ERA GLONASS Terminal
Communications Protocol
Service Support Protocol
Emergency Response to Accidents Service

Version: 1.6

Code: ERA GLONASS

Contents

1. INTRODUCTION

This document describes the Emergency Response to Accidents service for the ERA GLONASS system. This document provides all necessary data on the format and rules of message transfer of the service and is to be used together with the documents “ERA GLONASS Terminal, Communications Protocol, Transport Level” and “ERA GLONASS Terminal, Communications Protocol, Service Support Protocol” for the development of data transfer subsystems on the side of the ERA GLONASS terminals and the System Operator.

The document is intended for use by:

- terminal equipment manufacturers
- car manufacturers
- service developers and providers
- System Operator.

2. ABBREVIATIONS

Abbreviations	Description
ST	Subscriber Terminal
GLONASS	GLObal NAvigation Satellite System
UIM	User Interface Module
RA	Road Accident
TUI	Terminal User Interface
MDS	Minimum Data Set
NIS	Navigation Information Systems
RAM	Random Access Memory
SW	Software
TP	Telematic Platform
V	Vehicle
ERA	Emergency Response to Accidents
EGTS	Era Glonass Telematics Standard

3. REFERENCES

[1] ERA GLONASS Terminal, Communications Protocol, Transport Level

[2] T ERA GLONASS Terminal, Communications Protocol, Service Support Protocol

[3] EN 157221 Road transport and traffic telematics, Safety in emergency cases, Minimum data set eCall

[4] ITU-T E.164

4. SERVICE DESCRIPTION

This service type is designed to ensure the functional performance of the ERA service. The service is defined as EGTS_ECALL_SERVICE in the Service Support Protocol and coded as 10.

5. MINIMUM REQUIRED SET OF FUNCTIONS FOR EGTS_ECALL_SERVICE USE

To use EGTS_ECALL_SERVICE on the ST side, the following set of functions shall be implemented:

- Support of the EGTS_COMMANDS_SERVICE command processing service described in Sub-Clause 6.4 [2]
- Support of the EGTS_ECALL_REQ, EGTS_ECALL_MSD_REQ commands sent by the system operator through SMS and transmission of corresponding responses and confirmations to them.
- Processing of the EGTS_TEST_MODE, EGTS_TEST_MODE_START_TEST commands sent by the system operator through GPRS and transmission of corresponding responses and confirmations to them
- Transmission of the acceleration profile data through GPRS (the EGTS_SR_ACCEL_DATA subrecord)
- Processing of the ST parameter setting commands sent by the operator through GPRS and SMS and transmission of corresponding confirmations to them.

6. EGTS_ECALL_SERVICE COMPOSITION

6.1 DESCRIPTION OF SUBRECORDS

To ensure interaction within the framework of this Service, several subrecords, the description and the code of which are given in Table 1 are used.

Table 1: EGTS_ECALL_SERVICE subrecords list

Code	Name	Description
0	EGTS_SR_RECORD_RESPONSE	Subrecord is used for confirmation of a record of the Service Support Level Protocol of EGTS_PT_APPDATA type package.
20	EGTS_SR_ACCEL_DATA	Subrecord is intended for transmission of ST acceleration profile data to TP
40	EGTS_SR_RAW_MSD_DATA	Subrecord is intended for transmission MSD of ST in original form.
50	EGTS_SR_MSD_DATA	Subrecord is used by ST for MDS transmission to TP.
62	EGTS_SR_TRACK_DATA	Subrecord used to transmit data on the trajectory of the vehicle during an accident on the TP

6.1.1 EGTS_SR_RECORD_RESPONSE SUBRECORD

This subrecord has the same structure as described in p. 6.2.1.1 [2]

6.1.2 EGTS_SR_ACCEL_DATA SUBRECORD

The subrecord structure is given in Table 2.

Table 2: EGTS_SR_ ACCEL_DATA subrecord format of EGTS_ECALL_SERVICE

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Type	Data type	Bytes
SA (Structures Amount)								M	BYTE	1
ATM (Absolute Time)								M	UINT	4
ADS1 (Accelerometer Data Structure 1)								M	BINARY	8
ADS2 (Accelerometer Data Structure 2)								O	BINARY	8
.								.	.	.

