

NimBLE 1.1.0 Test Results

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Result Key

Pass
Fail
Untested

bleprph

NOTE: default application stack is too small and is causing issues with pairing when keys distribution is enabled

Units Under Test

- nRF51dk
- nRF52dk
- nRF52840 PDK

Peer Devices

- **A:** Android phone running nRF Connect
- **I:** iPhone
- **M:** Mynewt device running bletiny
- **O:** OS X running LightBlue 1.2
- **B:** Linux with BlueZ

Test	nRF51dk	nrf52dk	nrRF52840	Comments
Central connects and disconnects several times			AI	
Central initiates legacy just-works pairing			AI	
Central restores encrypted connection via bonding			AI	
Central initiates secure-connections just-works pairing			AI	

btshell - peripheral

Units Under Test

- nRF51dk
- nRF52dk
- nRF52840 PDK

Peer Devices

- **A:** Android phone running nRF Connect
- **I:** iPhone
- **M:** Mynewt device running bletiny
- **O:** OS X running LightBlue 1.2

Test	nRF51dk	nRF52dk	nrRF52840	nrRF52840 (BT5, 1M)	2M	coded	Comments
Peripheral performs undirected advertising	MAI	MAI	MAI	M	M	M	
Central pairs with peripheral	MAI	MAI	MAI	M	M	M	
Central restores encrypted connection via bonding	MAI	MAI	MAI	M	M	M	
Central reads characteristic	MAI	MAI	MAI	M	M	M	
Central writes characteristic	MAI	MAI	MAI	M	M	M	

Central enabled indications	MAI	MAI	MAI	M	M	M	
Peripheral sends indication when characteristic changes	MAI	MAI	MAI	M	M	M	
Two centrals connect to peripheral	M+A	M+A	M+M, M+A	M+A	M+A	M+M	

btshell - central

Units Under Test

- nRF51dk
- nRF52dk

Peer Devices

- **A:** Android phone running nRF Connect
- **I:** iPhone
- **M:** Mynewt device running bletiny
- **O:** OS X running LightBlue 1.2

Test	nRF51dk	nRF52dk	nrRF52840	nrRF52840 (BT5, 1M)	2M	coded	comments
General connection establishment procedure	MAI	MAI	MAI	M	M	M	
Service discovery	MAI	MAI	MAI	M	M	M	
Central pairs with peripheral	MAI	MAI	MAI	M	M	M	
Central restores encrypted connection via bonding	MAI	MAI	MAI	M	M	M	
Central reads characteristic	MAI	MAI	MAI	M	M	M	
Central writes characteristic	MAI	MAI	MAI	M	M	M	
Central enables indications	MAI	MAI	MAI	M	M	M	
Central connects to two peripherals	Timeout	M+A	M+M, M+A	M+A	M+A	M+M	

blehci - BlueZ

Units Under Test

- nRF51dk
- nRF52dk

Peer Devices

- **A:** Android phone running nRF Connect
- **I:** iPhone
- **M:** Mynewt device running bletiny
- **O:** OS X running LightBlue 1.2

Test	nRF51dk	nRF52dk
Connect		
Pair		
Send some data		
Ensure connection stays up		

Qualification Tests

Component	Test tool (version)	nRF52832	nRF52840	Comments
Controller	Harmony 2018.20	PASS	PASS	
	PTS 7.3		PASS	