVICE

35— EGTS_FIRMWARE_SERVICE

0	EGTS SR RECORD RESPONSE	EGTS_PT_APPOATA
33	EGTS SR SERVICE PART.OATA	, - . , -
34	EGTS SR SERVICE FULL.DATA	, -

6.7.4.1 EGTS_SR_SERVICE_PART_DATA
EGTS_SR_SERVICE_PART_DATA

36.

*

36— EGTS_SR_SERVICE_PART_DATA EGTS_FIRMWARE_SERVICE

7	S	4	3	2	1	0				,
ID (Identity)								USHORT	2	
PN (Part Number)								USHORT	2	
EPQ (Expected Pets Quantity)								USHORT	2	
ODH (Object Data Header)								BINARY	0...71	
OO (Object Data)								BINARY	1...65400	
11D —										-
2 PN —										-
3 —										-
4 —										-
							36.			
5 OD —										-

EPQ , PN —
ID ,
PN PN 1 65535.
EPQ.
, ID. PN .
OID
-
-
-

37 —
EGTS FIRMWARE SERVICE

EGTS_SR_SERVICE_PART_DATA

7	S	4		3	2	1	0		1	11	,
(Object Attribute)								M	BYTE	1	
—			(Object Type)		MT (Modiie Type)						
CMI (Component or Module Identifier)									BYTE	1	
VER (Version)									USHORT	2	
WOS (Whole Object Signature)									USHORT	2	
FN (Fie Name)									STRING	0...64	
0 (Dehmrtter)									BYTE	1	

37 () :

- — ;
- — ;
-) 00— (« »);
-) 01— :
- — , .
- : , .
-) 00— :
-) 01— :
- CMI — -
- VER — / . . (— major version, — minor version, , 2.34 0x0222);
- WOS — () .

CRC16-CCnT:

- FN — ()

);

- U— ()

6.7.42 EGTS_SR_SERVICE_FULL_DATA 38.

38 —

EGTS_SR_SERVICE_FULL_DATA

EGTS.FIRMWARE.SERVICE

7	S	4	3	2	1	0		aaneu	,
(Object Data Header)							M	BINARY	7...71
OD (Object Data)							M	BINARY	1...65400

8 38 () :

- — , . *

EGTS_SR_SERVICE_FULLJ3ATA

;

- OD—

6.7.43 EGTS_SR_RECORD_RESPONSE

6.7.21 *»

EGTS_SR_SERVICE_PART_DATA EGTS_SR_SERVICE_FULL_DATA.

EGTS_SR_SERVICE_PART_DATA.

EGTS_SR_RECORD_RESPONSE ,

EGTS_PC_IN_PROGRESS.

EGTS_SR_SERVICE_PART_DATA

EGTS_SR_SERVICE_FULL_DATA

EGTS_SR_RECORD_RESPONSE.

EGTS_PC_OK.

6.8

39.

39—

			*49	
EGTS_SL_NOT_AUTH.TO	BYTE	0...255	6	TCP/IP. () . , »

7

7.1

« - »

EGTS_ECALL_SERVICE 10.

7.2

EGTS_ECALL_SERVICE

EGTS_ECALL_SERVICE

7.2.1

EGTS_COMMANDS_SERVICE.

6.7.4.

7.2.2

EGTS_ECALL_REQ. EGTS_ECALL_MSO_REQ.

« - »

SMS.

7.2.3

EGTS_TEST_MODE.

GPRS, -

7.2.4

GPRS (EGTS_SR_ACCEL_DATA).

7.2.5

EGTS_SR_TRACK_DATA).

GPRS (-

7.2.6

» GPRS SMS.

« - -

7.3

EGTS_ECALL_SERVICE

EGTS_ECALL_SERVICE

40.

7.3.1

EGTS_SR_RECORD_RESPONSE

6.7.2.1.

7.3.2

EGTS_SR_ACCEL_DATA

41.

40 — EGTS_ECALL_SERVICE

0	EGTS SR RECORD RESPONSE	EGTS_PT_APPOATA
20	EGTS_SR_ACCEL_DATA	
40	EGTS_SR_RAW_MSD_DATA	-
50	EGTS_SR_MSO_DATA	-
62	EGTS_SR_TRACK_DATA	-

41 — EGTS_SR_ACCELOATA EGTS_ECALL_SERVICE

7 S 4 3 2 1 0		1	,
SA (Structures Amount)	M	BYTE	1
ATM (Absolute Time)	M	UINT	4
ADS1 (Accelerometer Data Sbucture 1)	M	BINARY	8
ADS2 (Accelerometer Data Structure 2)	0	BINARY	8
	
ADS255 (Accelerometer Data Structure 255)		BINARY	8

41 () :

- SA—
- ATM—

(00:00:00 01.01.2010 UTC):

- ADS1...AOS255 — »

42.

8 EGTS_SR_ACCEL_DATA ADS.

42 — EGTS_ECALL_SERVICE EGTS_SR_ACCEL_DATA

7 6 * 4 3 2 t 0		HWIiITT	.6air
RTM (RelatrveTime)	M	USHORT	2
XAAV (X Axis Acceleration Nfelue)	M	SHORT	2
YAAV (Y Axis Acceleration Value)	M	SHORT	2
ZAAV (Z Axis Acceleration Value)	M	SHORT	2

- 42 () :
- RTM — ()
- XAAV — X () . 1
- YAAV — Y () . 1
- ZAAV — Z () . 1

0.016.

7.3.3 EGTS_SR_RAW_MSO_OATA

EGTS_SR_RAW_MSD_DATA

43.

43—

EGTS_SR_RAW_MSO_DATA

EGTS_ECALL_SERVICE

7		S	4	3	2	1	0		'	,
FM (Format)									BYTE	1
MSD (Minimal Set of Data)									BINARY	0...1024

- 8 43 () :
- FM — , MSD
-) 0— :
-) 1— 54620. FM
- MSD — () FM
- , SRL [2]. 3).

7.3.4 EGTS_SR_MSD_DATA

EGTS_SR_MSD_DATA

44

. I I &462U.

44—

EGTS.SR.MSO.OATA

EGTS_ECALL_SERVTCE

7		S	4	3	2	1	0		miiimin	,
FV (Format Version)								M	BYTE	1
MI (Message identifier)								M	BYTE	1
CN (Control)								M	BYTE	1
— VT(Veh»de Type)					POCN	CLT	ACT	—	—	—
VIN (Vefvde Identification Nunber)								M	STRING	17
VPST (Vetede Propulsion Storage Type)								M	BYTE	1
TS (Time Stamp)								M	BINARY	4
PLAT (Position Latitude)								M	BINARY	4
PL ON (Position Longitude)								M	BINARY	4
VD (Vehicle Direction)								M	BYTE	1
RVP n-1 LA.TD (Recent Vehicle Position n-1 Latitude Delta)									BINARY	2

7	S	4	3	2	1	0			
RVP -1 LOND (Recent Vehicle Position n-1 Longrtude 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 Longiude Delta)								BINARY	2
NOP (Number Of Passengers)								BYTE	1
AD (Adtfrbnal Data)								STRING	0...56

44 () :

- FV — (1);
- MI — (, 1.
- 1 • CN — ;
- VT — [5];
-) 0001 — (1);
-) 0010 — (2);
-) 0011 — (3);
-) 0100 — (N1);
-) 0101 — (N2);
-) 0110 — (N3);
-) 0111 — (Lie);
-) 1000 — (L2e);
-) 1001 — (L3e);
-) 1010 — (L4e);
-) 1011 — (LSe);
-) 1100 — (L6e);
- > 1101 — (7);
- POCN — (Position Confidence) , -
- : (
-) 1 — 150 95 % .
-) 0 — :
- CLT (Call) — , :
-) 1 — :
-) 0 — :
- ACT (Activation) — , :
-) 1 — :
-) 0 — ;
- V1N — :
- VPST — :
-) 0, ;
-) 7:6 — ;
-) 5:1 — ;
-) 4:1 — (42 100);
-) 3:1 — (LPG);
-) 2:1 — (CNG);
-) 1:1 — :
-) 0:1 — :
- TS — 00:00:00 01.01.1970 -
- (UTC). -
- 0. UINT
- big-endian:

