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		-	А	RELEASED	Felipe Varela	06/15/12	Timo Ronan	11/01/12	Ricahrd Grundy (KS)	11/02/12

Flomio's FloJack solution consists of RF protocols (HW) and an iOS SDK to conform to the NFC Forum standards. The following chart describes FLOJACK NFC SPECTRUM the level of coverage that the FloJack has in the NFC ecosystem and the vendor specific tags that can be interacted with.



Richard Grundy (KS)

11/02/12

NTA

Millimeters

3 of 3

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FloJack Message Protocol

Date Created: June 11, 2012 Version: Rev 6.1

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Revision History

Date	Version	Author	Description
06/11/2012	Rev 1.0	Flomie	Initial Draft.
06/15/2012	Rev 2.0	Flomie	Added Definition section and detail descriptions for each opcode.
08/27/2012	Rev 3.0	Flomie	Added new sections.
11/02/2012	Rev 4.0	Flomie	Removed track changes formatting.
11/04/2012	Rev 5.0	Flomie	Updated document layout and formatting.
11/24/2012	Rev 5.1	Flomie	Added sections 3.18 – 3.20.
08/10/2013	Rev 6.0	Flomie	Added sections $3.21 - 3.23$. Added Sniffer support to sections 3.1 and 3.2 .
08/24/2013	Rev 6.1	Flomie	Added Sniffer Enable to section 3.23.

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1 Introduction

11 Purpose

This purpose of this document is to describe the data communication interface of the Flomio FloJack NFC reader. The document will discuss the method of communication and the message opcodes above the driver layer.

12 Scope

This document is intended for developers that want to interface to the FloJack from a PC or mobile device. The main focus will be on the message structure and the details of each message supported.

13 Definitions

- ▲ Accessory FloJack NFC reader that plugs into 3.5mm 4 pole audio jack.
- Client any PC or mobile device that communicates to the Accessory through an audio jack interface.
- ▲ Interface audio jack port used by Accessory and Client to exchange data. Implements virtual UART with Manchester encoding.
- ▲ Active mode accessory is connected to Client that can actively exchange messages
- ▲ Free mode accessory is disconnected from anything and carried freely.
- ▲ Carry mode accessory is connected to a terminator like a key chain that grasps the audio jack tightly
- ▲ Passive tags NFC tags that are battery-less
- ▲ Active peers NFC readers that have batteries and operate in peer-to-peer mode using the Client

14 Overview

The FloJack device supports bidirectional serial communication with Client over an audio jack interface. Digital communication is accomplished by using Manchester encoded UART data stream. Manchester encoding works by sending 01 for every 1 and 10 for every 0. The Accessory transmits to the Client over the Interface using the microphone port of the four pole audio jack and receives data from the left channel port. The right channel is currently reserved for future use.

All messages sent between the Accessory and Client will use the message format defined in this document. The message format will consist of an opcode, length, data, and CRC checksum. The Client and Accessory will also support ACK/NAKing each message which is configurable by the Client.

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2 Message Format

21 Structure:

The Accessory and Client will support a maximum message length of 256 bytes where 3 bytes are allocated for the message overhead, allowing for a total payload of 253 bytes. The message is defined as follows:

Opcode	Length	Data/Sub-Opcode	CRC
1 Byte	1 Byte	N Bytes	1 Byte

211 Opcode

The Opcode field is a 1 byte value that indicates the message being sent.

212 Length

The Length field is a 1 byte value that sums the bytes for the total message. The Length field will always be a minimum of 4 bytes (3 overhead bytes + N Data bytes where N is greater than 0).

2 1 3 Data/Sub-Opcode

This field is a variable length field and may contain either the payload data for the message, a subopcode, or both in the case of a response message. The payload structure is dependent on the value in the Opcode field and specified in the definition section of the corresponding Opcode.

2 1 4 CRC

The CRC field is 1 byte checksum for the total message. The checksum is calculated by Exclusive ORing the entire message. After receiving a message, the receiving device is responsible for validating the checksum before executing. If the checksum doesn't match the message is thrown out.

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3 Message Opcodes

31 Accessory Status

Originator: Client only.

This command allows the Client to query the device for its status. There are specific sub-opcodes for each type of status that can be queried individually or all can be requested with one request.

	Opcode	Length	Sub-Opcode	CRC
All	0x01	0x04	0x00	0x05
HW Revision	0x01	0x04	0x01	0x04
SW Revision	0x01	0x04	0x02	0x07
Battery	0x01	0x04	0x03	0x06
Sniff Threshold	0x01	0x04	0x04	0x01
Sniff Calibration	0x01	0x04	0x05	0x00
TBD	0x01	TBD	TBD	TBD

3 2 Accessory Status Response

This command allows the Accessory to respond to the Client's request for status.

