

ISO 13400-2:2012-06 (E)

Road vehicles - Diagnostic communication over Internet Protocol (DoIP) - Part 2: Transport protocol and network layer services

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions, symbols and abbreviated terms	2
3.1	Terms and definitions	2
3.2	Symbols	3
3.3	Abbreviated terms	4
4	Conventions	5
5	Document overview	5
6	Basic requirements for implementation of internet protocols	7
6.1	General considerations	7
6.2	Network layer requirements	8
6.3	Transport Layer requirements	9
6.4	Application layer requirements -- Dynamic host control protocol (DHCP)	14
6.5	Application layer requirements -- Data transmission order	18
7	DoIP protocol -- Technical description	19
7.1	IP-based vehicle communication protocol	19
7.2	Socket handling	41
7.3	Timing and communication parameters	48
7.4	Logical addressing	49
7.5	Communication environments and recommended timings	50
8	Transport layer services	50
8.1	General information	50
8.2	Specification of DoIP layer service primitives	52
8.3	Service data unit specification	53
9	DoIP protocol usage	54
9.1	General information	54
9.2	Connection establishment and vehicle discovery	54
9.3	DoIP session	56
9.4	Vehicle network integration	58
10	DoIP entity functional requirements	64
11	Communication example message sequence charts	64
Bibliography		67