. . .	. .	. .	. .
ADS255 (Accelerometer Data Structure 255)	O	BINARY	8

- SA – quantity of accelerometer value data structures to be transmitted
- ATM – time of taking measurements of the first accelerometer value structure to be transmitted (quantity of seconds from 00:00:00 01.01.2010 UTC);
- ADS1 … ADS255 – accelerometer value data structures, the structure format is given in Table 3. It should be noted that at least one ADS structure shall be transmitted as part of a subrecord.

Table 3: Accelerometer value data structure format of the EGTS_SR_ ACCEL_DATA subrecord of ECALL_SERVICE subrecord

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

- RTM – increment to time of measurement of a previous record (for the first record, increment to ATM field) in milliseconds
- XAAV – X axis acceleration value (the high-order bit determines the sign, 1 means a negative value), 0.1 m/sec^2
- YAAV – Y axis acceleration value (the high-order bit determines the sign, 1 means a negative value) , 0.1 m/sec^2
- ZAAV –Z axis acceleration value (the high-order bit determines sign, 1 means a negative value) , 0.1 m/sec^2

  The resolution power of the acceleration fields is ~0.01G.

6.1.3 EGTS_SR_RAW_MSD_DATA SUBRECORD

The subrecord structure is given in Table 4

Table 4: EGTS_SR_RAW_MSD_DATA Subrecord Format for EGTS_ECALL_SERVICE

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Type	Data type	Bytes
FM (Format)								M	BYTE	1

MSD (Minimal Set of Data)	M	BINARY	0…1024

- FM – format of the data contained in the MSD of the subrecord. This version of the document identified the following possible values for this field:

  0 = format is unknown

  1 = packet encoding rules prEN 15722:2010 [3]

  Not mentioned in this document field values are optional FM should be agreed between manufacturer IVS and operator.
- MSD –data set (the size of this field is determined by the size of the field FM, as well as the field value SRL (Table 3 [2])

6.1.4 EGTS_SR_MSD_DATA SUBRECORD

The subrecord structure is given in Table 5 and meets the requirements to MDS described in [3].

Table 5: EGTS_SR_MSD_DATA subrecord Format for EGTS_ECALL_SERVICE

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Type	Data type	Bytes
FV (Format Version)								M	BYTE	1
MI (Message Identifier)								M	BYTE	1
CN (Control)								M	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)								O	BINARY	2
RVP n-1 LOND(Recent Vehicle Position n-1 Longitude Delta)								O	BINARY	2
RVP n-2 LATD(Recent Vehicle Position n-2 Latitude Delta)								O	BINARY	2
RVP n-2 LOND(Recent Vehicle Position n-2 Longitude Delta)								O	BINARY	2

NOP (Number Of Passengers)	O	BYTE	1
AD (Additional Data)	O	STRING	0…56

- FV – data format version (a field is to have value 1)
- MI – message identifier (a field is to have the value starting from 1 and increase by 1 when any message is sent after the occurrence of an event)
- CN – bit control field
- VT – bit flags characterizing Vehicle Type

  0001 – passenger (Class M1)
  0010 = bus (Class M2)
  0011 = bus (Class M3)
  0100 = light-duty truck (Class N1)
  0101 = heavy-duty truck (Class N2)
  0110 = heavy-duty truck (Class N3)
  0111 = motorcycle (Class L1e)
  1000 = motorcycle (Class L2e)
  1001 = motorcycle (Class L3e)
  1010 = motorcycle (Class L4e)
  1011 = motorcycle (Class L5e)
  1100 = motorcycle (Class L6e)
  1101 = motorcycle (Class L7e)
- POCN – (Position Confidence) bit flag defining the location data reliability

  1 = location data are unreliable (if a location could not have been determined with ±150 m accuracy with 95% reliability)
  0 = location data are reliable
- CLT – (Call Type) bit flag that defines the call type

  1 = test call
  0 = emergency call
- ACT – (Activation Type) bit flag defining an event activation type

