



SHA-512 checksum summary

for ACS580, ACH580, ACQ580,
ACS480, ACH480, ACS380,
ACS560, ACS530, ACH531,
ACQ531, ACS180, ACQ80

3AXD10001515758

January 4th, 2022
Page 1 of 4

ACS580 Standard control program

ASCDX_v2.16.0.5_release.zip:

93 dc 04 5d 77 30 a0 9e e5 33 9b d5 fe fd d8 9a dc 7c 6a d7 bc 9a be a1 c1 e6 e8 45 b6 f3 3f 42 ba
f7 3f b9 44 0a a2 76 d2 49 37 eb 98 14 40 c7 66 85 31 90 d9 b5 48 4b 56 4a 9d 63 40 be c8 39

ASCDX_v2.16.0.2_release.zip:

5d a5 ba 17 00 a9 80 13 28 03 6a 9d b1 77 2d 8e 20 60 47 1b 3d 2c 71 ee 47 3a 73 0b 74 12 d5 30
ff d1 53 f9 2b ed f3 94 4c dd 2b 5c 03 90 c4 6b 9e 9d 85 93 37 d0 6c 66 d9 9d 66 f3 95 32 a9 fb

ASCDX_v2.15.0.10_release.zip:

b0 11 80 21 31 77 df c7 89 54 5d 6e f3 8b f7 d9 fb a9 a8 d2 d4 39 ba 54 31 1e ec a9 b6 2e 43 c2 15
fa 38 f3 d1 82 e7 61 8a 3a fb 43 6c a0 66 5a 9c fb e9 54 c3 0e d2 7b ed ef 5a a6 ea bf de c3

ACH580 HVAC control program

AHVDX_v2.15.0.17_release.zip:

9d e1 92 11 43 1f 39 fa 50 98 42 db f0 63 3c fc 69 dc d9 1f 06 f6 6f 44 46 5f ae 69 6d 8b 26 3b 9f 19
21 dc 7b 2b ed c7 fe e9 ff 8a 17 fe 54 ec 1d 2c ba dd 63 71 df f2 8e 2d a2 a0 2b f1 d2 14

AHVDX_v2.15.0.14_release.zip:

32 97 4a 16 1a ee b6 0c 97 92 d0 34 9e 6f 13 d8 53 64 89 d0 91 86 d1 cb 24 fd 62 17 e2 44 a4 0e 4c
3f 05 15 60 1e 08 e1 6e 4f 8a e0 4d a9 83 81 69 fa 6e a8 97 47 8a 94 7b 7b f9 d4 3f 1d 86 2e

ACQ580 Pump control program

AQADX_v2.15.0.17_release.zip:

9d e1 92 11 43 1f 39 fa 50 98 42 db f0 63 3c fc 69 dc d9 1f 06 f6 6f 44 46 5f ae 69 6d 8b 26 3b 9f 19
21 dc 7b 2b ed c7 fe e9 ff 8a 17 fe 54 ec 1d 2c ba dd 63 71 df f2 8e 2d a2 a0 2b f1 d2 14

AQADX_v2.15.0.10_release.zip:

2e 15 68 72 0f a8 5c 01 84 7e 84 3b f1 4e 38 7a cf b3 b3 2d e4 a8 9a a3 f7 cf d7 9a 7c dc 67 51 cd
7a d6 f9 ed f6 3d 11 c1 9c 98 20 e9 99 c5 0a 85 d4 90 1d 4b d4 20 e5 89 87 ae 80 5e 1c 97 10

ACx580-31 ISU R3, R6, R8: QCON-21/22 ISU control program

AISDX_v2.15.10.0_release.zip:

1a eb 7a 12 85 8d 1b bd 86 e2 f4 02 8d eb 47 06 9c e2 56 7b f2 74 ed 05 c3 ec b3 2f 00 ff c3 59 e6
82 16 ca 1c 64 60 79 1b 8a 6a c5 2f 20 05 04 80 af a6 b7 f8 d3 08 fd b6 da a5 51 54 2b e5 d3

ACx580-34 ISU R11: ZCU-12/14 ISU control program



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January 4th, 2022
Page 2 of 4

Release_LP_AISLX_v3.00.100.3.zip:

06 68 84 6c 1f dd 2d 5b 46 31 9b c3 eb 6c 65 23 d4 1b 4e 23 9a 87 06 f5 fa a3 f0 a4 86 fc d1 4f 31
ea 28 a9 3f 14 5c 5e 73 98 f2 6e 71 eb 26 ee b7 2d dd 81 22 43 e2 f7 cb 57 c6 2a d0 da 6c 30

ACS480 Standard control program

ASDDX_v2.16.0.6_release.zip:

96 63 ca 0d f1 b1 a7 04 7a da 74 d2 20 03 76 2e f5 5e f6 9a fb 73 34 12 42 f2 d4 f3 5a ee fd 5a ad
c0 80 e0 75 21 b3 ab f0 02 7a 00 78 d1 29 56 d3 77 c2 8b 69 b2 44 a1 b5 ff a9 37 9e 69 d0 60

