

# T10 02 – 203r0 SAS Request-Conformation List

## R-REQUEST, C-CONFORMATION, P-PARAMETER, RC-REASON CODE

State	Type	Request/Conformation	Reason
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### SAS Link Layer to Port Layer Communication

SL0;	R,P	Open Connection	Port layer request link layer to open a connection
SL1;Arb Sel	R,P	Stop Arb	Port layer request link layer to terminate arbitration
SL1;SL0	C,P;RC C,P;RC C,P;RC C,P;RC C,P;RC	Arb Lost; OPEN FAILED-WRONG DESTINATION Arb Lost; OPEN FAILED-INVALID LINK RATE Arb Lost; OPEN FAILED-INVALID PROTOCOL TYPE) Arb Lost; OPEN FAILED-RETRY Arb Lost; OPEN FAILED-PATHWAY BLOCKED	IF OPEN_REJECT(WRONG DESTINATION) IF OPEN_REJECT(INVALID LINK RATE) IF OPEN_REJECT(INVALID PROTOCOL TYPE) IF OPEN_REJECT(RETRY) IF OPEN_REJECT(PATHWAY BLOCKED)
	C,P;RC C,P;RC	Arb Lost; OPEN FAILED-NO DESTINATION Arb Lost; OPEN FAILED-BAD DESTINATION	IF OPEN_REJECT(NO DESTINATION) IF OPEN_REJECT(BAD DESTINATION)
SL1;SL4	C,P;RC C,P;RC C,P;RC	Connection Opened; SSP LINK OPENED BY ARB SEL Connection Opened; STP LINK OPENED BY ARB SEL Connection Opened; SMP LINK OPENED BY ARB SEL	SSP LINK OPENED BY TX STP LINK OPENED BY TX SMP LINK OPENED BY TX
SL1;SL6	C,P;RC C,P;RC	Arb Lost; ARBITRATION LOST-PORT LAYER REQUEST Arb Lost; ARBITRATION LOST-OPEN TIME-OUT OCCURED	Arbitration terminated due to port layer Stop Arb request Arbitration terminated due to Open Timeout expired
SL1;SL7	C,P;RC	Arb Lost; ARBITRATION LOST-BREAK RECEIVED	BREAK received during arbitration
SL2;Sel	R,P R,P	Reject Opens Accept Opens	Port layer request link layer to reject opens Port layer request link layer to accept opens
SL2;SL0	C,P;RC C,P;RC C,P;RC C,P;RC	Connection Rejected; CONNECTION REJECTED-RETRY Connection Rejected; CONNECTION REJECTED-INVALID PROTOCOL TYPE Connection Rejected; CONNECTION REJECTED-WRONG DESTINATION Connection Rejected; CONNECTION REJECTED-INVALID LINK RATE	Port layer request link layer to reject opens & open raved Protocol in open frame not supported destination port in open frame not this SAS port Link rate in open frame not supported
SL2;SL4	C,P;RC:O) C,P;RC:O) C,P;RC:O)	Connection Opened; SSP LINK OPENED BY SELECTED Connection Opened; STP LINK OPENED BY SELECTED Connection Opened; SMP LINK OPENED BY SELECTED	SSP LINK OPENED by the Receive path STP LINK OPENED by the Receive path SMP LINK OPENED by the Receive path
SL2;SL7	C,P;RC	BREAK Rev; CONNECTION CLOSED-BREAK RECEIVED	A BREAK was received while connected
SL4: Connected			
SL4;SL5	C,P	CLOSE Rev	A CLOSE was received while connected
SL5;D Wait			
SL5	C,P	CLOSE Rev	A CLOSE has been received
SL5	C,P	CLOSE Txed	A CLOSE has been transmitted
SL5;SL0	C,P;RC	Connection Closed; CONNECTION CLOSED-NO ERRORS OCCURRED	CLOSE transmitted and received
SL5;SL6	C,P;RC	Close Time-out; CONNECTION CLOSED-CLOSE TIME-OUT	CLOSE timeout exceeded after CLOSE was transmitted
SL5;SL7	C,P;RC	BREAK Rev; CONNECTION CLOSED-BREAK RECEIVED	A BREAK was received while trying to close
SL6;Bk Wait			
SL6;SL0	C,P;RC	Link Broke; CONNECTION CLOSED-LINK BROKE	BREAK timeout exceeded after a BREAK was transmitted

### SSP Link Layer to Port and Transport Layer Communication

SSP_R1; Rcv	C,P;RC	Destination ACK/NAK time-out; DONE(ACK/NAK timeout) Destination credit time-out; DONE(credit time-out) DONE Rev	ACK/NAK timeout occurred after last transmit Credit unavailable for 1 ms after last tx
SSP_RF1;	C,P; C,P	Protocol Violation; Illegal Frame;	discard frame-4 conditions but no reason codes discard frame-consecutive SOF without intervening EOF
SSP_RF2;	C,P;RC C,P;RC C,P;RC	Frame Received; number ACK/NAK's txed equal to EOFs received Frame Received; number ACK/NAK's txed not equal to EOFs received Failed Frame: frame error(i.e., CRC error)	frame successfully received frame successfully received frame unsuccessfully received
SSP_TF1	R,P;RC R,P, RC R,P	Tx Frame; Interlocked Frame Tx Frame; non-Interlocked Frame Close Connection;	Transmit an Interlocked frame Transmit a Non-Interlocked frame
SSP_TF2	C,P	ACK/NAK time-out:	An ACK or a Nak was not rcv within 1 ms from last fm tx
SSP_TF3	C,P	Credit Timeout:	Credit Timeout since last Tx
SSP_TF5	C,P	DONE Transmitted;	a Done was transmitted to close the transmit state

