

# ISO 14229-5:2013-11 (E)

## Road vehicles - Unified diagnostic services (UDS) - Part 5: Unified diagnostic services on Internet Protocol implementation (UDSonIP)

---

| <b>Contents</b>    |                                                                                    | <b>Page</b> |
|--------------------|------------------------------------------------------------------------------------|-------------|
| Foreword .....     |                                                                                    | iv          |
| Introduction ..... |                                                                                    | v           |
| 1                  | Scope .....                                                                        | 1           |
| 2                  | Normative references .....                                                         | 1           |
| 3                  | Terms, definitions, and abbreviated terms .....                                    | 1           |
| 3.1                | Terms and definitions .....                                                        | 1           |
| 3.2                | Abbreviated terms .....                                                            | 2           |
| 4                  | Conventions .....                                                                  | 2           |
| 5                  | Document overview .....                                                            | 2           |
| 6                  | Unified diagnostic services implementation on Internet Protocol .....              | 4           |
| 6.1                | General .....                                                                      | 4           |
| 6.2                | UDS on IP services overview .....                                                  | 4           |
| 6.3                | DiagnosticSessionControl (0x10) service .....                                      | 5           |
| 6.4                | ECUReset (0x11) service .....                                                      | 6           |
| 6.5                | ReadDataByPeriodicIdentifier (0x2A) service DoIP implementation requirements ..... | 6           |
| 7                  | Application layer requirements .....                                               | 12          |
| 7.1                | Application layer services .....                                                   | 12          |
| 7.2                | Application layer protocol .....                                                   | 12          |
| 7.3                | Application layer timing .....                                                     | 12          |
| 8                  | Presentation layer requirements .....                                              | 12          |
| 9                  | Session layer requirements .....                                                   | 13          |
| 10                 | Transport/network layer interface adaptation .....                                 | 13          |
| 10.1               | General information .....                                                          | 13          |
| 10.2               | DoIP transport/network layer interface adaptation .....                            | 13          |
| 11                 | Data link layer diagnostic implementation requirements .....                       | 14          |
| Bibliography ..... |                                                                                    | 15          |