ARETE
mobile

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Revision History

Version	Date	Changes
00	2014-10-10	Initially released

▌ ARETE POP firmware had been updated to report the extended error code. The new RCP packet is assigned 3 bytes for error code while the legacy packet has 1 byte of error code. The first byte of error code is the same as the legacy error code for backward compatibility. Next 2 bytes have more information.

Preamble	Msg Type	Code	PL (MSB)	PL (LSB)	Error Code	End Mark	CRC-16
0xBB	0x01	0xFF	0x00	0x01	[0]	0x7E	0xNNNN

Preamble	Msg Type	Code	PL (MSB)	PL (LSB)	Error Code	Error Code	Error Code
0xBB	0x01	0xFF	0x00	0x02	[0]	[1]	[2]

End Mark	CRC-16
0x7E	0xNNNN

▌ Android and iPhone Api also report 3 bytes error code.

iOS	@optional **- (void) failureReceived:(NSData *)errCode**
Android	**void onFailureReceived(final int[] errCode)**
Description	You can override this method to perform additional tasks associated with RCP error.
Parameters	errCode[0]: RCP error code. - 0x09: Failure to read the tag memory - 0x0B: 'startReadTags' in Operation - 0x0D: Not in mode 'Read Type C Tag ID Multiple' - 0x0E: Invalid parameter - 0x10: Failure to write data - 0x12: Failure to kill a tag - 0x13: Failure to lock a tag - 0x15: Failure to read a tag - 0x18: Not supported command - 0xFF: CRC Error errCode[1]: Command code errCode[2]: More information
Return Value	None

❚ The third byte gives more information shown below.

✓ 0x00 – 0x0F : EPC Gen2 V2.0 Error Message
> 0x00 : Other error
> 0x01 : Not supported
> 0x02 : Insufficient privileges
> 0x03 : Memory overrun
> 0x04 : Memory locked
> 0x05 : Crypto suite error
> 0x06 : Command not encapsulated
> 0x07 : ResponseBuffer overflow
> 0x08 : Security timeout
> 0x0B : Insufficient power
> 0x0F : Non-specific error

✓ 0x10 – 0x7F : Vendor Specific Error Code
> 0x11 : Sensor scheduling configuration (EM4325)
> 0x12 : Tag busy (EM4325)
> 0x13 : Measurement type not supported (EM4325)

✓ 0x80 – 0x8F : [PHYCHIPS] Protocol Error
> 0x80 : FAIL_NO_TAG_DETECTED
> 0x81 : FAIL_HANDLE_ACQ
> 0x82 : FAIL_PASSWORD

✓ 0x90 – 0x9F : [PHYCHIPS] Modem Error
> 0x90 : FAIL_CRC_ERROR
> 0x91 : FAIL_RX_TIMEOUT

✓ 0xA0 – 0xEF : Reserved

✓ 0xF0 – 0xFF : [PHYCHIPS] Common Error
> 0xF0 : FAIL_NOT_SUPRT_CMD
> 0xF1 : FAIL_UNDEF_CMD
> 0xF2 : FAIL_INVALID_PARM
> 0xF3 : FAIL_TOOHIGH_PARM
> 0xF4 : FAIL_TOOLOW_PARM
> 0xF5 : FAIL_READ_AUTO_OP
> 0xF6 : FAIL_NO_AUTO_MODE
> 0xF7 : FAIL_RDR_RESET
> 0xF8 : FAIL_GET_LAST_RSP
> 0xF9 : FAIL_CTRL_TEST
> 0xFF : FAIL_CMD

ARETE mobile Customer Service

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Local Customer Service

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