



INTERNATIONAL STANDARD ISO 11992-4:2005
TECHNICAL CORRIGENDUM 1

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Road vehicles — Interchange of digital information on electrical connections between towing and towed vehicles —

Part 4:
Diagnostics

TECHNICAL CORRIGENDUM 1

Véhicules routiers — Échange d'informations numériques sur les connexions électriques entre véhicules tracteurs et véhicules tractés —

Partie 4: Diagnostics

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 11992-4:2005 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

The diagram illustrates the state machine transitions for the AS-PS-PCS-ES protocol. The states are represented by boxes: AS, PS, PCS, and ES. Transitions are represented by arrows, many of which are labeled with event names and associated time constraints.

- AS to PS:** Labeled with T_{as1} and $\langle a \rangle.ind$.
- PS to AS:** Labeled with $AST1max$ and $\langle a \rangle.res-$.
- PS to PS:** Labeled with T_{ws2} and $\langle b \rangle.ind$ / $\langle b \rangle.res-$.
- PS to PCS:** Labeled with T_{ws4} and $\langle a \rangle.res+$.
- PS to ES:** Labeled with T_{es1} and $Error.ind$.
- PCS to PS:** Labeled with $T_{ws3.1}$ and $\langle a \rangle.res-$.
- PCS to PCS:** Labeled with $T_{ws3.2}$.

There are also feedback loops from the output of the PCS and ES states back to the input of the AS state.

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The diagram illustrates the interaction between a Client and a Server across three layers: Application Layer, Layer 1 to 6, and Application Layer. The diagram shows the flow of messages and the corresponding actions (ACT1, ACT2, ACT3.1) and time intervals (AST1, AST2).

Client Side:

- Application Layer:**
 - Client sends `<Service>.req` to Layer 1 to 6.
 - Client receives `<Service>.cnf` from Layer 1 to 6.
 - Client sends `<Service>.cnf` to Layer 1 to 6.
 - Client sends `<Service>.req` to Layer 1 to 6.
- Layer 1 to 6:**
 - Request-Indication A_PDU is received from the Application Layer.
 - Response-Confirmation A_PDU is received from the Application Layer.
 - FF.ind is received from the Application Layer.

Server Side:

- Application Layer:**
 - Server receives `<Service>.ind` from Layer 1 to 6.
 - Server sends `<Service>.rsp` to Layer 1 to 6.
 - Server receives `<Service>.rsp` from Layer 1 to 6.
 - Server sends `<Service>.ind` to Layer 1 to 6.
- Layer 1 to 6:**
 - Request-Indication A_PDU is received from the Application Layer.
 - Response-Confirmation A_PDU is received from the Application Layer.
 - FF.ind is received from the Application Layer.

Actions and Time Intervals:

- ACT1:** Action performed in the Application Layer of the Client.
- ACT2:** Action performed in the Application Layer of the Client.
- ACT3.1:** Action performed in the Application Layer of the Client.
- AST1:** Time interval in the Application Layer of the Server.
- AST2:** Time interval in the Application Layer of the Server.

Figure 5 — A_PDU timing diagram confirmed services — physical target address