ASDDX_v2.14.0.3_release.zip:

ca d9 d6 e8 33 c1 d0 f2 13 89 66 07 df 2b 0d 97 7b 5d 8e 15 60 01 aa a4 ef 48 42 56 aa 7c fc 6f 0a
4f 9b dd 23 dd 6f 06 6a f0 70 65 31 56 9f b3 6b 8b f2 92 62 4d 17 c1 47 e9 df 61 ae 6f 2a a1

ACH480 HVAC control program

AHVKA_v2.15.0.4_release.zip:

fc 24 5c 98 89 a0 a5 0 36 3a e0 c3 9a ce f3 f7 7b bb aa dd fe a2 6a 438a 9 96 25 22 90 a8 bf db e7
af 19 48 7b fa 97 fe c3 f2 43 72 c2 ec 82 2a 6d 16 dd 59 78 78 5c ad b8 a6 70 9a 49 69 b8 2f

ACS380 Machinery control program

AMCDX_v2.15.0.12_release.zip:

6d 1f c1 4c 37 c8 9a 18 16 1a 76 61 78 c7 3c 76 af a1 32 a5 89 f8 a1 0c 3a c5 42 1a c1 b1 4a 4c 40
0d 1d b1 9a d0 a0 2d 32 7e c1 5d 9e 7c bd 7c 08 a3 ad 31 df a5 34 ea e8 d8 be 04 82 7d dd bb

ACS560 Standard control program

IGPDX_v2.14.0.3_release.zip:

fd 84 f2 fa eb e6 6c cc 1e 30 69 d6 52 f2 cf 6a f2 f8 03 7e 79 1e 6e 8e d8 29 ff 24 cd 5a ff ed d4 95
c8 5a e9 d8 ed 07 34 4d 72 84 22 2b fb 12 9f c7 e6 c7 55 fd 2d 62 f3 bc 1c fc 1e 53 da 37

ACS530 Standard control program

QCVDX_v2.16.0.6_release.zip: 08 eb 9a ed 6d b6 16 20 c5 77 bd 75 06 9e d2 d6 d0 fc 5d b2 34 9c
da 58 79 d3 f4 c6 52 ee 15 7b b7 8e 73 4f 98 92 6f 33 57 80 38 a3 62 55 da 5d 0a f5 16 f9 c7 fe 74
0f 0f 12 6e d1 33 9b 8a 90

QCVDX_v2.10.1.2_release.zip:

86 7f 40 ba cd 4a 9d 0f 20 d6 99 bd 52 56 60 67 0e 22 b1 fc b6 ea 41 74 e5 cb 22 a5 40 24 d9 53 94
ad c8 93 2c b5 34 6d 33 3c 5c 7f 40 a8 ba 42 63 27 81 6d 88 e7 39 80 5a 30 7f 01 42 4d 4a 8d



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January 4th, 2022

Page 3 of 4

ACH531 HVAC control program – China

QHVDX_v2.15.0.15_release.zip: c2 9c bb f3 9c 55 42 69 0a 8a ac 6b 80 58 69 a3 30 2d cc cf 45 0d ff
94 6d 9e 91 7a 2f ca d1 c6 da e7 29 a4 86 5a 25 f5 78 8d 04 5d 35 b7 f1 87 3f f1 23 ef 38 b8 06 58
2a 94 07 38 42 9e 8b a4

QHVDX_v2.15.0.5_release_China.zip:

f4 14 05 94 7f 4f 7f 66 f9 a7 43 de a9 b7 ea 6d 05 23 a6 8b 1f de 42 e9 b0 db ac 40 e4 5c 5b 2a 68
35 44 92 80 4a 02 d3 a9 f8 d2 e1 d1 99 58 ea 3f 94 83 ba 3f 28 b9 3d 58 4d 08 fc f4 e5 18 14

ACH531 HVAC control program – India

QHVDX_v2.15.0.5_release_INDIAN.zip:

8b 4d d4 74 1d cb da e7 2a 5a f1 39 45 12 89 d4 4d 24 93 45 75 38 75 9f 00 75 20 ef 10 61 49 fd bd
3a 8a bd 85 a6 d3 f5 9d 5a f2 79 0f b9 1e 05 be 73 92 c7 59 4c 3c d2 48 9b 09 ba a0 ab f0 be

ACQ531 Pump control program

QQADX_v2.15.0.15_release.zip: c6 ae 07 61 59 39 01 36 c5 84 c4 61 8e 86 b3 8f 3b 93 38 d9 c5 9b
a2 0c 66 20 3c c1 5d d0 50 50 c8 6e 62 d5 a4 93 f2 aa ef 52 f1 f8 a3 9b c2 96 ce a3 82 f0 ee 86 0e
c7 9f bc eb 41 da 89 c7 1d

ACQ531_v2.09.2.0_release.zip:

