

ISO 20077-1:2017-12 (E)

Road Vehicles - Extended vehicle (ExVe) methodology - Part 1: General information

| Contents | | Page |
|---|--|-----------|
| Foreword | | iv |
| Introduction | | v |
| 1 Scope | | 1 |
| 2 Normative references | | 1 |
| 3 Terms and definitions | | 1 |
| 4 Abbreviated terms | | 5 |
| 5 The extended vehicle | | 5 |
| 5.1 Background | | 5 |
| 5.2 The “extended vehicle” concept | | 7 |
| 5.3 The design constraints applicable to an extended vehicle | | 10 |
| 5.4 The areas where the extended vehicles are expected to be used | | 10 |
| 6 ISO standards dealing with the extended vehicles | | 11 |
| 6.1 General | | 11 |
| 6.2 Generic ExVe standards: The ISO 20077 series | | 12 |
| 6.2.1 Content of the ISO 20077 series | | 12 |
| 6.2.2 ISO 20077-2: The ISO methodology standard for designing an extended vehicle | | 12 |
| 6.3 Standards related to ExVe interfaces | | 14 |
| 6.3.1 Content of the standards related to ExVe interfaces | | 14 |
| 6.3.2 Standards defining an ExVe interface in the case of web services | | 14 |
| 6.4 Standards related to ExVe use case clusters | | 15 |
| 6.4.1 Content of the standards related to ExVe use case clusters | | 15 |
| 6.4.2 Example of the ISO 20080 project on remote diagnostics | | 15 |
| 6.5 Practical usage of the extended vehicles standards | | 15 |
| 6.5.1 Example of designing an extended vehicle for remote diagnostics purposes | | 15 |
| 6.5.2 Generalization | | 17 |
| Annex A (informative) Diagnostic and prognostic processes — Practical cases: The malfunction of an air conditioning system | | 18 |
| Annex B (informative) Practical usage of the extended vehicles standards (Generalization) | | 21 |
| Bibliography | | 23 |