- PLAT — , -
- 1. INT -
- big-endian:
- PL ON — , -
- 1. INT -
- big-endian:
- VO — -
- 2*. 0...129.
- 255:
- RVP -1 LATD—
- PLAT 100 . 512 511. — , — .
- 1. -
- SHORT big-endian:
- RVP n-1 LOND —
- PLON , 54620 (). 512 511. — -
- 1. -
- SHORT big-endian;
- RVP -2 LATD—
- RVP -1 LATD , 54620 (). 512 511. -
- 1. -
- SHORT big-endian:
- RVP -2 LOND —
- RVP -1 LOND , 54620 (). 512 511. —
- 1. -
- SHORT
- big-endian:
- NOP — -
- 255:
- AD — -
- EGTS_SR_MSD_DATA -
- NOP, RVP -1 LATD. RVP -1 LOND. RVP -2 LATD. -
- RVP n-2 LOND .

7.3.5 EGTS_SR_TRACK_DATA 45.

EGTS_SR_TRACK_DATA 45. EGTS_ECALL_SERVICE

7 S 4 3 2 1 0			.6**r
SA (Structures Amount)	M	BYTE	1
ATM (Absolute Time)	M	UINT	4
TDS1 (Trade Data Structure 1)	M	BINARY	8
TDS2 (Track Data Structure 2)		BINARY	8
...			
IDS 255 (Track Data Structure 255)	0	BINARY	8

45 () :
 .SA— :
 . ATM — (00:00:00 01.01.2010 UTC). -
 1 .
 RTM
 :
 • TDS1. ..TDS2S5 — ,
 46.
 EGTS_SR_TRACK_DATA TDS.

46 — ***
 EGTS_SR_TRACK_DATA EGTS_ECALL_SERVICE

7		S	4	3	2	1	0				,
TNDE	LOHS	LAHS	RTM (Rotative Time)					M	BYTE	1	
LAT (Labtude)									UINT	4	
LONG (Longitude)									UINT	4	
SPDL (Speed Low 8<ts)									USHORT	2	
DIRH	SPDH (Speed Hi BAs)										
DIR (Direction)									BYTE	1	

8 46 () :
 • TNDE — (Track Node Data Exist) ,
 TDS (LAT. LONG. SPDL. DIRH. SPDH, DIR):
) 1— :
) 0— (-
). LAT. LONG. SPDL. DIRH. SPDH. DIR e
 1 :
 LOHS :
) 0— :
) 1— :
 • LAHS— :
) 0— :
) 1— .
 • RTM — (-
 ATM) 0.1 . -
 3.2 :
 • LAT— , (WGS 84 90•OxFFFFFFFF :
 • LONG— , (WGS 84)/180 OxFFFFFFFF :
 • SPDL. SPDH — (SPDL) (SPDH) (15).
 0.01 / . , ,

327.67 kWh:

• DIRH (Direction the Highest bit)— (8) DIR:
 • DIR — . none DIRH).
 (0 359.

7.4 EGTS_COMMANDS_SERVICE

EGTS_COMMANDS_SERVICE.

6.7.3.

7.5

EGTS_ECALL_SERVICES

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47 48

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[6].

- EGTS_ECALL_BLACK_LIST;
- EGTS_ECALL_TEST_NUMBER;
- EGTS_ECALL_ON;
- EGTS_ECALL_SIGNAL_INTERNAL;
- EGTS_ECALL_SIGNAL_EXTERNAL;
- EGTS_ECALL_SOS_BUTTON_TIMER;
- EGTS_ECALL_CCFT;
- EGTS_ECALL_JVTTATHDN_SIGNAL_DURATION;
- EGTS_ECALL_SENO_MSG_PERIOD;
- EGTS_ECALL_AL_ACK_PERIOD;
- EGTS_ECALL_MSO_MAX_TRANSMISSION_TIME;
- EGTS_ECALL_NAD_DEREGISTRATION_TIMER;
- EGTS_ECALL_DIAL_DURATION;
- EGTS_ECALL_AUTO_DIAL_ATTEMPTS;
- EGTS_ECALL_MANUAL_DIAL_ATTEMPTS;
- EGTS_ECALL_MANUAL_CAN_CANCEL;
- EGTS_ECALL_SMS_FALLBACK_NUMBER;
- EGTS_CRASH_RECORD_TIME;
- EGTS_CRASH_RECORD_RESOLUTION;
- EGTS_CRASH_PRE_RECORD_TIME;
- EGTS_CRASH_PRE_RECORD_RESOLUTION;
- EGTS_TRACK_RECORD_TIME;
- EGTS_TRACK_RECORD_RESOLUTION;
- EGTS_TRACK_PRE_RECORD_TIME;
- EGTS_ECALL_BLACKLIST;
- EGTS_VEHICLE_VIN;
- EGTS_VEHICLE_TYPE;
- EGTS_VEHICLE_PROPULSION_STORAGE_TYPE.

47—

AC

		, <	**
EGTS_ECALL_REQ	0x0112	—	SMS -
EGTS_ECALL_MSO_REQ	0x0113	—	SMS -
EGTS_ACCEL_DATA	0x0114		SMS
EGTS_TRACK_DATA	0x0115		SMS

47

EGTS TEST START.TEST	0x0003	BYTE/0...8	<p>0 —</p> <p>1 —</p> <p>2 —</p> <p>3 —</p> <p>4 —</p> <p>5 —</p> <p>6 —</p> <p>7 —</p> <p>—</p>

48 —

to			
EGTS TEST START.TEST	0x0003	BNARY (8)	<p>(. TEST_MODE_START_TEST -</p> <p>35). 1- — 1.2- — 2 . .</p>

49 —

			yw no	
EGTS_ECALL_BLACK_LIST	0x0206	ARRAY OF STRING	<p>If M* «9* t « e* en *«* a* «* ** a* «* el* « am</p>	, e -
EGTS ECALL TEST_NUMBER	0x0200	STRING	112	-
EGTS_ECALL_ON	0x0210	BOOLEAN	TRUE	-
EGTS ECALL CRASH_SIGNALINTERNAL	0x0211	BOOLEAN	TRUE	- - , —

		*	no «	
EGTS CRASH_SK3NAL_EXTERNAL	0x0212	BOOLEAN	TRUE	- - em
EGTS ECALL sos.buttonTime	0x0213	INT	200	- - * » «
EGTS_ECALL_MOOE_PIN	0x0216	ENUM {NONE-0. PIN_1-1. PIN_8-8}	NONE	- - : : - NONE — PIN_X - PN_X — hw.
EGTS_ECALL_CCFT	0x0217	INT	80	- »
EGTS ECALL INVITATION SIGNAL DURATION	0x0218	INT	200	INVITATION,
EGTS ECALL SEND MSG.PERFOO	0x0219	INT	200	SEND MSG.
EGTS ECALL AL_ACK_PERIOO	0x021A	INT	200	AL-ACK.
EGTS ECALL MSD MAX TRANSMISSION.TIME	0x021B	NT	20	- MSD.
EGTS ECALL NAD DEREGISTRATION TIMER	0x021D	NT	8	- - UMTS »
EGTS ECALL DIAL.DURATION	0x021E	NT	5	- - .
EGTS ECALL AUTO DIAL ATTEMPTS	0x021F	NT	10	- - 0 »
EGTS ECALL MANUAL DIAL ATTE*ff»TS	0x0220	INT	10	- - - 0 »
EGTS ECALL MANUAL CAN CANCEL	0x0222	BOOLEAN	TRUE	- - TRUE — »

