

Serial Protocol

Appendix F. EXAMPLES

In this chapter, communication method is explained with examples.

1. Request Connection

For checking serial connection, use "Request Connection" command. For explanation on real packet data, assume that the device has 10 users in DB. The following figure shows the sequence of packets, and the contents of packets.

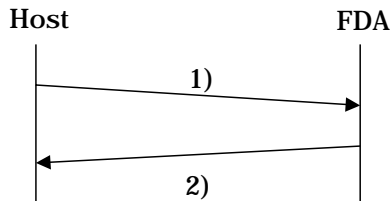


Figure E.1 The sequence of Request Connection

1) The structure of CMD_REQUEST_CONNECTION command packet

The following table shows the command packet made in the host. (Refer to Appendix D)

Command	0x00000001
Param1	0x00000000
Param2	0x00000000
Data Size	0x00000000
Error Code	0x00000000
Header Checksum	0x00000001

The following table shows the sequence of data to be transmitted to the device.

7E	00 00 00 01	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 01
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2) Acknowledgement packet

In response to CMD_REQUEST_CONNECTION packet from host, the device sends acknowledgement packet meaning a success as the following. (Refer to Appendix D)

Command	0x00000001
Param1	0x00000001

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Param2	0x0000000A
Data Size	0x00000000
Error Code	0x00000000
Header Checksum	0x0000000C

If the host gets the following packet, it means that the communication was successfully done.

7E	00 00 00 01	00 00 00 01	00 00 00 0A	00 00 00 00	00 00 00 00	00 00 00 0C
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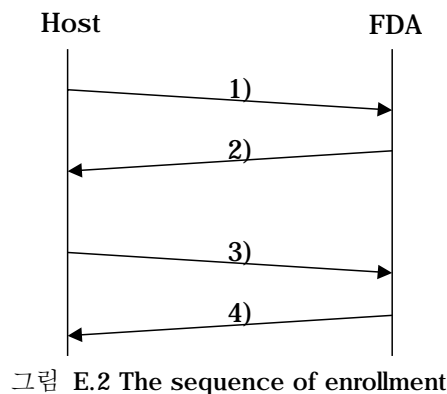
2. User Enrollment

There are two methods in registering user. The first method is the use of CMD_ENTROLL_FP_STEP1 and CM_ENROLL_FP_STEP2. And the second method is the use of CMD_REGISTER_FP. The second is only supported in FIM10. The CMD_REGISTER_FP is recommended because CMD_ENROLL_FP_SETP1 and CMD_ENROLL_FP_STEP2 are to be obsolete.

2.1 Using CMD_ENROLL_FP_STEP1 & CMD_ENROLL_FP_STEP2

2.1.1 Enrolling normal user

Assume that a device has 10 users in DB. The following figure shows the sequence of enrolling user with the ID '1234'.



1) the structure of CMD_ENROLL_FP_STEP1 command packet

The following table shows the command packet made in the host. (Refer to Appendix D)

Command	0x00000020
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