Chariot v2.3.0 Compliance

Eclipse™ Sparkplug™ TCK Results summary Date: 08/02/2023 11:36:36

Sparkplug Profile: Broker

Aware Group

Assertion count: 7 Number passed: 0 Number failed: 0 Percent passed: 0%

Assertion ID	Assertion Type	Test	Time	Result
tck-id-conformance-mqtt-aware-basic	MUST			
tck-id-conformance-mqtt-aware-dbirth-mqtt-retain	MUST			
tck-id-conformance-mqtt-aware-dbirth-mqtt-topic	MUST			
tck-id-conformance-mqtt-aware-nbirth-mqtt-retain	MUST			
tck-id-conformance-mqtt-aware-nbirth-mqtt-topic	MUST			
tck-id-conformance-mqtt-aware-ndeath-timestamp	MUST			
tck-id-conformance-mqtt-aware-store	MUST			

Main Group

Assertion count: 4 Number passed: 4 Number failed: 0 Percent passed: 100%

Optional assertion count: 0 Optional number passed: 0 Percent passed without optional: 100%

Assertion ID	Assertion Type	Test	Time	Result
tck-id-conformance-mqtt-qos0	MUST	SparkplugCompliant	2023-02-07 19:05:52.485	PASS
tck-id-conformance-mqtt-qos1	MUST	SparkplugCompliant	2023-02-07 19:05:52.485	PASS
tck-id-conformance-mqtt-retained	MUST	SparkplugCompliant	2023-02-07 19:05:52.485	PASS
tck-id-conformance-mqtt-will-messages	MUST	SparkplugCompliant	2023-02-07 19:05:52.485	PASS

Sparkplug Profile: Host

Message Reordering Group

Assertion count: 4 Number passed: 0 Number failed: 0 Percent passed: 0%

Assertion ID	Assertion Type	Test	Time	Result
tck-id-operational-behavior-host-reordering-param	SHOULD			
tck-id-operational-behavior-host-reordering-rebirth	MUST			
tck-id-operational-behavior-host-reordering-start	MUST			
tck-id-operational-behavior-host-reordering-success	MUST			

Main Group

Assertion count: 95 Number passed: 0 Number failed: 0 Percent passed: 0%

Optional assertion count: 5 Optional number passed: 0 Percent passed without optional: 0%

Assertion ID	Assertion Type	Test	Time	Result
tck-id-case-sensitivity-sparkplug-ids	SHOULD optional			
tck-id-components-ph-state	MUST			
tck-id-conformance-primary-host	MUST			
tck-id-host-topic-phid-birth-message	MUST			
tck-id-host-topic-phid-birth-payload	MUST			
tck-id-host-topic-phid-birth-payload-timestamp	MUST			
tck-id-host-topic-phid-birth-qos	MUST			
tck-id-host-topic-phid-birth-required	MUST			
tck-id-host-topic-phid-birth-retain	MUST			
tck-id-host-topic-phid-birth-sub-required	MUST			
tck-id-host-topic-phid-birth-topic	MUST			
tck-id-host-topic-phid-death-payload	MUST			
tck-id-host-topic-phid-death-payload-timestamp-connect	MUST			
tck-id-host-topic-phid-death-payload-timestamp-disconnect-clean	MUST			

