

# ISO 20080:2019 (E)

## Road vehicles — Information for remote diagnostic support — General requirements, definitions and use cases

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
3.1	Actors
4	Symbols and abbreviated terms
5	Overview and general requirements for the remote diagnostic process and support
5.1	Remote diagnostic application and ExVe interaction
5.2	Content and use case scenarios
5.2.1	Capability to perform use cases
5.2.2	Use case scenarios
5.3	Basic principles
5.4	Access to information for remote diagnostic support
5.5	Error conditions and handling
5.5.1	General
5.5.2	Communication interface specific errors
5.5.3	General errors for use cases
5.5.4	Specific errors for use cases
5.6	Conditions for conformance with this document
6	Use cases for remote diagnostic support
6.1	General
6.2	Use Case 01 — Use case discovery
6.3	Use Case 02 — Identify ECUs installed in the vehicle
6.4	Use Case 03 — Read Diagnostic Trouble Codes (DTCs)
6.5	Use Case 04 — Read readiness codes
6.6	Use Case 05 — Read DTC snapshot data
6.7	Use Case 06 — Read selected diagnostic parametric dynamic data
6.8	Use Case 07 — Read malfunction indicator status
6.9	Use Case 08 — Clear DTCs
6.10	Use Case 09 — Adjust the setting of a selected system
6.11	Use Case 10 — Activation of actuator(s)
6.12	Use Case 11 — Activate a self-test routine
Annex A	(informative) Implementation based on ISO 20078 — Road Vehicles — Extended Vehicle (ExVe) — Web Services
A.1	Introduction
A.1.1	General
A.1.2	Security
A.1.3	Error codes
A.1.3.1	ISO 20078
A.1.3.2	General error conditions
A.1.3.3	Use case specific error conditions
A.2	Resources
A.3	REST API information model
A.4	REST APIs

- A.4.1**      **Use case 01 – resourceReadouts**
- A.4.2**      **Use case 02 – ecuReadouts**
- A.4.3**      **Use case 03 – dtcReadouts**
- A.4.4**      **Use case 04 – readinessCodeReadouts**
- A.4.5**      **Use case 05 – dtcSnapshotReadouts**
- A.4.6**      **Use case 06 – parameterReadouts**
- A.4.7**      **Use case 07 – malfunctionIndicatorReadouts**
- A.4.8**      **Use case 08 – clearDtcJobs**
- A.5**            **JSON schemas**
- A.5.1**        **General**
- A.5.1.1**     **Introduction**
- A.5.1.2**     **Extensible**
- A.5.1.3**     **Asynchronous Interaction Pattern**
- A.5.2**        **Use case 01 – resourceReadouts**
- A.5.3**        **Use case 02 - ecuReadout**
- A.5.4**        **Use case 03 - dtcReadout**
- A.5.5**        **Use case 04 - readinessCodeReadout**
- A.5.6**        **Use case 05 - dtcSnapshotReadouts**
- A.5.7**        **Use case 06 - parameterReadouts**
- A.5.8**        **Use case 07 - malfunctionIndicatorReadout**
- A.5.9**        **Use case 08 - clearDtcJobs**

**Page count: 61**