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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 35484.3-2021

Earth-moving machinery and mobile road construction machinery - Worksite data exchange - Part 3: Telematics data

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foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents"

drafted:

This document is part 3 of GB/T 35484 "Earth-moving machinery and mobile road construction machinery site data exchange":

GB/T 35484 has released the following parts:

--- Part 1: System system;

--- Part 2: Data Dictionary;

--- Part 3: Telematics data:

This document is identical to ISO /T S15143-3:2020 "Earth-moving machinery and mobile road construction machinery site data exchange No: 3

Part: Telematics Data", the file type is adjusted from ISO technical specifications to my country's national standards:

Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents:

Introduction

This document provides a data schema that is intended to be used in a standard format from the device manufacturer or supplier directly to the device owner

Provide data for ease of use by device owners:

This document defines a set of web services that provide mobile devices and their associated telematics data information fleet: on the Internet

A known Uniform Resource Locator (URL), a fleet is usually used as a resource to provide

information: Each fleet has its own

URL, any number of clusters can be represented:

Clients can access these resources by sending HTTPS requests to servers at a given location: The server uses the device information document for

In response, this document defines the vocabulary for this document:

GB/T 35484 "Earth-moving machinery and mobile road construction machinery site data exchange" is a guide for earth-moving machinery and mobile road construction in my country:

The basic and universal standard for the exchange of construction site data in the field of road construction machinery is proposed to be composed of three parts:

--- Part 1: System architecture: The purpose is to define the work site data exchange service based on the systematic principles of machinery usage:

Definitions of terms related to local data exchange:

--- Part 2: Data dictionary: The purpose is to provide the identification of common data items on typical earthwork construction sites, and to give the

The basic specification of data exchange and its attribute data elements:

--- Part 3: Telematics data: The purpose is to provide end users with direct access to their specific fleet data, end users

or designated third-party application developers will be able to develop applications based on end-user reasonable use:

Earth-moving machinery and mobile road construction machinery site

Data exchange part 3: telematics data

1 Scope

This document specifies the provision of mobile machine state data from a telematics provider's server to a third-party client application over a network:

data communication scheme: Use of telematics data logging devices to collect data from mobile machines and store at telematics provider's services

on the device: This document describes the communication records used to request data from the server and contains specific information used to analyze machine performance and health:

The server response for the object:

This document applies to mobile earth-moving machinery as defined in ISO 6165 and

equipped with positioning and time instrumentation as defined in ISO 22242

mobile road construction machinery:

This document does not apply to in-vehicle data collection, in-vehicle communication protocols (e:g: CAN bus) or moving after data has been collected by the logger

Wireless transmission of machinery data to telematics provider servers (see Figure 1):

Figure 1 Conceptual analysis diagram of a hybrid queue telematics system within the scope of this document

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document:

ISO 3779 Road vehicle vehicle identification number (VIN) content and structure (Roadvehicles-Vehicleidentification

number(VIN)-Contentandstructure)

ISO 6405-1 Symbols for earth-moving machinery driver controls and other display devices - Part 1: General symbols (Earth-