			no ««	
EGTS ECALL SMS.FALLBACK.NUMBER	0x0223	STRING	112	SMS , no
IGNITION OFF FOLLOW_UP_TIME1		nt	120	, - -
IGNITION OFF FOLLOW_UP_T1ME2		NT	240	, -
EGTS CRASH RECORD.TIME	0x0251	INT/ 0.-250	250	. -
EGTS CRASH RECORD RESOLUTION	0x0252	INT/1...5	1	. -
EGTS CRASH PRE.RECORD.TIME	0x0253	INT/ 0...20000	20000	, , -
EGTS CRASH PRE RECORD RESOLUTION	0x0254	INT/5...100	5	, , - -
EGTS TRACK RECORD.TIME	0x025A	INT/0...180	10	. , 0. - -
EGTS TRACK PRE RECORD" TIME	0x0256	INT/0...600	20	, , 0. , - -
EGTS TRACK RECORD RESOLUTION	0x025C	INT/1...30	10	. 100 - -

			no «	
EGTS VEHICLE VIN	0x0311	STRING		VIN [5]
EGTS VEHICLE TYPE	0x0312	INT	0	: 1 — (1) 2 — (2) 3 — (3) 4 — (N1) 5 — (N2) 6 — (N3) 7 — (Lie) 8 — (L2e) 9 — (L3e) 10 — (L4e) 11 — (L5e) 12 — (L6e) 13 — (L7e)
EGTS VEHICLE PROPULSION STORAGE TYPE	0x0313	1NT	0	0.): (7: : 5:1 — 4:1 — 42 100 -) (3:1 — (LPG) 2:1 — (CNG) 1:1 — 0:1 —

8 AL-ACK

8.1 AL-ACK.

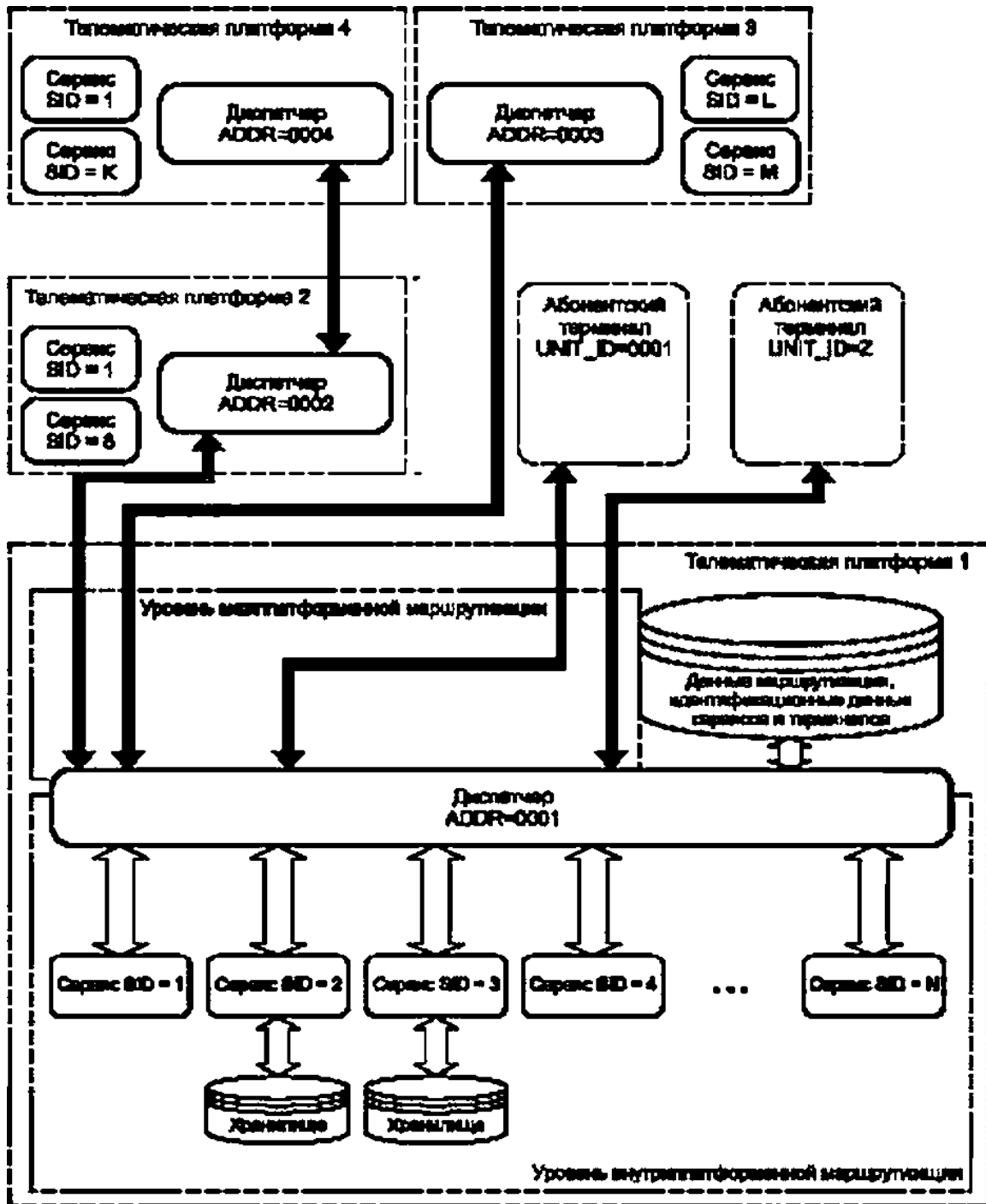
« - »

8.2 AL-ACK

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50— AL_ACK

AL-ACK	,	- »
N9 1	4	
2	3	
-	2	0 — 1 — :
	1	0 — ; 1 — -



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NGTP

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NGTP

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NGTP

Protocol Version (1 NGTP). Security Context (2 NGTP). NGTP Header Length (1 VIN/DriveC). NGTP Header Encoring (1 — U T_ID). VIN.

NGTP.

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NGTP.

NGTP

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0	EGTS_PC_OK	
1	EGTS_PCJN_PROGRESS) (
128	EGTS_PC_UNNS_PROTOCOL	
129	EGTS_PC_DECRYPT_ERROR	
130	EGTS_PC_PROC_DENIED	
131	EGTS_PC_JNC_HEADERFORM	
132	EGTS_PC_INC_DATAFORM	
133	EGTS_PC_UNNS_TYPE	
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	CGTe_nC_ROUTC_CLOSCO	
142	EGTS_PC_ROUTE_DENIED	
143	EGTS.PCJNVADOR	
144	EGTS_PC_TTL_EXPIRED	1
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_1NC_DATET1ME	/
155	EGTS_PC_IO_ERROR	/
156	EGTS_PC_NO_RES_AVAIL.	

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		*
157	EGTS_PC_MODULE_FAULT	
158	EGTS_PC_MOOULE_PWR_FLT	
159	EGTS_PC_MODULE_PROC_FLT	
160	EGTS_PC_MODULE_SW_FLT	
161	EGTS_PC_MODULE_FW_FLT	-
162	EGTS_PC_MOOULE_KD_FLT	/
163	EGTS_PC_MODOIE_MEM_FLT	
164	EGTS_PC_TEST_FA1LED	
— (EGTS PC DECRYPT ERROR. EGTS PC UNS.PROTOCOL EGTS_PCJNC_DATAFORM. EGTS_PC_DATA_CRC_ERROR. EGTS_PC_INC_H EADERFORM. EGTS_PC_HEADERCRC_ERROR)		

()

