Frame codec — HLR/LLR traceability (Ceedling + Unity)

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FAILED — 2 rule violation(s)

Summary

MEASURE	VALUE
Requirements	**6**
Test coverage (testable requirements with a linked test)	**100.0%**
Verified (all linked tests passed)	**66.7%**
With a linked test / verified / uncovered / failing / not testable	**6 / 4 / 0 / 2 / 0**
Unknown ids referenced / tests without requirement	**0 / 0**

Coverage by level

LEVEL	REQUIREMENTS	WITH TEST	VERIFIED	UNCOVERED	WITH SOURCE TRACE	WITH PARENT	TEST COVERAGE
HLR	3	3	2	0	0	0	**100%**
LLR	3	3	2	0	3	3	**100%**

Findings (2)

SEVERITY	CODE	MESSAGE	LOCATION
error	**TEST_FAILED**	HLR-2: 1 linked test(s) failed (test_frame_bad_crc_is_rejected)	docs/requirements/requirements.yml
error	**TEST_FAILED**	LLR-12: 1 linked test(s) failed (test_frame_bad_crc_is_rejected)	docs/requirements/requirements.yml

Sign-off

ROLE	NAME	DATE	SIGNATURE
Prepared by			
Reviewed by			
Approved by			

Traceability matrix

uncovered: no linked test · covered: linked test, no result · verified: all linked tests passed · failing: a linked test failed · n/a: not verified by test

HLR — 3 requirement(s)

REQUIREMENT	TITLE	TRACES UP	VERIF.	TESTS AND RESULTS	IMPLEMENTED IN	STATUS
HLR-1 docs/requirements/requirements.yml	CRC-16 computation children: LLR-10	—	test	test_crc16_known_vector test/test_crc16.c:7 PASS test/test_crc16.c::test_crc16_known_vector	—	verified
HLR-2 docs/requirements/requirements.yml	Frame validation children: LLR-12	—	test	test_frame_bad_crc_is_rejected test/test_frame.c:15 FAIL test/test_frame.c::test_frame_bad_crc_is_rejected	—	failing
HLR-3 docs/requirements/requirements.yml	Zero-length frames children: LLR-11	—	test	test_frame_too_short_is_rejected test/test_frame.c:8 PASS test/test_frame.c::test_frame_too_short_is_rejected	—	verified

LLR — 3 requirement(s)

REQUIREMENT	TITLE	TRACES UP	VERIF.	TESTS AND RESULTS	IMPLEMENTED IN	STATUS
LLR-10 docs/requirements/requirements.yml	CRC table-less implementation	HLR-1	test	test_crc16_known_vector test/test_crc16.c:7 test_crc16_empty_buffer_is_seed test/test_crc16.c:14 PASS test/test_crc16.c::test_crc16_known_vector PASS test/test_crc16.c::test_crc16_empty_buffer_is_seed	src/crc16.c:3 crc16_ccitt	verified
LLR-11 docs/requirements/requirements.yml	Frame length check	HLR-3	test	test_frame_too_short_is_rejected test/test_frame.c:8 PASS test/test_frame.c::test_frame_too_short_is_rejected	src/frame.c:4 frame_validate	verified
LLR-12 docs/requirements/requirements.yml	CRC mismatch	HLR-2	test	test_frame_bad_crc_is_rejected test/test_frame.c:15 test_frame_good_crc_is_accepted test/test_frame.c:22 FAIL test/test_frame.c::test_frame_bad_crc_is_rejected PASS test/test_frame.c::test_frame_good_crc_is_accepted	src/frame.c:4 frame_validate	failing