tck-id-host-topic-phid-death-payload-timestamp-disconnect-with-no-disconnect-packet	MUST		
tck-id-host-topic-phid-death-qos	MUST		
tck-id-host-topic-phid-death-required	MUST		
tck-id-host-topic-phid-death-retain	MUST		
tck-id-host-topic-phid-death-topic	MUST		
tck-id-intro-group-id-chars	MUST		
tck-id-intro-group-id-string	MUST		
tck-id-intro-sparkplug-host-state	MUST		
tck-id-message-flow-edge-node-birth-publish-will-message-topic	MUST		
tck-id-message-flow-hid-sparkplug-state-message-delivered	MUST		
tck-id-message-flow-phid-sparkplug-clean-session-311	MUST		
tck-id-message-flow-phid-sparkplug-clean-session-50	MUST		
	MUST		
tck-id-message-flow-phid-sparkplug-state-publish			
tck-id-message-flow-phid-sparkplug-state-publish-payload	MUST		
tck-id-message-flow-phid-sparkplug-state-publish-payload-timestamp	MUST		
tck-id-message-flow-phid-sparkplug-subscription	MUST		
tck-id-operational-behavior-data-commands-dcmd-metric-name	SHOULD optional		
tck-id-operational-behavior-data-commands-dcmd-metric-value	MUST		
tck-id-operational-behavior-data-commands-dcmd-verb	MUST		
tck-id-operational-behavior-data-commands-ncmd-metric-name	SHOULD optional		\perp
tck-id-operational-behavior-data-commands-ncmd-metric-value	MUST		
tck-id-operational-behavior-data-commands-ncmd-rebirth-name	MUST		
tck-id-operational-behavior-data-commands-ncmd-rebirth-value	MUST		
tck-id-operational-behavior-data-commands-ncmd-rebirth-verb	MUST		
tck-id-operational-behavior-data-commands-ncmd-verb	MUST		
tck-id-operational-behavior-edge-node-termination-host-action-ddeath-devices-offline	MUST		
tck-id-operational-behavior-edge-node-termination-host-action-ddeath-devices-tags-stale	MUST		
tck-id-operational-behavior-edge-node-termination-host-action-ndeath-devices-offline	MUST		
tck-id-operational-behavior-edge-node-termination-host-action-ndeath-devices-tags-stale	MUST		
tck-id-operational-behavior-edge-node-termination-host-action-ndeath-node-offline	MUST		
·	MUST		
tck-id-operational-behavior-edge-node-termination-host-action-ndeath-node-tags-stale	MUST	_	-
tck-id-operational-behavior-host-application-connect-birth			
tck-id-operational-behavior-host-application-connect-birth-payload	MUST		
tck-id-operational-behavior-host-application-connect-birth-qos	MUST		
tck-id-operational-behavior-host-application-connect-birth-retained	MUST		
tck-id-operational-behavior-host-application-connect-birth-topic	MUST		
tck-id-operational-behavior-host-application-connect-will	MUST		
tck-id-operational-behavior-host-application-connect-will-payload	MUST		
tck-id-operational-behavior-host-application-connect-will-qos	MUST		
tck-id-operational-behavior-host-application-connect-will-retained	MUST		
tck-id-operational-behavior-host-application-connect-will-topic	MUST		
tck-id-operational-behavior-host-application-death-payload	MUST		
tck-id-operational-behavior-host-application-death-qos	MUST		
tck-id-operational-behavior-host-application-death-retained	MUST		
tck-id-operational-behavior-host-application-death-topic	MUST		
tck-id-operational-behavior-host-application-disconnect-intentional	MAY optional		
tck-id-operational-behavior-host-application-host-id	MUST		
tck-id-operational-behavior-host-application-multi-server-timestamp	MUST		
tck-id-operational-behavior-host-application-termination	MUST		
tck-id-operational-behavior-primary-application-state-with-multiple-servers-state	MUST		
tck-id-operational-behavior-primary-application-state-with-multiple-servers-state-subs	MUST		
tck-id-payloads-dcmd-qos	MUST		_
tck-id-payloads-dcmd-retain	MUST		
tck-id-payloads-dcmd-seq	MUST	\vdash	\perp
tck-id-payloads-dcmd-timestamp	MUST		\perp
tck-id-payloads-name-cmd-requirement	MAY optional		
tck-id-payloads-ncmd-qos	MUST		
tck-id-payloads-ncmd-retain	MUST		
tck-id-payloads-ncmd-seq	MUST		
tck-id-payloads-ncmd-timestamp	MUST		
tck-id-payloads-sequence-num-incrementing	MUST		
tck-id-payloads-state-birth	MUST		
tck-id-payloads-state-birth-payload	MUST		

tck-id-payloads-state-subscribe	MUST	\neg
tck-id-payloads-state-will-message	MUST	
tck-id-payloads-state-will-message-payload	MUST	
tck-id-payloads-state-will-message-qos	MUST	
tck-id-payloads-state-will-message-retain	MUST	
tck-id-payloads-timestamp-in-utc	MUST	
tck-id-principles-birth-certificates-order	MUST	
tck-id-topics-dcmd-mqtt	MUST	
tck-id-topics-dcmd-payload	MUST	
tck-id-topics-dcmd-timestamp	MUST	
tck-id-topics-dcmd-topic	MUST	
tck-id-topics-ncmd-mqtt	MUST	
tck-id-topics-ncmd-payload	MUST	
tck-id-topics-ncmd-timestamp	MUST	
tck-id-topics-ncmd-topic	MUST	
tck-id-topic-structure	MUST	
tck-id-topic-structure-namespace-a	MUST	
tck-id-topic-structure-namespace-valid-group-id	MUST	

