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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 35381.5-2017

**Tractors and machinery for agriculture and forestry -- Serial
control and communications data network -- Part 5: Network
management**

农林拖拉机和机械 串行控制和通信数据网络 第5部分：网络管理

(English Translation)

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Foreword

GB/T 35381 "agriculture and forestry tractors and machinery serial control and communication data network" is divided into the following 14 parts.

- Part 1. General standards for data communications;
- Part 2. Physical layer;
- Part 3. Data link layer;
- Part 4. Network layer;
- Part 5. Network Management;
- Part 6. Virtual terminal;
- Part 7. Machine message application layer;
- Part 8. Powertrain News;
- Part 9. Tractor ECU;
- Part 10. Task controller and management information system data exchange;
- Part 11. Data yuan dictionary;
- Part 12. Diagnostic Services;
- Part 13. File Server;
- Part 14. Sequence control.

This section GB/T 35381 Part 5.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with ISO 11783-5.:2011 "Agriculture, Forestry and Tractors and Machinery Serial Control and Communication Data Network Part 5. Network Management. " the documents of our country that are in conformity with the corresponding international documents that are normative references in this part are as

follows.

--- GB/T 35381.1-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 1. Data communications Common Criteria (ISO 11783-1.:2007, IDT)

--- GB/T 35381.2-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 2. Physical layer (ISO 11783-2.:2012, IDT)

--- GB/T 35381.3-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 3. Data links Layer (ISO 11783-3.:2014, IDT)

--- GB/T 35381.4-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data network - Part 4. Network layer (ISO 11783-4.:2011, IDT)

--- GB/T 35381.7-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data network - Part 7. Machine tool news Application Layer (ISO 11783-7.:2015, IDT)

--- GB/T 35381.12-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data network - Part 12. Diagnostic services Service level (ISO 11783-12.:2014, IDT) this part is proposed by China Machinery Industry Federation.

This part of the National Agricultural Machinery Standardization Technical Committee (SAC/TC201) centralized.

This section drafted by. China Agricultural Mechanization Research Institute, China First Tractor Group Co., Ltd., Henan University of Science and Technology, Shandong Province Agriculture Mechanical Science Institute, Luoyang Xiyuan Vehicle and Power Testing Co., Ltd.

1 Scope

GB/T 35381 provides for agriculture and forestry tractors and suspension, semi-suspension, traction or self-propelled equipment, serial control and communication data network, its purpose is to enable the transmission of data between sensors, actuators, control elements, and message storage and display units within a suspended or semi-suspended tractor Standardization of methods and formats. This part of GB/T 35381 describes the electronic control unit (ECU) control function (CF) source (SA), the relevant address identifying equipment functions, and the management of network-related error detection and reporting. It also details initialization and Network with the ECU short-term power-down response procedures and minimum requirements.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 11783-1 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 1. General standards for data communications (Tractorsandmachineryforagricultureandforestry-Serialcontrolandcommunicationsatanet-work-Part 1. Generalstandardformobiledatacommunication) ISO 11783-2 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 2. Tractors and machineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 2.

Physicallayer

ISO 11783-3 Tractors and machinery for agriculture and forestry - Serial control and communication data network - Part 3. Data link layer andmachineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 3.

Datalinklayer)

ISO 11783-4 Agriculture, Forestry and Tractor and Machinery - Serial Control and Communication Data Network - Part 4. Tractorsand machineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 4.

Networklayer)

ISO 11783-7 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 7. Machine message application layer (Trac-torsandmachineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 7. Implementmessagesapplicationlayer) ISO 11783-12 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 12.

Diagnostic services

andmachineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part

12 Diagnosticsservices)

3 Terms and definitions ISO 11783-1 and defined by the following terms and definitions apply to this document.