	Target	iOS	iOS	iOS	Android	Android	Android
Source	**State**	**Foreground**	**Background**	**Terminated**	**Foreground**	**Background**	**NonTransmitting**
iOS	**Foreground**	**YES** Source discovers Target, then subscribes to signal characteristic for keep awake.	**YES** Target discovers Source, then subscribes to signal characteristic for keep awake, triggering Source to retrieve Target as connected peripheral.	**YES** Target discovers Source, triggers Target state restoration, then subscribes to signal characteristic for keep awake, triggering Source to retrieve Target as connected peripheral.	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Target discovers Source, connects to Source, writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Target, written to Source via signal characteristic. Payload sharing is also written to Source via signal characteristic.
iOS	**Background**	**YES** Source discovers Target, then subscribes to signal characteristic for keep awake, triggering Target to retrieve Source as connected peripheral.	**YES** 1. Screen on triggers Source to discover Target, then subscribes to signal characteristic for keep awake, triggering Target to retrieve Source as connected peripheral. 2. Without screen on, Source detects Target by reading payload sharing data from 3rd transmitting device.	**YES** 1. Screen on triggers Source to discover Target, then subscribes to signal characteristic for keep awake, triggering Target state restoration, and triggers Target to retrieve Source as connected peripheral. 2. Without screen on, Source detects Target by reading payload sharing data from 3rd transmitting device that triggers Target state restoration.	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Target discovers Source, connects to Source, writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Target, written to Source via signal characteristic. Payload sharing is also written to Source via signal characteristic.
iOS	**Terminated**	**YES** Source discovers Target, triggers Source state restoration, then subscribes to signal characteristic for keep awake.	**YES** 1. Screen on triggers Source to discover Target and state restoration, then subscribes to signal characteristic for keep awake, triggering Target to retrieve Source as connected peripheral. 2. Without screen on, Source discovers 3rd transmitting device, triggering Source state restoration, then detects Target by reading payload sharing data from 3rd device.	**YES** 1. Screen on triggers Source to discover Target and state restoration, then subscribes to signal characteristic for keep awake, triggering Target state restoration and to retrieve Source as connected peripheral. 2. Without screen on, Source discovers 3rd transmitting device, triggering Source state restoration, then detects Target by reading payload sharing data from 3rd device.	**YES** Source discovers Target, triggers Source state restoration, then connect, read payload, and disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target, triggers Source state restoration, then connect, read payload, and disconnects. RSSI measurements taken by scan without connect.	**YES** Target discovers Source, connects to Source, triggers Source state restoration, and writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Target, written to Source via signal characteristic. Payload sharing is also written to Source via signal characteristic.
Android	**Foreground**	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target by manufacturer ID only, connect, discover services, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target by manufacturer ID only, connect, triggers Target state restoration, discover services, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Target discovers Source, connects to Source, writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Target, written to Source via signal characteristic. Payload sharing is also written to Source via signal characteristic.
Android	**Background**	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target by manufacturer ID only, connect, discover services, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target by manufacturer ID only, connect, triggers Target state restoration, discover services, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Source discovers Target, connect, read payload, then disconnects. RSSI measurements taken by scan without connect.	**YES** Target discovers Source, connects to Source, writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Target, written to Source via signal characteristic. Payload sharing is also written to Source via signal characteristic.
Android	**NonTransmitting**	**YES** Source discovers Target, connects, writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Source, written to Target via signal characteristic. Payload sharing is also written to Target via signal characteristic.	**YES** Source discovers Target by manufacturer ID only, connects, discover services, writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Source, written to Target via signal characteristic. Payload sharing is also written to Target via signal characteristic.	**YES** Source discovers Target by manufacturer ID only, connects, triggers Target state restoration, discover services, writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Source, written to Target via signal characteristic. Payload sharing is also written to Target via signal characteristic.	**YES** Source discovers Target, connects, writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Source, written to Target via signal characteristic. Payload sharing is also written to Target via signal characteristic.	**YES** Source discovers Target, connects, writes payload to signal characteristic, then disconnects. RSSI measurements taken by scan at Source, written to Target via signal characteristic. Payload sharing is also written to Target via signal characteristic.	**YES** Source discovers 3rd transmitting device, then detects Target by reading payload sharing data from 3rd device.