  1 = automatically
  0 = by hand
- VIN – V identifier according to ISO 3779
- VPST – Vehicle Propulsion Storage Type type

  If all bytes are 0, a type is not set
  Bit 7 - 6: not used
  Bit 5: 1 = hydrogen
  Bit 4: 1 = electricity (over 42 V and 100 A/)
  Bit 3: 1 = liquid propane (LPG)
  Bit 2: 1 = condensed natural gas (CNG)
  Bit 1: 1 = diesel
  Bit 0: 1 = petrol
- TS – Event time. The quantity of seconds from 00:00:00 01.01.1970 according to the universal synchronized time (UTC). In case of impossibility to define event time, to be set equal to 0. This field is to be interpreted on the receiving side like the UINT type with the big-endian bit sequence.

- PLAT – V location latitude at event time, according to ISO-6709 in milliseconds. In case of absence or impossibility to define a latitude value, this field must contain the value 0x7FFFFFFF. This field is to be interpreted on the receiving side like the INT type with the big-endian bit sequence. The negative values are represented by two's complement method. For example the hexadecimal representation of value 90°00'00.000" will be as following 90*60*60*1000=324000000d = 0x134FD900 and value -90°00'00.000" as -90*60*60*1000 = -324000000d=0xECB02700.
- PLON – V location longitude at event time, according to ISO- 6709 in milliseconds. In case of absence or impossibility to define a longitude value, this field must contain the value 0x7FFFFFFF. This field is to be interpreted on the receiving side like the INT type with the big-endian bit sequence. The negative values are represented by two's complement method.
- VD – V movement direction from the direction to the north magnetic pole clockwise, with the increment of 2°. The range of possible values is 0 … 129. In case of absence or impossibility to define a value, this field must contain value 0xFF.
- RVP n-1 LATD – difference of the V location latitude with respect to the PLAT field value with the increment of 100 milliseconds. Positive values are to the north, and negative values are to the south. The range of possible values is -512 … +511. In case of absence or impossibility to define a latitude value, this field must contain the value 0x7FFF. This field is to be interpreted on the receiving side like the SHORT type with the big-endian bit sequence. The negative values are represented by two's complement method.
- RVP n-1 LOND – difference of the V location longitude with respect to the PLON field value with the increment of 100 milliseconds. Positive values are to the east, and negative values are to the west. The range of possible values is -512 … +511. In case of absence or impossibility to define a longitude value, this field must contain the value 0x7FFF. This field is to be interpreted on the receiving side like the SHORT type with the big-endian bit sequence. The negative values are represented by two's complement method.
- RVP n-2 LATD – difference of the V location latitude with respect to the RVP n-1 LATD field value with the increment of 100 milliseconds. Positive values are to the north, and negative values are to the south. The range of possible values is -512 … +511. In case of absence or impossibility to define a latitude value, this field must contain the value 0x7FFF. This field is to be interpreted on the receiving side like the SHORT type with the big-endian bit sequence. The negative values are represented by two's complement method.
- RVP n-2 LOND – difference of V location longitude with respect to the RVP n-1 LOND field value with the increment of 100 milliseconds. Positive values are to the east, and negative values are to the west. The range of possible values is -512 … +511. In case of absence or impossibility to define a longitude value, this field must contain the value 0x7FFF. This field is to be interpreted on the receiving side like the SHORT type with the big-endian bit sequence. The negative values are represented by two's complement method.
- NOP – number of fastened seat belts. In case of absence of information, this field is to have value 0xFF
- AD – additional data

The use of optional parameters in the EGTS_SR_MSD_DATA subrecord is to be defined based on the total size of the subrecord. If a optional parameter is to be transmitted, for example, the NOP field, all the preceding non-mandatory field, RVP n-1 LATD, RVP n-1 LOND, RVP n-2 LATD, RVP n-2 LOND are also to be transmitted but with corresponding fillers.

6.1.5 EGTS_SR_TRACK_DATA SUBRECORD

The subrecord structure is given in Table 6.