Sparkplug Profile: Edge

Aliases Group

Assertion count: 4 Number passed: 0 Number failed: 0 Percent passed: 0%

Assertion ID	Assertion Type	Test	Time	Result
tck-id-operational-behavior-data-commands-rebirth-name-aliases	MUST			
tck-id-payloads-alias-birth-requirement	MUST			
tck-id-payloads-alias-data-cmd-requirement	MUST			
tck-id-payloads-alias-uniqueness	MUST			

Datasets Group

Assertion count: 7 Number passed: 0 Number failed: 0 Percent passed: 0%

Assertion ID	Assertion Type	Test	Time	Result
tck-id-payloads-dataset-column-num-headers	MUST			
tck-id-payloads-dataset-column-size	MUST			
tck-id-payloads-dataset-parameter-type-req	MUST			
tck-id-payloads-dataset-types-def	MUST			
tck-id-payloads-dataset-types-num	MUST			
tck-id-payloads-dataset-types-type	MUST			
tck-id-payloads-dataset-types-value	MUST			

Properties Group

Assertion count: 7 Number passed: 0 Number failed: 0 Percent passed: 0%

Assertion ID	Assertion Type	Test	Time	Result
tck-id-payloads-metric-propertyvalue-type-req	MUST			
tck-id-payloads-metric-propertyvalue-type-type	MUST			
tck-id-payloads-metric-propertyvalue-type-value	MUST			
tck-id-payloads-propertyset-keys-array-size	MUST			
tck-id-payloads-propertyset-quality-value-type	MUST			
tck-id-payloads-propertyset-quality-value-value	MUST			
tck-id-payloads-propertyset-values-array-size	MUST			

Templates Group

Assertion count: 27 Number passed: 0 Number failed: 0 Percent passed: 0%

Assertion ID	Assertion Type	Test	Time	Result
tck-id-payloads-template-dataset-value	MUST			
tck-id-payloads-template-definition-is-definition	MUST			
tck-id-payloads-template-definition-members	MUST			
tck-id-payloads-template-definition-nbirth	MUST			
tck-id-payloads-template-definition-nbirth-only	MUST			
tck-id-payloads-template-definition-parameters	MUST			

tck-id-payloads-template-definition-parameters-default	MAY	
tck-id-payloads-template-definition-ref	MUST	
tck-id-payloads-template-instance-is-definition	MUST	
tck-id-payloads-template-instance-members	MUST	
tck-id-payloads-template-instance-members-birth	MUST	
tck-id-payloads-template-instance-members-data	MAY	
tck-id-payloads-template-instance-parameters	MAY	
tck-id-payloads-template-instance-ref	MUST	
tck-id-payloads-template-is-definition	MUST	
tck-id-payloads-template-is-definition-definition	MUST	
tck-id-payloads-template-is-definition-instance	MUST	
tck-id-payloads-template-parameter-name-required	MUST	
tck-id-payloads-template-parameter-name-type	MUST	
tck-id-payloads-template-parameter-type-req	MUST	
tck-id-payloads-template-parameter-type-value	MUST	
tck-id-payloads-template-parameter-value	MUST	
tck-id-payloads-template-parameter-value-type	MUST	
tck-id-payloads-template-ref-definition	MUST	
tck-id-payloads-template-ref-instance	MUST	
tck-id-payloads-template-version	MUST	
tck-id-topics-nbirth-templates	MUST	

Main Group

Assertion count: 155 Number passed: 0 Number failed: 0 Percent passed: 0%

Optional assertion count: 9 Optional number passed: 0 Percent passed without optional: 0%