	Opcode	Length	Sub-Opcode	Data	CRC
All	0x01	Variable	0x00	Variable	Variable
HW Revision (2 bytes)	0x01	0x06	0x01	Variable	Variable
SW Revision (2 bytes)	0x01	0x06	0x02	Variable	Variable
Battery (1 byte)	0x01	0x05	0x03	TBD	Variable
Sniff Threshold	0x01	0x06	0x04	Variable	Variable
Sniff Calibration (17	0x01	0x24	0x05	Variable	Variable
Words)					
TBD	0x01	TBD	TBD	TBD	TBD

When **All** status updates are requested the message will be returned in an extended format where the Data/Sub-Opcode field will contain all possible each Sub-Opcode and it's corresponding Data followed by the next Sub-Opcode and Data. This pattern repeats until Sub-Opcodes are represented. The Length field and CRC will be calculated based on the entire message. See table below for an example

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Opcode	Length	Sub-Opcode 1	Data 1	Sub-Opcode 2	Data 2	Sub-Opcode n	Data n	CRC
0x01	LL	SS1	DD1	SS2	DD2	SSn	DDn	CC

3 3 NFC Protocol Enable/Disable

Originator: Client only.

This command allows the Client to enable select NFC Protocols in the Accessory.

Protocol	Opcode	Length	NFC Protocol	Enable	CRC
14443A	0x02	0x05	0x00	0x01	0x06
14443B	0x02	0x05	0x01	0x01	0x07
15693	0x02	0x05	0x02	0x01	0x04
Felica	0x02	0x05	0x03	0x01	0x05
				Disable	
14443A	0x02	0x05	0x00	0x00	0x07
14443B	0x02	0x05	0x01	0x00	0x06
15693	0x02	0x05	0x02	0x00	0x05
Felica	0x02	0x05	0x03	0x00	0x04

34 Polling Enable/Disable

Originator: Client only.

This command allows the Client to enable NFC Protocol polling in the Accessory.

	Opcode	Length	Enable/Disable	CRC
Disable	0x03	0x04	0x00	0x07
Enable	0x03	0x04	0x01	0x06

3 5 Polling Frequency

Originator: Client only.

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This command allows the Client to configure the NFC Protocol polling rate in the Accessory.

Opcode	Length	Range: 0x00 – 0xFF; Step Size: 25ms	CRC
0x04	0x04	0x00 - 0xFF	0x00 - 0xFF

36 Tag UID Found

Originator: Accessory only.

This command allows the Accessory to report to the Client.

Opcode	Length	Protocol	Tag (10 Bytes)	CRC
0x05	0x0E	Variable	Variable	Variable

37 ACK/NAK Enable/Disable

Originator: Client only.

This command allows the Client to configure the Accessory to support ACKing and NAKing each message. The default case is off.

	Opcode	Length	Enable/Disable	CRC
Disable	0x06	0x04	0x00	0x02
Enable	0x06	0x04	0x01	0x03
Bad ACK	0x06	0x04	0x80	0x82
Good ACK	0x06	0x04	0x81	0x83

38 Standalone

Originator: Client only.

This command allows the Client to enable Standalone operation in the Accessory.

	Opcode	Length	Enable/Disable	CRC
Disable	0x07	0x04	0x00	0x03

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Enable	0x07	0x04	0x01	0x02

39 Keep Alive Time

Originator: Client only.

This command allows the Client to configure the timeout period for the Accessory to operate while disconnected from the Client. A value of 0x00 will be treated as infinite and the accessory will not timeout.

Opcode	Length	Range: 0x00 – 0xFF; Step Size: 1 minute	CRC
0x08	0x04	Variable	Variable

3 10 Dump Log

Originator: Client only.

This command allows the Client to request from the Accessory the list of all Ids scanned while running in Free Mode.

	Opcode	Length	Data	CRC
All	0x09	0x04	0x00	0x0D
TBD	0x0n	TBD	TBD	TBD

3 11 Dump Log Response

This command allows the Accessory to return all tag Ids scanned while running in Free mode to the Client. The log will be cleared after sending the log to the Client.

	Opcode	Length	Data	CRC
All	0x09	Variable	Variable	Variable
TBD	0x0n	TBD	TBD	TBD

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3 12 LED Control

Originator: Client only.

This command allows the Client to configure type of LED display actions of the Accessory.

	Opcode	Length	Sub-Opcode	LED:	Action:	Data (1 Byte):	CRC
				0x01 – LED 1	0x00: Blink	Quantity	
				0x02 – LED 2	0x01: Heartbeat	Rate	
				0x03 – LED 3	0x02: Pulse	Rate	
Idle	0x0A	0x07	0x00	Variable	Variable	Variable	Variable
On Scan	0x0A	0x07	0x01	Variable	Variable	Variable	Variable
Validation	0x0A	0x07	0x02	Variable	Variable	Variable	Variable
Interface	0x0A	0x07	0x03	Variable	Variable	Variable	Variable
Activity							

3 13 TI Host Commands

Originator: Client only.

