

oPod Commands

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Generic command format

Each command to the device contains a data payload wrapped in the following format:

Byte Count	Description
2	Header constant ('V' 'C')
1	Program Identifier
1	Revision
1	Opcode (see chart)
2	Payload Length
N	Payload
1	Checksum

Using the following opcodes:

Command	Value
Play smells	0
Stop	1
Query device status	2
Write track	3
Read track	4
Query RFID	5
Enable Timeout	6
Write Settings	7
Query For Offline Analytics	8
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Generic response format

The device will write a response in the format:

Byte Count	Description
2	Header constant ('V' 'C')
1	Firmware Revision
1	Response status (see chart)
1	Opcode of command responding to
2	Payload Length
N	Payload
1	Checksum

Using the response statuses:

Description	Value
OK	0
Unknown error	1
Data integrity error	2

Command Payloads

Play smells

Byte Count	Description
1	Intensity (percentage, 0 - 100)
2	Duration (seconds)
1	Number of scent codes
N	Scent codes

Track Programming (same payload format for command and response)

Byte Count	Description
32	Identifier string
1	Scent family code
1	Shuffle flag
1	Loop flag
1	Number of steps in track

For each step in track:

Byte Count	Description
2	Duration (seconds)
2	Pause (seconds)
1	Fan speed
1	Number of scent codes N
N	Scent codes

Query RFID

Byte Count	Description
0	No payload

Enable timeout

Byte Count	Description
1	Timeout enabled

Write Settings

Byte Count	Description
1	Fan Speed (percentage, 0 - 100%)
1	Timeout On (if false we never time out)
2	Timeout Duration (minutes)
1	Autoplay On (v2.6)
2	Autoplay Wait Time (seconds) (v2.6)

Response Payloads

Query for status

Byte Count	Description
1	Battery level (percentage, 0-100)
1	Current state (see chart)
1	Has Offline Analytics (true if device needs to have its offline analytics retrieved)

Statuses

Description	Value
Stopped	0
Playing	1

Query for RFID info

Byte Count	Description
1	RFID tag valid
1	RFID tag version
1	Device target (e.g. 1 = Cyrano)
2	Family Code (Integer, e.g. 6 for Natural Moods)
2	Length of Chipset ID in bytes (N)
N	Chipset ID

Query for Offline Analytics

Byte Count	Description
Number Of Elements * 3	Each entry consist of a time in seconds (2 bytes) and number of steps played for that session (1 byte)

RFID Tag Data format

This is the structure of the data that is stored on the RFID tag (Little endian, like our commands)

Byte Count	Description
2	‘V’ ‘C’
1	Version
2	Number of bytes in payload (N)
N	Payload
1	Checksum

RFID Version 1 Payload Format

Byte Count	Description
1	Device target
2	Family Code (Integer, e.g. 6 for Natural Moods)