

Contents

	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	2
4.1 Symbols	2
4.2 Abbreviated terms	2
5 Conventions	2
6 Session layer services	2
6.1 Service interface	2
6.2 Service interface parameters	3
6.3 Service interface primitives	3
7 Service interface (SI) definition from application layer to session layer	4
7.1 SI — S_Data.req, S_Data.ind, and S_Data.conf service interface	4
7.2 SI — S_Data.req, S_Data.ind, and S_Data.conf service interface parameter mapping	5
7.3 SI — S_PDU mapping onto T_PDU and vice versa for message transmission	5
7.4 SI — S_Data.req	6
7.5 SI — S_Data.ind	7
7.6 SI — S_Data.conf	7
8 Service primitive parameters (SPP)	7
8.1 SPP – General	7
8.2 SPP – Data type definitions	7
8.3 SPP – S_Mtype, session layer message type	7
8.4 SPP – S_TAtype, session layer target address type	8
8.5 SPP – S_TA, session layer target address	8
8.6 SPP – S_SA, session layer source address	8
8.7 SPP – S_AE, session layer address extension	8
8.8 SPP – S_Length, session layer length of S_Data	8
8.9 SPP – S_Data, session layer data of PDU	9
8.10 SPP – S_Result, session layer result	9
9 Timing parameter definition	9
9.1 General application timing considerations	9
9.1.1 Server	9
9.1.2 Client	10
9.2 Application timing parameter definitions – defaultSession	11
9.3 Example for t_{P4_Server} without enhanced response timing	16
9.4 Example for t_{P4_Server} with enhanced response timing	17
9.5 Session timing parameter definitions for the non-default session	19
9.6 Client and server timer resource requirements	20
9.7 Error handling	21
10 Timing handling during communication	23
10.1 Physical communication	23
10.1.1 Physical communication during defaultSession – without SOM.ind	23
10.1.2 Physical communication during defaultSession – with SOM.ind	24
10.1.3 Physical communication during defaultSession with enhanced response timing	24

10.2	10.1.4 Physical communication during a non-default session.....	26
	Functional communication.....	31
	10.2.1 Functional communication during defaultSession – without SOM.ind	31
	10.2.2 Functional communication during defaultSession – with SOM.ind.....	32
	10.2.3 Functional communication during defaultSession with enhanced response timing – with SOM.ind.....	33
	10.2.4 Functional communication during non-default session – with SOM.ind	36
10.3	Minimum time between client request messages.....	40
	Annex A (normative) T_PDU interface.....	48
	Annex B (informative) Vehicle diagnostic OSI layer architecture examples.....	49
	Bibliography.....	53