Assertion ID	Assertion Type	Test	Time	Result
tck-id-case-sensitivity-metric-names	SHOULD optional			
tck-id-case-sensitivity-sparkplug-ids	SHOULD optional			
tck-id-intro-device-id-chars	MUST			
tck-id-intro-device-id-string	MUST			
tck-id-intro-edge-node-id-chars	MUST			
tck-id-intro-edge-node-id-string	MUST			
tck-id-intro-edge-node-id-uniqueness	MUST			
tck-id-intro-group-id-chars	MUST			
tck-id-intro-group-id-string	MUST			
tck-id-message-flow-device-birth-publish-dbirth-match-edge-node-topic	MUST			
tck-id-message-flow-device-birth-publish-dbirth-payload	MUST			
tck-id-message-flow-device-birth-publish-dbirth-payload-seq	MUST			
tck-id-message-flow-device-birth-publish-dbirth-qos	MUST			
tck-id-message-flow-device-birth-publish-dbirth-retained	MUST			
tck-id-message-flow-device-birth-publish-dbirth-topic	MUST			
tck-id-message-flow-device-birth-publish-nbirth-wait	MUST			
tck-id-message-flow-device-dcmd-subscribe	MUST			
tck-id-message-flow-edge-node-birth-publish-connect	MUST			
tck-id-message-flow-edge-node-birth-publish-nbirth-payload	MUST			
tck-id-message-flow-edge-node-birth-publish-nbirth-payload-bdseq	MUST			
tck-id-message-flow-edge-node-birth-publish-nbirth-payload-seq	MUST			
tck-id-message-flow-edge-node-birth-publish-nbirth-qos	MUST			
tck-id-message-flow-edge-node-birth-publish-nbirth-retained	MUST			
tck-id-message-flow-edge-node-birth-publish-nbirth-topic	MUST			
tck-id-message-flow-edge-node-birth-publish-phid-offline	MUST			
tck-id-message-flow-edge-node-birth-publish-phid-wait	MUST			
tck-id-message-flow-edge-node-birth-publish-phid-wait-id	MUST			
tck-id-message-flow-edge-node-birth-publish-phid-wait-online	MUST			
tck-id-message-flow-edge-node-birth-publish-phid-wait-timestamp	MUST			
tck-id-message-flow-edge-node-birth-publish-will-message	MUST			
tck-id-message-flow-edge-node-birth-publish-will-message-payload	MUST			
tck-id-message-flow-edge-node-birth-publish-will-message-payload-bdseq	MUST			
tck-id-message-flow-edge-node-birth-publish-will-message-qos	MUST			
tck-id-message-flow-edge-node-birth-publish-will-message-topic	MUST			
tck-id-message-flow-edge-node-birth-publish-will-message-will-retained	MUST			
tck-id-message-flow-edge-node-ncmd-subscribe	MUST			