75 06 7b 74 65 d4 d2 8a 19 9a c2 57 38 54 e4 f5 64 8f c2 22 ed 39 0e 79 11 2a 91 b2 61 62 39 7c 97
cb 11 60 e8 d1 c9 aa 91 91 b7 a2 dc d0 37 52 ce ec 17 27 8e 72 d4 63 6d 21 b4 bb df 10 1a fb

ACS180 Machinery control program

AMLDX_v2.16.0.3_release.zip:

2a ea be 48 3c 7f a0 51 23 50 bc 2d 86 79 94 03 5f 3c a8 4d f7 1d 9f d7 f9 b3 fa 7c e3 ba 31 39 e6
4c ec 21 82 f1 65 a0 c0 4e bd 90 f2 fa f6 18 4d 6f 9a bc 2f 6f 20 13 a1 94 93 2c 2f 5a 8d 24

AMLDX_v2.13.1.4_release.zip:

c9 cf 83 b6 05 e9 bf 76 89 83 1e 64 6e fc 1a 86 37 2a e3 f5 be 36 2e 9e d7 61 11 25 cc 95 03 f2 17
d8 16 c3 f1 46 44 51 70 6c dc 61 b0 51 89 9c 5b 71 e4 71 85 6e 11 00 14 1a cb b9 f6 aa 07 6c

ACQ80 Solar pump control program

ISPDX_v2.15.0.6_release.zip:

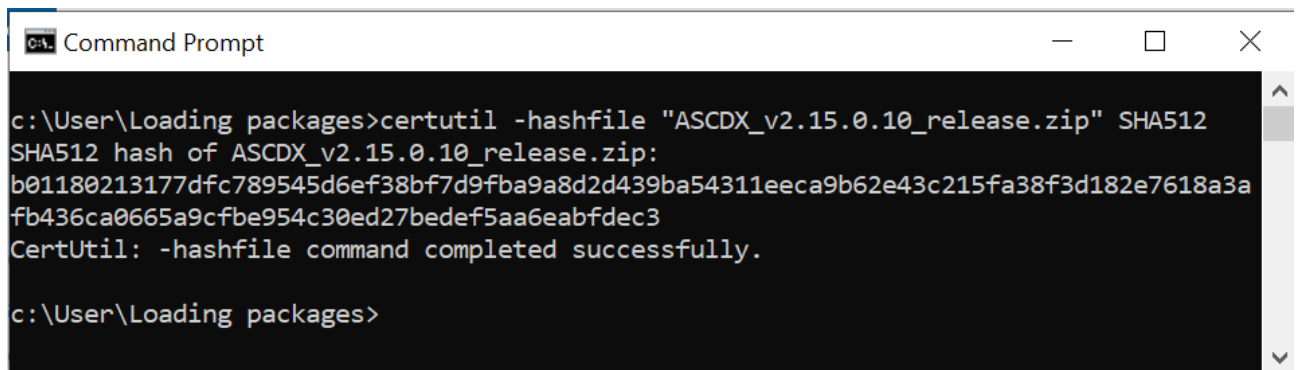
d6 ed 56 11 db f4 69 eb bf e8 cf 85 68 77 76 14 23 ff ac d0 1d 26 d1 03 42 cc af 2e 02 2e 84 af 88
7d 41 ea 96 c0 71 5a 14 da 9b a3 ee 98 c1 2b 5a 44 60 ea f7 56 f4 0a 81 ac 70 09 62 82 ab e0

Instructions

To verify integrity of firmware downloaded eg. from IHMM, following additional steps are recommended. The purpose of integrity verification is to ensure that local copy of release zip file is consistent with zip file originally released by ABB.

Please note, that when downloading a loading package file from IHMM, its name may include also some additional data e.g. ASCDX_v2.15.0.10_release.zip in this document is actually ASCDX_v2.15.0.10_release_3AXD10001467776_A.zip when downloaded from IHMM. However, this does not change the checksum.

- SHA-512 checksum consist of 64 bytes of hexadecimal values.
- Calculate SHA-512 checksum of your local copy of release zip file (e.g. ASCDX_v2.15.0.10_release.zip) using windows command prompt (tool is a standard Windows tool)
- Open windows command prompt by typing "cmd" to windows search and pressing enter
- Go to directory containing your local copy of release zip file, program itself is part Windows operating system
- Give following command to re-calculate SHA-512 checksum
certutil -hashfile "<releasezipfile>" SHA512 (the checksum in the snapshot below is an example only)



```
Command Prompt
c:\User>Loading packages>certutil -hashfile "ASCDX_v2.15.0.10_release.zip" SHA512
SHA512 hash of ASCDX_v2.15.0.10_release.zip:
b01180213177dfc789545d6ef38bf7d9fba9a8d2d439ba54311eeca9b62e43c215fa38f3d182e7618a3a
fb436ca0665a9cfbe954c30ed27bedef5aa6eabfdec3
CertUtil: -hashfile command completed successfully.
c:\User>Loading packages>
```

Example:

```
certutil -hashfile "ASCDX_v2.15.0.10_release.zip" SHA512
```

Compare calculated checksum to checksum obtained from ABB library (this document) and proceed further in firmware download procedure if checksums are matching.