CRC16

```

Name : CRC-16 CCITT
Poly : 0x1021 16 + *12 + *5+ 1
lmt : 0xFFFF
Revert false
XorOut 0x0000
Check: 0x29B1 ("123456789")*/
const unsigned short 16 (256) - {
0x0000. 0x1021. 0x2042. 0x3063. 0x4084. 0x50A5, . 0x70E7,
0x8106. 0x9129. 0xA14A. 0xB168. 0xC18C. 0xD1AD. 0xE1CE. 0xF1EF.
. 0x1231. 0x0210. 0x3273. 0x2252. 0x5285. 0x4294. 0x72F7. 0x62D6.
0x9339. 0x8318. 0xB37B. 0xA35A. 0x0380. 0xC39C. 0xF3FF. .
. 0x2462. 0x3443. 0x0420. 0x1401. 0x64E6. 0x74C7. 0x44A4. 0x5485.
. 0xA56A. 0xB548. 0x8528. 0x9509. 0xE5EE. 0xF5CF. 0xC5AC. 0x0580.
0x3653. 0x2672. 0x1611. 0x0630. 0x7607. 0x66F6. 0x5695. 0x4684.
0x8758. 0xA77A. 0x9719. 0x8738. 0xF7DF. 0xE7FE. 0xD79D. 0xC7BC.
. 0x48C4. 0x58E5. 0x6886. 0x78A7. 0x0840. 0x1861. 0x2802. 0x3823.
. . 0xE98E. 0xF9AF. 0x8948. 0x9969. . 0xB928.
0xSAF5. 0x4AD4. 0x7AB7. 0x6A96. 0x1A71. 0xQA50. . 0x2A12.
0xOBFO. 0xCSDC. 0xFB8F. 0xEB9E. 0x9879. 0x8858. 0xBB38. 0xA81A.
. 0x7C87. 0x4CE4. 0x5CC5. 0x2C22. . 0x1041.
0xEDAE. 0xFO6F. 0xCOEC. 0xOOCd. 0xA02A. 0x8006. 0x8068. 0x9049.
0x7E97. . 0x5ED5. 0x4EF4. 0x3E13. 0x2E32. 0x1E5t. 0x0E70.
0xFF9F. 0xEFBE. 0xOFDD. 0xCFFC. 0xBF1 . 0xAF3A. 0x9F59. 0x8F78.
0x9188. 0x81A9. 0xBICA. 0xAIEB. 0xDIOC. 0xC120. 0xF14E. 0xE16F.
0x1080. 0xOOAI. 0x30C2. 0x20E3. 0x5004. 0x4025. 0x7046. 0x6067.
0x8389. 0x9398. 0xA3FB. . . 0x031C. 0xE37F. 0xF35E.
0x0281. 0x1290. 0x22F3. 0x3202. 0x4235. 0x5214. 0x6277. 0x7256.
0xS5EA. 0xA5C8. 0x95A8. 0x8589. 0xF56E. 0xE54F. 0xO52C. 0xC50D.
. 0x34E2. 0x24C3. 0x14A0. 0x0481. 0x7466. 0x6447. 0x5424. 0x4405.
0xA7DD. 0xChd37TA. 0x6799. 0x9700. 0xC7ST. 0 77 . 0xC71D. 0xD73C.
0x2603. 0x36F2. 0x0691. 0x1680. 0x6657. 0x7676. 0x4615. 0x5634.
0xO94C. 0x0960. 0xF90E. 0xE92F. 0x99C8. 0x89E9. 0xB98A. 0xA9AB.
. 0x5844. 0x4865. 0x7806. 0x6827. 0x18C0. 0xO&EI. 0x3882. 0x28A3.
0xC87D. 0x0850. 0xEB3F. 0xFBIE. 0x88F9. 0x9808. 0xAB88. 0xB89A.
0x4A75. 0x5A54. 0x6A37. 0x7A16. 0xOAFi. 0x1ADO. 0x2AB3. 0x3A92.
0xFD2E. 0xE0OF. . 0xCD4D. 0xBOAA. 0xAO8B. 0x90E8. 0x8009.
0x7026. 0x6007. 0x5C64. 0x4045. 0x3CA2. 0x2083. 0xICEO. 0x0001,
0xEFIF. 0xFF3E. 0xCF5D. 0xOF7C. 0xAF9B. 0xBFBA. 0x8FD9. 0x9FF8.
0x6E17. 0x7E36. 0x4E55. 0x5E74. 0x2E93. 0x3EB2. 0xOEDI. 0x1EFO>:
unsigned short Crc16(unsigned char * pcStock, unsigned short len)
{ Lrtsigned short crc = 0xFFFF:
while (len- -)
ere - (crc « 8)^ 16 (( » 8) * *pc8lock*+J:
;}

```

()

CRC8

```
Name : CRC-8
Poly : 0x31 * 8 + * 5 + 4 + 1
In* : 0xFF
Revert false
XorOut 0x00
Check : 0xF7 C123456789*)
```

V

```
const unsigned char CRC8Table[256] - {
    0x00,0x31,0x62,0x53,0xC4, 0xFS, 0xA6,0x97,
    0xB9,0x88,0x06, 0xEA, 0x7D, 0x4C, 0x1F, 0x2E,
    0x43,0x72,0x21,0x10,0x87, 0xB6,0xE5,0xD4,
    0xFA 0xCB, 0x98,0xA9,0x3E, 0xOF, 0x5C, 0x6D,
    0x86,0xB7,0xE4, 0x05,0x42,0x73,0x20,0x11,
    0x3F, 0xOE, 0x50,0x6C, 0xFB, 0xCA, 0x99,0xA8,
    0xC5,0xF4,0xA7,0x96,0x01,0x30,0x63,0x52,
    0x7C, 0x40,0x1E, 0x2F, 0xB8,0x89, 0xOA, 0xEB,
    0x30, 0xOC, 0x5F, 0x6E, 0xF9,0xC8,0x96, 0xAA,
    0x84,0xB5,0xE6,0x07, 0x40, 0x71,0x22,0x13,
    0x7E, 0x4F, 0x1C, 0x20, 0xBA 0x88,0x08,0xE9,
    0xC7,0xF6,0xA5,0x94,0x03,0x32,0x61,0x50,
    0xB8, 0xSA, 0x09,0xE8,0x7F, 0x4E, 0x10,0x2C,
    0x02,0x33,0x60,0x51,0xC6,0xF7,0xA4,0x95,
    0xF8,0xC9, 0xSA, 0xAB, 0x3C, 0x00,0x5E, 0x6F,
    0x41,0x70,0x23,0x12, 0x85, 0xB4,0xE7,0xD6,
    0x7A, 0x4B, 0x18,0x29, 0xBE, 0x8F, 0xOC, 0xEO,
    0xC3,0xF2,0xA1,0x90,0x07,0x36,0x65,0x54,
    0x39,0x08,0x56, . 0xFO, 0xCC, 0x9F, 0xAE,
    0x80,0xB1,0xE2,0x03,0x44, 0x75,0x26, 0x17,
    0xFC, 0xCD, 0x9E, 0xAF, 0x38,0x09,0x5A 0x66,
    0x45,0x74, 0x27,0x16, 0x81, 0xOO, 0xC3, 0xD2,
    0xBF, 0x8E, 0xDD, 0xEC, 0x7B, 0x4A, 0x19, 0x28,
    0x06,0x37,0x64,0x55,0xC2,0xF3, 0xAO, 0x91,
    0x47,0x76,0x25,0x14, 0x83, 0xB2, 0xE1, 0xDO,
    0xFE, 0xCF, 0x9C, 0xAO, . 0x06,0x58,0x69,
    0x04,0x35,0x66,0x57, 0xCO, 0xF1,0xA2,0x93,
    0xBO, 0x8C, 0xDF, 0xEE, 0x79,0x48, 0x1B, 0x2A,
    0xC 1, 0xFO, 0xA3,0x92,0x05,0x34, 0x67,0x56,
    0x78,0x49, 0x1A, 0x26, 0xBC, 0x80, 0xOE, 0xEF,
    0x82, . . 0x01,0x46, 0x77,0x24,0x15,
    0x36, 0xOA, 0x59,0x68, 0xFF, 0xCE, 0x90, 0xAC
};
unsigned char CRC8(unsigned char *ipBlock, unsigned char ten)
{
    unsigned char crc = 0xFF;
    while (ten-- > 0)
        crc = CRC8Table((crc ^ *ipBlock++) & 0xFF);
    return crc;
}
```