Table 5: EGTS_SR_MSD_DATA subrecord Format for EGTS_ECALL_SERVICE

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

- SA – number of transmitted points trajectory vehicle
- ATM – the reference time of measurement (number of seconds since 00:00:00 01.01.2010 UTC). It is used as the starting time for the transferred structure with an accuracy of 1 second. A more accurate measurement time is determined by taking into account the fields of information about the structure of RTM single point trajectory;
- TDS1 … TDS255 –Data structure containing the parameters of a single point trajectory TC. The format structure is presented in Table 7. It should be noted that in the podzapisi EGTS_SR_TRACK_DATA be passed at least one structure of TDS.

Таблица 7: Format of the data structure of each individual point trajectory vehicle subrecord format EGTS_SR_ TRACK_DATA for EGTS_ECALL_SERVICE

Бит 7	Бит 6	Бит 5	Бит 4	Бит 3	Бит 2	Бит 1	Бит 0	Тип	Тип данных	Размер, байт
TNDE	LOHS	LAHS	RTM (Relative Time)					M	BYTE	1
LAT (Latitude)								O	UINT	4
LONG (Longitude)								O	UINT	4

SPDL (Speed Low Bits)		O	USHORT	2
DIRH	SPDH (Speed Hi Bits)			
DIR (Direction)		O	BYTE	1

- TNDE – (Track Node Data Exist) Bit specifies the presence of components of the data point of the trajectory of motion in the structure of TDS (fields LAT, LONG, SPDL, DIRH, SPDH, DIR)

  1 = data is transmitted
  0 = Data is not transferred (for a specified time could not obtain reliable information about the position and velocity with the required accuracy. Either position is not valid, or defined with poor accuracy). Fields LAT, LONG, SPDL, DIRH, SPDH, DIR is not transmitted as part of the structure, and its size is 1 byte
- LOHS – bit flag specifies the longitude hemisphere

  0 = east longitude

  1 = west longitude
- LAHS – bit flag specifies the hemisphere latitude

  0 = north latitude
  1 = south latitude
- RTM – increment to the previous record time of measurement (for the first increment of the record to the field ATM) in 0.1 seconds. Specifies the time of the measurement point of the trajectory. The maximum possible value of the increment is 3.2 seconds
- LAT – Latitude modulo degrees (WGS 84) / 90 * 0xFFFFFFFF and the integer part;
- LONG – Longitude modulo degrees (WGS 84) / 180 * 0xFFFFFFFF and the integer part;
- SPDL, SPDH – lower (SPDL) and higher (SPDH) bits of the parameter speed (using 15 bits). Measured at 0.01 km / h. The maximum rate that is passed in this field is 327.67 km / h.
- DIRH – (Direction the Highest bit) higher bit (8) of the parameter DIR
- DIR – direction, in degrees relative to the north in a clockwise direction (most significant bit is optional in the DIRH). The value of the direction must be within the range from 0 to 359;

7. EGTS_COMMANDS_SERVICE USE

The description, the composition and the formats of the EGTS_COMMANDS_SERVICE subrecords are provided in [2].

7.1 DESCRIPTION OF COMMANDS, PARAMETERS AND CONFIRMATIONS

The list and the description of the ST commands and confirmations necessary for use of the ERA service are given in Tables 5 and 6.

Table 8: ST Commands List

Command name	Code	Parameter type, quantity and limits	Description
EGTS_ECALL_REQ	0x0112	BYTE/0,1	Command to make an Emergency call.To be used only through SMS. Command contains one parameter that defining an event activation type: 0 – manually generated 1 – automatically generated
EGTS_ECALL_MSD_REQ	0x0113	BINARY (MID INT, TRANSPORT BYTE)	Command to make a subsequent MDS transmission. To be used only through SMS. Command has two parameters: MID – message identifier of required MSD. If parameter has value equal 0 the next value of message identifier in MSD is generating; TRANSPORT – transport type is used by ST to send MSD 0 – any transport preferred by ST; 1 – via voice channel (in-band); 2 – via SMS; 3 – via packet data transmission services.
EGTS_TEST_MODE_START_TEST	0x0003	BYTE/ 0…8	Command exercising launch of tests in the “test regime”. The command may have the

			following values: 0 – sequential launch of all tests; 1 – examination of a call service center; 2 – examination of an external (commercial) call service center; 3 – microphone test; 4 – dynamic speaker test; 5 – switch starting/key off test; 6 – expanded UIM test; 7 – built-in reserve accumulator battery test; 8 – automatic RA detection sensor test.

