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**INDUSTRY STANDARD OF THE
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**Vehicle emergency call system based on public
telecommunication network - Technical requirements and test
method of the vehicle emergency rescue platform**

(English Translation)

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1 Scope

This standard specifies the technical requirements and test methods for the vehicle emergency rescue platform of the vehicle emergency call system based on the public telecommunications network, including platform location, platform function requirements, performance requirements, interface requirements, security requirements, disaster recovery requirements, test methods, etc.

This standard applies to the vehicle emergency rescue platform of the vehicle emergency call system based on the public telecommunications network (hereinafter referred to as the "platform").

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document;

for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

YD/T 3909-2021 Requirements and overall architecture of a vehicle emergency alarm system based on the public telecommunication network

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Vehicle emergency call

When the vehicle encounters an emergency, the emergency alarm call triggered by the vehicle terminal.

4 Abbreviations

CELLID. Cell identification

IDC. Internet data center

IMS. IP multimedia subsystem

5 Platform location

The vehicle emergency rescue platform refers to a platform provided by third parties such as car manufacturers or automotive remote service providers, which is responsible for the reception, processing, distribution, storage and other tasks of emergency alarms in the entire system.

6.1.1 Functional requirements for interaction between the platform and PSAP

The platform shall have the following functional requirements for alarming PSAP.

6.1.2 Requirements for the platform to receive vehicle alarms

The platform must have the following functional requirements for receiving vehicle alarms.

6.1.3.1 Transmission of data sets between the vehicle emergency rescue platform and PSAP

6.4 Security requirements

The platform shall meet the following security requirements.

7.1 Test system structure

The vehicle emergency rescue platform test method of the vehicle emergency call system shall be tested using the test system structure shown in Figure 2.

Figure 2 -- Test system structure

7.2 Test items

7.2.1.1.2

The platform receives alarm voice through Internet voice call

Test number.

Test item. The platform receives the alarm voice through the Internet voice call

Test purpose. Verify the platform's function of receiving the alarm voice through the Internet voice call

Pre-conditions.

7.2.1.2 The platform receiving rescue data set function

7.2.1.2.1

The platform receives the rescue data set through In-band transmission

7.2.1.3 Platform requests to retransmit the rescue data set

7.2.1.3.1

Platform requests to retransmit the rescue data set during a voice call

Test number.

Test item. Platform requests to retransmit the rescue data set during a voice call

Test purpose. Verify the function of the platform requesting to retransmit the rescue data set during a voice call

Pre-conditions.

7.2.1.3.2

Platform calls back to request the vehicle terminal to retransmit the rescue data set

Test number.

7.2.1.10 Three-party call function

Test number.

Test item. Three-party call function

Test purpose. Verify that the platform has the three-party call function

Pre-conditions.

7.2.4.2.2 Platform primary and standby data lines

Test number.

Test item. Platform primary and standby data line switching

Test purpose. Platform primary and standby data line switching function

Pre-conditions.

7.2.4.5 Platform primary and standby power supply system test

Test number.

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