This command allows the Client to send TI TRF7970 EVM host commands.

Opcode	Length	Data	CRC
0x0B	TBD	Variable	Variable

3 14 TI Host Commands Response

Originator: Client only.

This command allows the Accessory to reply to each TI TRF7970 EVM host command received.

Opcode	Length	Data	CRC
0x0B	TBD	Variable	Variable

3 15 Communication Config

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Originator: Client only.

This command allows the Client to set communication parameters for the Accessory.

	Opcode	Length	Sub-Opcode	Data	CRC
Byte Delay	0x0C	0x05	0x00	Variable	Variable
Ping Disable	0x0C	0x05	0x01	0x00	0x08
Ping Enable	0x0C	0x05	0x01	0x01	0x09

3 16 Ping request

Originator: Accessory only.

This command allows the Accessory to query the Client to confirm connection is still active.

	Opcode	Length	Sub-Opcode	CRC
Ping	0x0D	0x04	0x00	0x09

3 17 Ping response

Originator: Client only.

This command allows the Client to respond to the Ping request from the Accessory.

	Opcode	Length	Sub-Opcode	CRC
Pong	0x0D	0x04	0x01	0x08

3 18 Operation Mode

Originator: Client only.

This command allows the Client to configure the Accessory's for one of the following modes of operation:

UID Only: Accessory will only send scanned UID to Client. (Can be configured to disable redundant scans.)

Read Only: Accessory will send scanned UID along with all data blocks read. Write Only: Accessory will write each tag with preconfigured data. (Can be configured to check for

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override.)

Read/Write: Accessory will send scanned UID to Client and wait for read/write action or until it detects a new tag.

Mode	Opcode	Length	Sub-Opcode 1	Sub-Opcode 2	CRC
UID Only	0x0E	0x05	0x00	Redundant Scans	
				Disabled: 0x00	0x0B
				Enabled: 0x01	0x0A
Read Only	0x0E	0x04	0x01	N/A	0x0B
Write Only	0x0E	0x05	0x02	Override Data	
				Disabled: 0x00	0x09
				Enable: 0x01	0x08
Read/Write	0x0E	0x04	0x03	N/A	0x09

3 19 Block Read/Write

Originator: Client only.

This command allows the Client to issue block read and write commands to the Accessory.

	Opcode	Length	Sub-Opcode	Offset	Number of	Data	CRC
					Bytes		
Read Block	0x0F	Variable	0x00	Variable	Variable	N/A	Variable
Write Block	0x0F	Variable	0x01	Variable	Variable	Variable	Variable
Continuous	0x0F	Variable	0x02	Variable	Variable	Variable	Variable
Write							

3 20 Block Read/Write Response

Originator: Accessory only.

This command allows the Accessory to respond to the Client with the result of the block read and write commands request.

	Opcode	Length	Sub-Opcode	Offset	Number of	Data	CRC
					Bytes		
Read Block	0x0F	Variable	0x00	Variable	Variable	Variable	Variable
Write Block	0x0F	Variable	0x01	Variable	Failure: 0x00	N/A	Variable
					Success:		
					Number of		
					Bytes Written		

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Continuous	0x0F	Variable	0x02	Variable	Failure: 0x00	UID of Tag	Variable
Write					Success:	Written	
					Number of		
					Bytes Written		

3 21 Tag Write

Originator: Client only.

This command allows the Client to issue a tag write command to the Accessory.

	Opcode	Length	???	???	???	Data	CRC
Tag Write	0x10	Variable	???	???	???	???	Variable

3 22 Tag Write Response

Originator: Accessory only.

This command allows the Accessory to respond to the Client with the result of the tag write command request.

	Opcode	Length	???	???	???	Data	CRC
Tag Write	0x10	Variable	???	???	???	???	Variable

3 23 Sniffer Configuration

Originator: Client only.

This command allows the Client modify sniffer configuration commands on the Accessory.

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	Opcode	Length	Sub-Opcode	Value (16 bit)	CRC
Increment Threshold	0x11	0x06	0x00	Variable	Variable
Decrement Threshold	0x11	0x06	0x01	Variable	Variable
Reset Threshold	0x11	0x04	0x02	N/A	0x17
Set Max Threshold	0x11	0x06	0x03	Variable	Variable
Sniffer Enable	0x11	0x05	0x04	0x00: Off	Variable
				0x01: On	
				0x02: Advanced	

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