()

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	0	1	3	4	5	6	7	9	D	.						
0		«01	?	*	ciKt*	»	0077		*0008	0800	0006					
1	x'?	«	012 X<		COU		"0? WB	0019	**	0016	001	0086	0017			
2		f	»	«22	# 0023	\$ %	& «	1 ? ()	*	+ 003	9	• 0820	• 0026	/ 007		
3	0 KN	1 0031	2 32	3	4 009*	5	6 X*	7 ?	8	9 0039	∴ 11A	* 0038	<	- 0830	> 0036	9 003F
4	∴ ;		42 »3	D 00*4	*5 F	*6 G	04?	I 0049	J		«	L		N 00*6		
5		Q	R «	S	006*	055	V 55	W 3057	X 0068	Y 0069	Z	5 0068	\ 096] 006	00SF	
6	X*	0	62 •	d 008*	«365	f 0065	g 0067	h *	0069	j 006*		1 008		0066	0	
7	Xfj		?? \$ 25	t 007*	«175	V JCb	W 0077	X 0078	0079	Z 7*	{ 0078	1 007	}	0076	0076	
8			0 2	008*	«	<	007?		0069	006*	0008		0060			
9		<	82		»4 «		»?	* 009»	008*	»	009	0080	0096			
	XAD	∴ 00*1	' 00*2	£	¥ 00*3	j 0 *	§ 0 7	€ 00*9	8_	« 00*8	-1	- (0*0)	® 00*6	»		
		± 0081	2 0092	3 «83		5 1	• *	» 1	*	»	*4	0080	3/4 0086	• 6	»	
	«		1 0X2^	!	^ 0X5	AL 0 f	? 0008		0	8	1	I 90	6 00CF			
D	D	« N_	»		∞	5 36	X ?	0	L)	°	* 0	Y 1>	00OF			
		°				it°	¥ 0067	0069		1	° 060	1 0 66	1 006F			
F	6 ?	11	?	«I*	-1 »5	00»		0 <1*8	core	XX*		° V	> 0066	0MF		

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	0	1	2	3	4	5	6	7	9			D	F			
0		0081	0003	0DC3	0034	0005		0087	0006	0008	0084		0000			
1	-s		0012			0015	»16	0017		0010	Q&M	00»	0810	»	0017	
2		I 0021	II 0022	#	\$ *	% ?	& 3326	1 0027	(0026) »		+	-	.	/	
3	0	1 0031	2 02	3	4	5 0035	6 0336	7 0057	8 <	9	:	;	<	-	>	
4	%				D 00*4	F 00*5	G 0346		I 004»	J 00*4		L 0048		N 00*0		
5		Q *51	R «62	S ^1		V 0054	W 0055	X 0056	Y 0057	Z 0058	[0054	\ 0058]			
6				d 005*		f 0065	g 0365	h 0057	1 0068	J 0054		1 0066		0 0MD	0 00SE	
7	X7J	q	»7?	\$ XT3	t 0074	(M7S	v 0376	W 0077	X 0078		Z 007	{ 007	1 007	}		
8	*.	0081		»	0084	0 85	0366	0087		9068	0084	0068		0880	00*	0017
9	.	0081			*		0396	0087	0096	0098		4	008	080		0097
		00*1			00*4	S 5	I 00*7	I 00*7	J 004»	> W	> 00*4		' 0048	- 08*0	W 00*8	U 0047
		0*11	*3**2	1413	04U	04*S	40	3 0*17	41 *	041»	0*14	0*«	041C	0*10	0*16	0*17
		« *1	4»		X «		-	« *	4?	»	«	<	< >	1	IMS*	(?
D	*»	3431	3432	3433	0*3*	0435	3436	3 0437	0*36	0*38	0*34	*	04	0*30	0*36	11 0437
	MU	0441	3442	-34*3	0*44	X 0445	34*6	0*47	III 04	044»	0444	44	044	0*40	0446	0*47
F	Ns :v*	0*51	1) C4S2		€ 0*54	S : 55	1 3*56	1 345*	j 0456	» 3458	> 0454	h 6456		§ 347		U IM57

	0	1	2	4	5	6	7	9				D	F			
0		00*1			0004	0004	0007		»	* 0000		coco	0006	00(6		
1	»		0012	0<		*	0017		0019	001	0019	001	0010	0016	001F	
2	!	»»	#	\$	%	&	1	()	*	+	9	•	•	/	
3	0	1	2	3	4	5	6	7	8	9	•	*	<	0030	>0036	9
4	&		00*2	:	*	D	F	*6	G	7	I	J	*	L	0	4
5	60	Q	R	S	64	CG45	V	W	X	Y	Z	*	1	098	\	1
6	*	Clht	&	.063	d	*	064	f	g	h	1	J	306	1		0
7			<072	\$	t	*	U	V	W	X	«7»	Z	007*	{	007	007
8	*	1	1)	*	»	00*7		»	*					00«6	00(6
9		00*1	W92				00*7		0099	*						0099
		0	£	00*3	*	¥	1	\$	©	X	«	-1	—	®	—	2036
	±	2	3	0	0CIA51	0OU	*		00*9	0007	00*0	0QAC		00*6		
	300	0«1	0*82	*	**»*	0484	11	•	1	..	»			¾		
D																
	2	}	*		*	1	0404		508	040»	1	040*	04	!?	0400	0406
F	34*0	V	V	0	04E3	C66*	5	*	7	*1	\	»	*			
		0442	0442	0	04E3	C66*	5	*	7	*1	\	»	*			

ETSITS126 267 (3GPP TS 26-267) (Technical Specification Group Services and System Aspects: eCall Data Transfer: In-band modem solution; General description, Release 8)

PI GSM 03.38 (ETS 300 628) (Digital cellular telecommunication system (Phase 2): Alphabets and language-specific information)

GSM 03.40 (ETS 300 536) (Digital cellular telecommunication system (Phase 2))

HI 17 (2006 . 142)

10 (2009 . 720)

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28.11.2012. » 07.02.2013. 80x84'/*.

» .) . . . 7.44. .- . . 7.10, 78 . 1887

• « « * . 123905 . . 4

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. 248021 , . . 258

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— 2014—09—01

» , «in-vehicle emergency call system» «irv-vehide emergency call system/device».

1.0—2004 1.0—2012;

1. « » « / »;

» ; « » « / ».

1. : « » « / »:

» « / ».

1. : « » « / »:

» « / ».

1. : « » « / »:

» « / ».

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54620».

2. 54620—2011 : « » « -

/ ».

3.1.1 .

«3.1.1 a/ : ():

» ,

» ,

() ()

1 MI. [7J. (8). N1.

[8].

2 1. [7]. [8]. N1.

[8]. 2. 3. N2 N3.

3 /

4 (6).

5 -

» , , [6]».

3.1.2 : « » « / ».

3.1.5 ():

(N?1 54619—2011)

«3.15

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5.5.3.

2

FLOAT DOUBLE

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	* « .		
FLOAT	4	± 12 - 38 3.4 + 38	« [9]
DOUBLE	8	± 22 — 308 ... 1.7 308	'- [9]

S.6.1.3.