Table 9: ST Command & Message Confirmation List

Command name	Code	Type and quantity of parameters	Description
EGTS_TEST_MODE_START_TEST	0x0003	BINARY (8 bits)	Test results. Each bit contains a code defining a test result (see the TEST_MODE_START_TEST description from Table 8). 1st bit – test 1, 2nd bit – test 2, etc.

Table 10: ST parameter list

Parameter name	Code	Parameter type	Value by default	Description
General purpose installations				
EGTS_ECALL_BLACK_LIST	0x0206	ARRAY OF STRING [20]	“”, “”	List of networks in which the Emergency Call service is not provided
EGTS_ECALL_TEST_NUMBER	0x020D	STRING	“”	Telephone number for the ERA test calls

EGTS_ECALL_ON	0x0210	BOOLEAN	1	1 – permits to use the ERA service
EGTS_ECALL_SIGNAL_INTERNAL	0x0211	BOOLEAN	1	1 – To define an accident event, a built-in acceleration measuring device is used
EGTS_ECALL_SIGNAL_EXTERNAL	0x0212	BOOLEAN	1	1 – To define an accident event, an external car sensor is used
EGTS_ECALL_SOS_BUTTON_TIME	0x0213	INT	500	Duration during which the Emergency Call button is to be pressed to initiate the Emergency Call irrespective of an ignition line condition, milliseconds
EGTS_ECALL_CRASH_THRESHOLD	0x0214	BINARY (X,Y,Z,TIME)	(SHORT, SHORT , SHORT , SHORT)	RA automatic identification sensor operation threshold with the ignition started up, (0.1 m/s^2, 0.1 m/s^2, 0.1 m/s^2, milliseconds)
EGTS_ECALL_CRASH_THRESHOLD_NO_IGN	0x0215	BINARY (X,Y,Z,TIME)	(SHORT , SHORT , SHORT , SHORT)	RA automatic identification sensor operation threshold with the ignition started up, (0.1 m/s^2, 0.1 m/s^2, 0.1 m/s^2, milliseconds)
EGTS_ECALL_MODE_PIN	0x0216	ENUM {NONE=0, PIN_1 =1, ... PIN_8=8}	0	Line signaling that a system is in the ERA NONE regime – no signaling of the PIN_X – PIN_X active line number regime when a system is in this regime
EGTS_ECALL_CCFT	0x0217	INT	60	Duration of a call completion signal (see the ERA specification), minutes
EGTS_ECALL_INVITATION_SIGNAL_DURATION	0x0218	INT	2	Duration of the INVITATION signal (see the ERA specification), секунды
EGTS_ECALL_SEND_MSG_PERIOD	0x0219	INT	2	SEND MSG message period (see the ERA specification), seconds
EGTS_ECALL_AL_ACK_PERIOD	0x021A	INT	2	AL-ACK period (see the ERA specification), seconds