tck-id-operational-behavior-data-commands-rebirth-action-1	MUST		
tck-id-operational-behavior-data-commands-rebirth-action-2	MUST		
tck-id-operational-behavior-data-commands-rebirth-action-3	MUST		
tck-id-operational-behavior-data-commands-rebirth-datatype	MUST		
tck-id-operational-behavior-data-commands-rebirth-name	MUST		
tck-id-operational-behavior-data-commands-rebirth-value	MUST		
tck-id-operational-behavior-data-publish-dbirth	MUST		
tck-id-operational-behavior-data-publish-dbirth-change	SHOULD optional		
tck-id-operational-behavior-data-publish-dbirth-order	MUST		
tck-id-operational-behavior-data-publish-dbirth-values	MUST		
tck-id-operational-behavior-data-publish-nbirth	MUST		
tck-id-operational-behavior-data-publish-nbirth-change	SHOULD optional		
tck-id-operational-behavior-data-publish-nbirth-order	MUST		
tck-id-operational-behavior-data-publish-nbirth-values	MUST		
tck-id-operational-behavior-device-ddeath	MUST		
tck-id-operational-behavior-edge-node-birth-sequence-wait	MUST		
tck-id-operational-behavior-edge-node-intentional-disconnect-ndeath	MUST		
tck-id-operational-behavior-edge-node-intentional-disconnect-packet	MAY optional		
tck-id-operational-behavior-edge-node-termination-host-offline	MUST		
tck-id-operational-behavior-edge-node-termination-host-offline-reconnect	MUST		ļ
tck-id-operational-behavior-edge-node-termination-host-offline-timestamp	MUST		ļ
tck-id-operational-behavior-primary-application-state-with-multiple-servers-single-server			ļ
tck-id-operational-behavior-primary-application-state-with-multiple-servers-state-subs	MUST		
tck-id-operational-behavior-primary-application-state-with-multiple-servers-walk	MUST		
tck-id-payloads-dbirth-order	MUST		
tck-id-payloads-dbirth-qos	MUST		
tck-id-payloads-dbirth-retain	MUST		
tck-id-payloads-dbirth-seq	MUST		
tck-id-payloads-dbirth-seq-inc	MUST		
tck-id-payloads-dbirth-timestamp	MUST		
tck-id-payloads-ddata-order	MUST		
tck-id-payloads-ddata-gos	MUST		
tck-id-payloads-ddata-retain	MUST		
tck-id-payloads-ddata-seq	MUST		
tck-id-payloads-ddata-seq-inc	MUST		
tck-id-payloads-ddata-timestamp	MUST		
tck-id-payloads-ddeath-seq	MUST		
tck-id-payloads-ddeath-seq-inc	MUST		
	MUST		
tck-id-payloads-ddeath-seq-number tck-id-payloads-ddeath-timestamp			
,	MUST		
tck-id-payloads-metric-datatype-not-req	SHOULD optional		
tck-id-payloads-metric-datatype-req	MUST		
tck-id-payloads-metric-datatype-value	MUST		
tck-id-payloads-metric-datatype-value-type	MUST		
tck-id-payloads-metric-timestamp-in-utc	MUST		
tck-id-payloads-name-birth-data-requirement	MUST		
tck-id-payloads-name-requirement	MUST		
tck-id-payloads-nbirth-bdseq	MUST		
tck-id-payloads-nbirth-bdseq-repeat	MUST		
tck-id-payloads-nbirth-edge-node-descriptor	MUST		
tck-id-payloads-nbirth-qos	MUST		
tck-id-payloads-nbirth-rebirth-req	MUST		
tck-id-payloads-nbirth-retain	MUST		
tck-id-payloads-nbirth-seq	MUST		
tck-id-payloads-nbirth-timestamp	MUST		
tck-id-payloads-ndata-order	MUST		
tck-id-payloads-ndata-order	MUST		
tck-id-payloads-ndata-retain	MUST	 	
tck-id-payloads-ndata-seq	MUST		
tck-id-payloads-ndata-seq-inc	MUST		<u> </u>
tck-id-payloads-ndata-timestamp	MUST		
	MUIOT		1
tck-id-payloads-ndeath-bdseq tck-id-payloads-ndeath-seq	MUST MUST		

tek-id-psyloads-ndeath-will-message-publisher tek-id-psyloads-ndeath-will-message-publisher tek-id-psyloads-ndeath-will-message-publisher disconnect-mqti311 MUST tek-id-psyloads-ndeath-will-message-publisher-disconnect-mqti50 tek-id-psyloads-ndeath-will-message-publisher-disconnect-mqti50 tek-id-psyloads-ndeath-will-message-publisher-disconnect-mqti50 tek-id-psyloads-ndeath-will-message-publisher-disconnect-mqti50 tek-id-psyloads-ndeath-will-message-publisher-disconnect-mqti50 tek-id-psyloads-sequence-num-sequence-mum-seque		L MUOT		
tek-id-psyloads-ndeath-will-message-publisher-disconnect-mqtt50 tek-id-psyloads-ndeath-will-message-publisher-disconnect-mqtt50 tek-id-psyloads-ndeath-will-message-publisher-disconnect-mqtt50 tek-id-psyloads-ndeath-will-message-qos MUST tek-id-psyloads-ndeath-will-message-qos MUST tek-id-psyloads-ndeath-will-message-qos MUST tek-id-psyloads-sequence-num-incrementing MUST tek-id-psyloads-sequence-num-incrementing MUST tek-id-psyloads-sequence-num-incrementing MUST tek-id-psyloads-sequence-num-incrementing MUST tek-id-psyloads-timestamp-in-utc tek-id-psyload-time-re-clean-session-311 MUST tek-id-psyload-time-re-tean-session-311 MUST tek-id-topics-doith-metric-reqs MUST tek-id-topics-doith-metric-reqs MUST tek-id-topics-doith-metric-reqs MUST tek-id-topics-doith-metric-reqs MUST tek-id-topics-doith-metric-reqs MUST tek-id-topics-doith-sep-unm MUST tek-id-topics-doith-sep-unm MUST tek-id-topics-doith-sep-unm MUST tek-id-topics-doith-metric-reqs MUST tek-id-topics-mith-metric-reqs MUST tek-id				
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