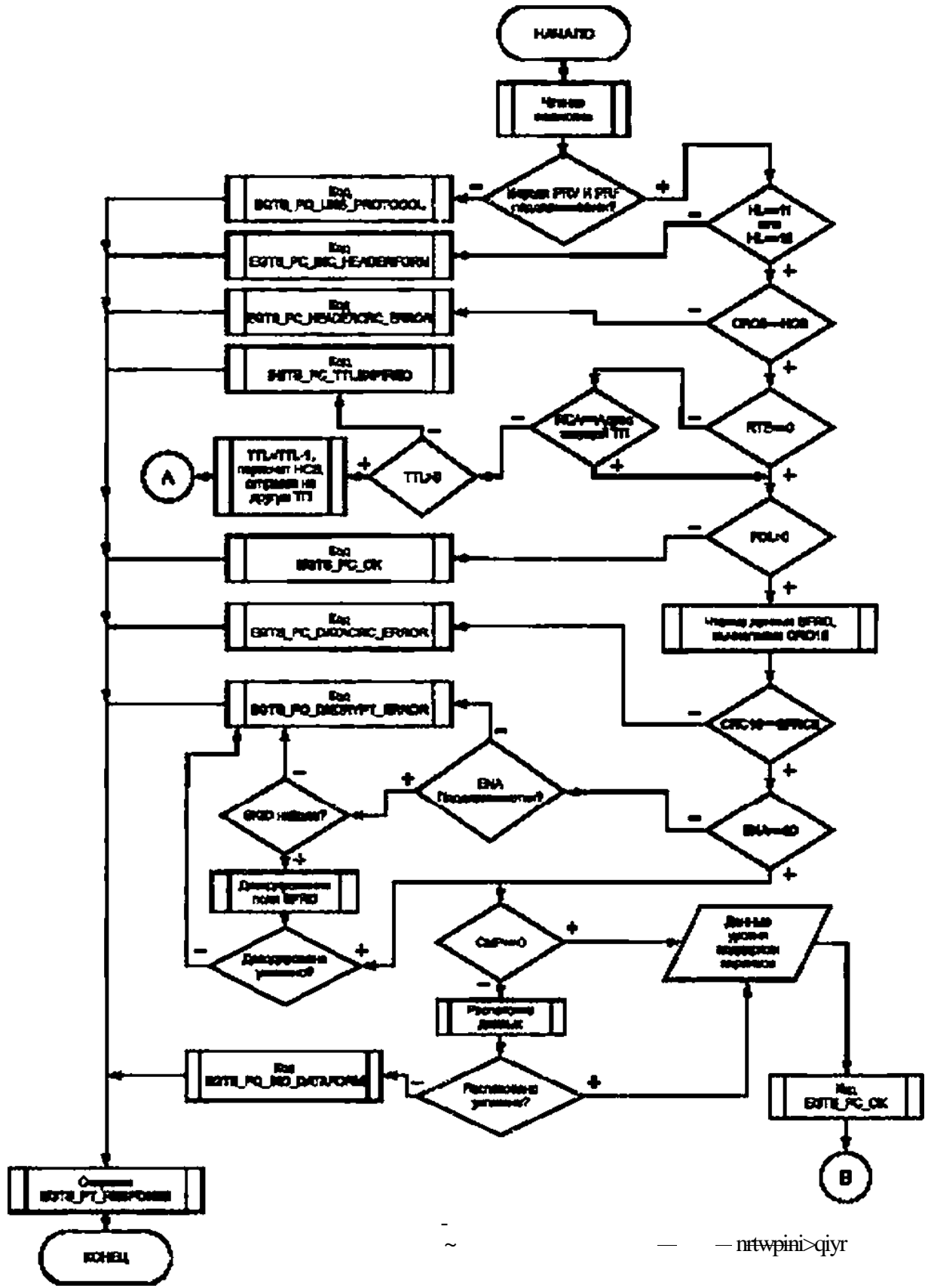
4

RTE (Route)

:

()	()
RTE (Route)	<p>! </p> <p>PRA. RCA, TTL.</p> <p>1.</p> <p>PRA RCA TTL</p> <p>(</p> <p>HOME_DISPATCHER_ID.</p> <p>).</p>

5.6.1.4. 1 :



~ - nrtwpini>qiy

5.622. 6. « , ».
 «SDR2». «SDRn» : 65517 65514. «SOR1 (Service Data Record)».
 5.62.3. 7. « ».
 : SHORT USHORT. «SIGL (Signature Length)» -
 5.72.1 :
 «5.72.1 SMS
 , TP_UD (. 8).
 140 .
 EGTS_PT_RESPONSE
 EGTS_SR_RECORD_RESPONSE
 SMS.
 EGTS_SR_COMMAND_DATA EGTS_COMMAND_SERVICE.
 , EGTS_SR_COMWAND_DATAc
 (CommandType) (CommandConfirmahonType).
 SMS EGTS.
 EGTS_SR_COMMAND_DATA, SMS».
 5.72.3 :
 « SMS EGTS
 EGTS 10 (140 - 6) - 1360 ,
 1360
 EGTS (SIGL/SIGD)
 (ACUAC)».
 5.8. 13. « » «TL_RECONNECT_TO»
 « ,
 , ».
 6.62.2. 14 :

14 —

7	6	5	4	3	2	1	1	0			
RL (Record Length)									USHORT	2	
RN (Record Number)									USHORT	2	
RFL (Record Flags)									BYTE	1	
SSOD	RSOD	RPP			TMFE EVFE OSFE						
OID (Object Identifier)									UINT	4	
EVID (Event Identifier)									UINT	4	
TM (Time)									UINT	4	
SST (Source Service Type)									BYTE	1	
RST (Recipient Service Type)									BYTE	1	
RD (Record Data)									BNARY	3... 65498	

«GRP»),) :
 «RPP»)—) :
 «• RPP (Record Processing Priority)— ,
 . 0 () 7 (-
)»:):
 «OID» : —2 :
 «• — , , ,
 () . , ,
 . ,

040.

8

OID

2 .

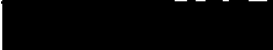
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EBTeJTWCKLDWA. 1.
 » (GBFE*1,(21);
 ECT8_SR_Cafc*WCJWA [^ . *
 Commend 09» (AOR=S, SZ=0, ACT=0, CCTW3jrejECAIJL_TRACK_QMAg

.(^ 2.
 (& _ _ *1 » t
 » .cCT"CC ok gp»ij

E9re_9R_TRACKJV0A 00 » 3-
 ESawoHi mmpwni (0 >1.]
 -i- - - - i *



2a—

OID*.

6.7.2. 17

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17 —

EGTS.AUTH.SERVICE

0	EGTS.SR.RECORD.RESPONSE	-
1	EGTS.SR.TERMJIDENTITY	-
2	EGTS.SR_MODULE.DATA	-
3	EGTS.SR.VEHICLE.DATA	-
	EGTS.SR.AUTH.PARAMS	-
7	EGTS.SR.ALfTH.INFO	-
8	EGTS.SR.SERVTC.E.INFO	-
9	EGTS.SR.RESULT.CODE	-

6.7.2.1. «RST» ;
«-RST— »:
():
« (natera EGTS_PT_RESPOMSE)
— EGTS_SR_RECORD_RESPONSE».

6.7.2.2. « » :
«* TID— , . 0
, « - » »
. TID »
(IMSI. IMEI. senal.id).
(VIN. IMSI. IMEI);».

6.7.2.3. 21. « »». « (Module)» :
«BYTE» «SHORT».

6.7.2.4. «VPST» (—)):
VPST— . ,
0. :».

6.7.2.8. :
« EGTS_SR_RESULT_CODE :».

6.7.2.9. :
« UNIT JD. — IMEI. IMSI .

54721. -
EGTS_AUTH_SERVICE . EGTS_ECALL_SERVICE
EGTS_AUTH_SERVICE GPRS -

TCP/IP.»:
1), 2) 4.5 :
*1) « » -
GSM UMTS
SMS -

EGTS_SR_COMMAND_DATA

EGTS_COMMANOS.SERVICE.
GPRS), EGTS_GPRS_APN (-
TCP/IP , EGTS_SERVER_ADDRESS,
SMS- , ** UNfTJD. -

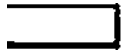
GPRS TCP/IP. -
4. GPRS TCP/IP
2) GSM UMTS GPRS TCP/IP

IDENTITY (17). TID EGTS_SR_TERM_ -

SERVICE SMS. EGTS_SR_COMMAND_DATA EGTS_COMMANDS_ -

EGTS_PCJD_NFOUND. , TID = 0 ,

1 £



, UWTSpUB, IH8I]

[EQT9 SR COMMANDJMIA { ^ MJIM. ^' .. .« GPR81
Camwid Data OCT-2. & _

) 1 .C00SugMaB2.
[ECrS £2^ QQUAMD_ *» 1.
(. ccpccl ok, ctxn

; 9.
RUSTS SR COMAAND_QATA<CT<T «. CCTHX.OK, Ct>1);
1 ^&(< ^ > 10-1 ^>8. "» > >

*.
[RQre_aR_OOUMAMD_OOTiMa cnafkmv 3.
(CT-ct_jccmconf. .