EGTS_ECALL_MSD_MAX_TRANSMISSION_TIME	0x021B	INT	20	Maximum duration of the MSD transmission (see the ERA specification), seconds
EGTS_ECALL_NAD_MIN_REGISTRATION_PERIOD	0x021C	INT		Registration duration after completion of a call from the PSAP part for receipt of the consequent calls, hours
EGTS_ECALL_NAD_DEREGISTRATION_TIMER	0x021D	INT	12	Time upon expiration of which the GSM modem terminates the registration in a network, hours
EGTS_ECALL_DIAL_DURATION	0x021E	INT	0	Total duration of a redial at initiation of the Emergency Call, minutes
EGTS_ECALL_AUTO_DIAL_ATTEMPTS	0x021F	INT	3	Number of redial attempts at the Emergency Call automatically initiated. If the value is defined as 0, a terminal is not to redial at the Emergency Call automatically initiated
EGTS_ECALL_MANUAL_DIAL_ATTEMPTS	0x0220	INT	3	Number of redial attempts at the Emergency Call initiated by hand. If the value is defined as 0, the terminal is not to redial at the Emergency Call initiated by hand.
EGTS_ECALL_AUTO_CAN_CANCEL	0x0221	BOOLEAN	1	1 – Emergency Call automatically initiated is to be terminated at pressing the Service button
EGTS_ECALL_MANUAL_CAN_CANCEL	0x0222	BOOLEAN	1	1 – Emergency Call initiated by hand is to be terminated at pressing the Service button
EGTS_ECALL_SMS_FALLBACK_NUMBER	0x0223	STRING	“”	Number to which the a terminal send SMS with the Minimum Data Set at the request of a system operator
Acceleration profile record at RA				
EGTS_CRASH_RECORD_TIME	0x0251	INT/ 0..250	250	Time of record of information on the acceleration profile at RA, milliseconds
EGTS_CRASH_RECORD_RESOLUTION	0x0252	INT/1 …5	1	Duration of one count at the record of the acceleration profile at RA, milliseconds

EGTS_CRASH_PRE_RECORD_TIME	0x0253	INT/ 0…20000	20000	Time of record of information on the acceleration profile before occurrence of the RA event, milliseconds
EGTS_CRASH_PRE_RECORD_RESOLUTION	0x0254	INT/ 5…100	100	Duration of one count at the record of the acceleration profile before occurrence of the RA event, milliseconds
Car parameters				
EGTS_VEHICLE_VIN	0x0311	STRING	“”	VIN according to ISO 3779
EGTS_VEHICLE_TYPE	0x0312	INT	0	V type 1 – passenger’s (Class M1) 2 – bus (Class M2) 3 – bus (Class M3) 4 – light lorry (Class N1) 5 – heavy lorry (Class N2) 6 – heavy lorry (Class N3) 7 – motorcycle (Class L1e) 8 – motorcycle (Class L2e) 9 – motorcycle (Class L3e) 10 – motorcycle (Class L4e) 11 – motorcycle (Class L5e) 12 – motorcycle (Class L6e) 13 – motorcycle (Class L7e)
EGTS_VEHICLE_PROPULSION_STORAGE_TYPE	0x0313	INT	0	Energy carrier type If all bytes are 0, a type is not set Byte 7: not used Byte 6: not used Byte 5: 1 = hydrogen Byte 4: 1 = electricity (over 42 v and 100 Ah) Byte 3: 1 = liquid propane (LPG) Byte 2: 1 = condensed natural gas (CNG) Byte 1: 1 = diesel Byte 0: 1 = бензин

Devices set in the regular system configuration, in addition to the parameters described in [3], are to support the following parameters:

- EGTS_ECALL_BLACK_LIST
- EGTS_ECALL_TEST_NUMBER
- EGTS_ECALL_ON
- EGTS_ECALL_SIGNAL_INTERNAL
- EGTS_ECALL_SIGNAL_EXTERNAL
- EGTS_ECALL_SOS_BUTTON_TIME
- EGTS_ECALL_CCFT
- EGTS_ECALL_INVITATION_SIGNAL_DURATION
- EGTS_ECALL_SEND_MSG_PERIOD
- EGTS_ECALL_AL_ACK_PERIOD
- EGTS_ECALL_MSD_MAX_TRANSMISSION_TIME
- EGTS_ECALL_NAD_MIN_REGISTRATION_PERIOD
- EGTS_ECALL_NAD_DEREGISTRATION_TIMER
- EGTS_ECALL_DIAL_DURATION
- EGTS_ECALL_AUTO_DIAL_ATTEMPTS
- EGTS_ECALL_MANUAL_DIAL_ATTEMPTS
- EGTS_ECALL_AUTO_CAN_CANCEL
- 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_ECALL_BLACK_LIST
- EGTS_VEHICLE_VIN
- EGTS_VEHICLE_TYPE
- EGTS_VEHICLE_PROPULSION_STORAGE_TYPE