

From
RBEI/EBB7

Our Reference
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Date
17 April 2018

NRC Supported and NRC Priority flow as per ISO 2013

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History

No	Date	Author	Description
1	17 April 2018	Jero Paulraj Johnson	First Release



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NRC SUPPORTED : BOSCH (ISO 2013)

Serial Number	Service	NRC Supported
1	0x10 Service	0x11, 0x12 ,0x13,0x22,0x7E,0x 7F
2	0x11 Service	0x11, 0x12 ,0x13,0x22,0x7F
3	0x28 Service	0x11, 0x12 ,0x13,0x31,0x7F
4	0x85 Service	0x11, 0x12 ,0x13,0x7F
5	0x27 Service	0x11, 0x12 ,0x13,0x22,0x24,0x 35,0x36,0x 37,0x7F
6	0x22 Service	0x11,0x13,0x14,0x22,0x 31,0x33,0x 7F
7	0x2E Service	0x11,0x13,0x22,0x 24,0x31,0x 33,0x7F
8	0x31 Service	0x11,0x12,0x13,0x 22,0x24,0x 31,0x33,0x7F
9	0x34 Service	0x11,0x13,0x22,0x 31,0x33,0x 70,0x7F
10	0x36 Service	0x11,0x13,0x24,0x 31,0x71,0x 72,0x73,0x7F,0x22*
11	0x37 Service	0x11, 0x13 ,0x24,0x7F,0x22*

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NRC PRIORITY FLOW : BOSCH (ISO 2013)

Serial Number	Service	Sub Function	NRC Priorities
1	0x10 Service	With sub function	0x11 > 0x7F > 0x13 (min length) > 0x12 > 0x7E > 0x13 (exact length) > 0x22
2	0x11 Service	With sub function	0x11 > 0x7F > 0x13 (min length) > 0x12 > 0x13 (exact length) > 0x22
3	0x28 Service	With sub function	0x11 > 0x7F > 0x13 (min length) > 0x12 > 0x13 (exact length) > 0x31
4	0x85 Service	With sub function	0x11 > 0x7F > 0x13 (min length) > 0x12 > 0x13 (exact length)
5	0x27 Service	With sub function	Seed : 27 01-> 0x11 > 0x7F > 0x13 (Min. length) > 0x12 > 0x13 (exact length)> 0x37>0x22 Key : 27 02-> 0x11 > 0x7F > 0x13 (Min. length check) > 0x12 > 0x24 > 0x13 (exact length) > 0x35 > 0x36 > 0x22
6	0x22 Service	Without Sub function	0x11> 0x7F > 0x13 (Min length check)> 0x31 > 0x33 > 0x14 > 0x22
7	0x2E Service	Without Sub function	0x11> 0x7F > 0x13 (min length) > 0x31> 0x13 (max length) > 0x33 > 0x24(Optional*) >0x22
8	0x31* Service	With sub function	0x11> 0x7F > 0x13 (Min. length) > 0x31(RID) > 0x33 > 0x12 > 0x13 (max length) > 0x31(ALFI) >0x24 > 0x22
9	0x34 Service	Without Sub function	0x11 > 0x7F > 0x13 (Min. length) > 0x31 (ALFI and data format id check) > 0x13 (exact length) > 0x31 (memory address valid) > 0x33 > 0x70 > 0x22
10	0x36 Service	Without Sub function	0x11 > 0x7F > 0x13 (exact length) > 0x24 > 0x72(optional**)> 0x71 > 0x73 > 0x31 > 0x72 > 0x22
11	0x37 Service	Without Sub function	0x11> 0x7F > 0x24 > 0x13

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Optional* – NRC 24 is supported in service \$2E in order to give sequence error. The particular NRC can be disabled via cfg.

Optional -- NRC 0x72 will be given additional when compression is enabled**

0x31 * -- If the multiple logical are not having same Check mem length, NRC 31 is having more Priority than Maximum length check

0x22* -- It is supported in the CMP to avoid MISRA warning, this NRC cannot be reached via project configuration