Vittwa 1
[EOTS_sa_CCMHWJ>jjrA <CT-CT_CCW. CCT*CC_OK CD-2);
OmmMI (- . ^ . DTNUNFTJDJ

». 6. *S
[EOTS_SILC<AIUAND_DATA w -
(CT-ct_comc »f. »ccjk cmh

/ 7.
IE 07 _8 _ j aeimTY]

) . &
[E(n^_6^JCGORD_REBPOH6E Hi 7]

- » .
{E<3re_SR_v&iaEjaAwj

10.
[EgTg]B^JEOORD RESPOWSE]

1 * . 11.
PGT8_S*_RE3U.T..G00E]

9_ 1_ 0 ?_ 0 * 12. 11]



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^teraw*T22P£5SttS2S£2E5SBS!^—

»». 1.

[EGT8jaHJTERMJOEHHTTY (! >*. IMEL M8)]

— →! .Coo&newo 2.

[E<nS_S^_REG0RQJESP0N5E 1]

[8_8 HJJB4CLE_pAW]

(_& _ —1 — _ 9 8 *]

{E0T9^8^COMi4WJ>«A{C1^Cr.COM. ^ . CCW):
Pete («2. CCO«teiB_UHfTJP. &

—1 — —1 —&
(EOre.ea.CSMUAMO.CMTA 5
(= , = OK,CD*g

PBMibTXT
[E]STS_8RJS8ULT_COQE (2>»« _ JDJFOUND3

[BTTS_9R_RECORD,, SPOHBE m & 7]

fl HbEjWTBmW\$ (Al*«. Cae6LW*0.
[^_8 _ 1_ 0 (MKFW.U _ .IUEI, Q]]

. C«06u|tHM 10.
(OTS_SR_ QOfa_ 8PO«8E^ g]

40 . 11.
[EGTS_SRJVB1CLEJ3Xn]

— — 12.
[Earr8_afU«CORD_PESPOMSE 11]

13.
_____ (< _ ^?£ 1 _ EJ _____

14.
[EOTB \$RJ^ECORP H&aPONBe » 13]



6.7.3.1. « - ».
 «) 0100—CT.MSGTO—
 :
)0101— — :»;
 «SID» :
 «- SJD —

CT_MSGCONF. CT_DEL1V) (CT.COMCONF.

EGTS_SR_COMMAND_DATA

0;»:
 « » (29) :
 «- — , (), -

CCJLL.
 EGTS_SET_AUTH_CODE.»:

«ADR» (31) :
 «•ADR — , ,

EGTS_AUTH_SERVICE EGTS_SR_MODULE_DATA
 EGTS_ECALL_REQ. EGTS_ECALL_MSD_REQ ADR

0;».

6.7.3.2. :
 « — 33: — 34»; 32,
 32
 32 —

»		»	
EGTS_RAW_DATA	0x0000	BINARY (65200)	ADR
EGTS_TEST_MODE	0x0001	BYTE	1— / : 0—
EGTS_CONFIG_RESET	0x0006		ACL . 29
EGTS SET AUTH CODE	0x0007	BINARY	29. ACL .
EGTS_REST ART	0x0008		ACL . 29

33.
34

EGTS_SELF_TEST_RESULTh

;

34 —

		«	no			^
mule						
EGTS_RADIO_MUTE_DELAY	0x0201	INT	0	mule	-	
EGTS_RAOIO_UNMUTE_OEIAY	0x0202	INT	0	mule	-	
»						
EGTS_GPRS_Af>N	0x0203	STRING		GPRS	-	.
EGTS^SERVER. ADDRESS	0x0204	STRING		/	-	.
EGTS_SIM_PIN	0x0206	INT	0	PIN- SIM-	.	.
EGTS_INT_MEM_TRANSMIT_INTERVAL.	0x0206	INT	60	SMS.	-	.
EGTS..INT. MEM TRANSM ATTEMPTS	0x0207	INT	10	SMS	.	.
».						
EGTS_TEST_REGISTRATION_PERIOO	0x0242	INT	5	0.	-	.

						**
EGTS.TEST_MOOE_ENO_OISTANCE	0 020	INT	300			**
« »						
EGTS.GARAGE.MODE.END.DISTANCE	0x020	INT	300			
EGTS.GARAGE_MOOE.PIN		INT/0..A	0	tw . NONE — ; X — PIN.X		
« »						
EGTS.GNSS.POWER.OFF.TIME	0x0301	INT	500			
EGTS_GNSS_OATA_RATE	0x0302	INT/1.2.5.10	*			
EOTS_GNSS_MIN_ELEVATION	0x0303	INT.5. .15	15	()		
« »						
EGTS.UNITJO	0x0404	INT	0	*)		

			oo			**
EGTSJJNIT JMEI	0x0405	STRING	—	IMEI	.	.
EGTS_UNIT_RS465_BAU0_RATE	0x0406	INT	19200	RS485.	.	.
EGTS_UNIT_RS465_STOP_BITS	0x0407	INT	1	- RS465	.	.
EGTS„UNIT_R\$4e5J»ARITY	0x0406	INTO.1.2	0	RS465: 0 — 2 — EVEN	.	.
EGTS_UNIT_HOME_OISPATCHER JO	0X0411	INT	0		- * - -	.
EGTS.SERVICE _AUTH _METHOD	0x0412	INT	1	1 — >« (: 0 — (): > .» -)	.	.
EGT5_SERVER_CHECK_IN_PERIOD	0x0413	INT	30	TCP/IP	- -	.
EGTS_SERVER_CHECKIN_ATTEMPTS	0x0414	INT	5	TCP/IP (GPRS)	.	.
EGT8_SERVER_PACKET_TIMEOUT	0x0415	INT	5		.	.

					»	**
EGTS_SERVER_PACKET_RETRANSMIT_ATTEMPTS	0x0416	INT	3	TCP/IP	.	
EGTS_UNIT_MIC_LEVEL	0x0417	INT.0 10	8		.	
EGTS_UNIT_SPK_LEVEL	0x0418	INT.0...10			.	

- EGTS_SELFTEST_INTERVAL;
 - EGTS.TOST TEST REGISTRATION TIME;
 - EGTS.TESTMODEWATCHDOG;
 - EGTS_USE_GPRS_WHITE_LIST;
 - EGTS_GPRS_WHITE_LIST;
 - EGTS_UNIT_SERIAL_NUMBER;
 - EGTS_UNIT_HW_VERSION;
 - EGTS_UNIT_SW_VERSION;
 - EGTS_UNIT_VENOR_ID;
 - EGTS_UNIT_LANGUAGE_ID;»;
- :-
- «- EGTS_INT_MEM_TRANSMIT_INTERVAL;
 - EGTS_INT_MEM_TRANSMIT_ATTEMPTS».

6.7.3 —6.7.3.3 7 .76: 7 76.
«6.7.3.3

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[. . . ECAI-kJ*33_REC1 1.
» (= - , = - , =1);
shj.act- . . >EGTS^EWLLJ4BDJCOJ
)
EGT8_8fL.COMM pJMTA 1
(CT^CT COMOO . « , , |

[REDACTED]

[REDACTED]

7 — EGTS_ECALL_MSO_REQ no SMS

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«— — . — — 1.
() _8_ >_ (= - , = - ,):
D*i(AOR-0.32*0, . « * -J 01

[EGT8_£B^_RECORD_ 0 8 1]
[KrajSR.COUMANO-QATA mffiwuik t
(CM7T COMCONF. CCT-CC.OK. C<>S):
Conrand Oau (ADR)*, « _ _ 1,OT-4UB number]

[REDACTED]

[REDACTED]

76— ».

7.2.3 .
7.3. 40. «EGTS_SR_MSD_DATA*. 50
7.3.2. « »(41) :
« —
EGTS_SR_ACCEL_QATA
(« »):»:
«XAAV, YAAV. ZAAV» (42) :
« XAAV— X: 0.1 / 2;
•YAAV— Y: 0.1 / 3;
- ZAAV— Z: 0.1 / 2.

0,01 G ».
7.3.3. 43. « , ». «MSD» : «0...1024» «0...116»:
«MSD» (43) :
«MSD— ».
7.3.4 .

7.3.5. 45. « , ». «TDS1, TDS2, TDS25S» : 8
 «1...12».
 7.5 (, 47.49): 48 -
 :
 «7.5.1 , , 47 49.
 54721. .
 7.5.2 . « , » -
 « » (49). , -
 7.5.3 . , -

6.7.3.2.

- EGTS_ECALL_TEST_NUMBER;
- EGTS_ECALL_SIGNAL_INTERNAL;
- EGTS_ECALL_SIGNAL_EXTERNAL;
- EGTS_ECALL_SOS_BUTTON_TIME:
- EGTS_ECALL_CCFT;
- EGTS_ECALL_INVTTATX3N_SIGNAL_CXJ_RATION:
- EGTS_ECALL_SEND_MSG_PERIOD:
- EGTS_ECALL_ACK_PERIOD;
- EGTS_ECALL_MSD_MAX_TRANSMISSION_TIME;
- EGTS_ECALL_NAD_DEREGISTRATION_TIMER
- EGTS_ECALL_DIAL_DURATION;
- EGTS_ECALL_AUTO_DIAL_ATTEMPTS;
- EGTS_ECALL_MANUAL_DIAL_ATTEMPTS:
- EGTS_ECALL_MANUAL_CANCEL;
- EGTS_ECALL_SMS_FALLBACK_NUMBER:
- EGTS_CRASH_RECORD_TIME:
- EGTS_CRASH_RECORD_RESOLUTION;
- EGTS_CRASH_PRE_RECORD_TIME
- EGTS_CRASH_PRE_RECORD_RESOLUTION:
- EGTS_TRACK_RECORD_TIME;
- EGTS_TRACK_RECORD_RESOLUTION;
- EGTS_TRACK_PRE_RECORD_TIME;
- EGTS_ECALL_BLACK_LIST:
- EGT3_VEHICLE_VTN.
- EGTS_VEHICLE_TYPE:
- EGTS_VEHICLE_PROPULSION_STORAGE_TYPE.»:

47

47 —

EGTS.ECALL.REQ	0x0112	/0,1	SMS. : 0 — 1 —
EGTS_ECALL_MSO_REQ	0x0113	BINARY (MID INT. TRANSPORT BYTE)	SMS. : MD — MID = 0.

		* « #	*
			TRANSPORT — / : 0 — , : 1 — : 2 — SMS
EGTS.ACCEL.DATA	0x0114	—	SMS .
EGTS_TRACK_DATA	0x0115		SMS .
EGTS ECALL DEREGISTRATION	0x0116	—	

:

			no		*
»<					
EGTS_ECALL_TEST_NUMBER	0x0200	STRING		« - . .	«
» « - » 54721					
EGTS_ECAII_ON	0x0210	BOOLEAN	TRUE	- . .	
EGTS_ECALL.CRASH.SIGNAL.INTERNAL	0x0211	BOOLEAN	TRUE		
EGTS_ECALL_CRA8H_SIGNAL_EXTERNAL	0x0212	BOOLEAN	TRUE	. { ' }	«
EGTS_ECALL_SOS_BUTTON_TIME	0x0213	INT	200	« ,	«
EGTS_ECAU.NO.AUTOMATIC.TRIGGER! NO	0x0214	BOOLEAN	FALSE	« *	
EGT8.ASM5.TRE8HOLO	0x0215	FLOAT	1.5		ASI15

			no			*
EGTS.ECALL.MODE.PIN	0x0218	INT/ ..	0	<p>».</p> <p>NONE —</p> <p>:</p> <p>X — pin.X »</p>		
EGTS.ECALL.CCFT	0x0217	INT	80			
EGTS_ECALL_NVITATION_SIGNAL_DURATION	0x0218	INT	200	INVITA-TION,		
EGTS.ECALL.SENO. MSG.PERIOO	0x0219	INT	200	SENO MSG.		
EG TS _ EC All. At _ACK _P E RIOO	Ox 021A	INT	200	AL-ACK.mc		
EGTS.ECALL.MSO.MAX. TRANSMISSION_TIME	0x021	INT	20			
EGTS_ECAU_NAO_OE REGISTRATION. TIMER	0x0210	INT	8	GSM , UMTS		
EOTS_ECAU_OIAL.OUR AT ION	0X021E	INT	8			
EGTS_E CALL. AUTO. OIAL. ATTEMPTS	0x021F	INT	10	0		
EGTS..ECALL.MANUAL. OIAL..ATTEMPTS	0x0220	INT	10	0		

			no			**
EGTS.ECALL MANUAL,CAN.CANCEL	0x0222	BOOLEAN	TRUE	TRUE —	,	* . .
EGTS.ECALL.SMS FALLBACK NUMBER	0x0223	STRING	'112"	SMS	,	- . .
IGNITION_OFF_FOLLOW_UP_TIME1	0x0224	INT	120		,	
IGNITION_OFF_FOLLOW_UP_TIME2	0x0225	INT	240		,	*
EGTS_CRASH_RECORO_TIME	0x0251	INTA . 250	250		,	
EGTS_CRASH_RECORO_RESOLUTION	0x0252	INT/1..S	1		,	
EGTS,CRASH_PRE_RECORD_TIME	0x0253	INT/0..20000	20000		,	
EGTS. CRASH, PRE.RECORO RESOLUTION	0x0254	INT5.. 100	5		,	

N)

49

			no			**
EGTS.TRACK_RECORO.TIME	0x 025A	INTJ0..-1S0	10			
EQTS_TRACK_PRE_RECORD_TIME	0x025B	INTO..600	20			
EGTS_TRACK_RECORO .RESOLUTION	0X025C	INT.1 30	10	100		
EGTS.VEH ICLE.VN	0x0311	STRING		VIN 7)]	{	
EGTS.VEHICLE PROPULSION. STORAGE. TYPE	0x0313	INT	0	(LPG);	0. : } 31— : 6} 5: 1 — ;) 4; 1 — (42 100 / >; } 3: 1 —	

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						?
) 2: 1 — * (CNG);) 6 1: 1 — ;) 0: 1 —	
EG S_VEHICL £_TYP	0x0312	INT	0		1 — . < 1>; 2 — (2); 3 — (3); 4 — (N1); \$ — (N2); 6 — (N3); 7 — (); 8 — (L2e); 0 — {13 }; 10 — (14); 11 — (L5e); 12 — (16); 13 — <17)	
<p>11 « * — . « » — .</p> <p>* « - »; « » — .</p> <p>54721</p> <p>« » — , « . « » —</p>						

8.1 8 :
«8.1 AL-ACK,

« - *
,
».

8.2. 50. « »
» :
«0— (Positive):
1— (Oeardown)».

« » —[6]—(9):

«[6] (018/2011) (9 2011 . 877 (-
30.01.2013 6)

[7] N9 94-01 , 1—3 -

[8] Ne 95-02 , 1 -

[9] ISO/IEC 10967-1:2012 . , 1 . 1. -

(Information technology — Language independent arithmetic —
Part 1: Integer and floating point arithmetic)».

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(N9 92014 .)