

MEDIUM VOLTAGE AC DRIVES

SHA-512 checksum summary

For ACS5000 / ACS6080 / ACS8080

LAAAB 5.10.0

ACS5000_LAAAB_5.10.0_LAEAA_2.07.0.68.zip	4cfd148d0d79099ce78c5b16cfe5c8bf3beb95820ab 82a8406c2dd8da675dca47cd8abf89d0c3fa38e9649 6e3af615da4eedc643edade0d38665b1b82cdf602f
ACS6080_LAAAB_5.10.0_LAEAA_2.07.0.68.zip	b39593199fb3ea6b8af80709a06c3d717aa5cf14a21 ae32071ecb7b6636e7bca15d4cc7f851af639766900 53dd0435154a11cc7ed0a2febb6d509b371b5590e0
ACS8080_LAAAB_5.10.0_MAEAA_1.12.0.145.zip	2e2e19575f64c31e508113872cdb4c1ca27488a7f9d bf28bcf8fd0739b5badec54ec1a144aa75e67c8c8fd a1c4b2d88386b82cde7e947df7dc845cf560433ec5
OPC UA stack open62541 commit hash used	8d03e5d8878c6290edfc921eb21f15c12ee934fe

LAAAB 5.09.2

ACS5000_LAAAB_5.09.2_LAEAA_2.05.0.66.zip	c47fa7a46b19a51302e7c07320dd723855f76e8db30 156a6098225d976785ca8d910275638a8af86eae31 a831adb360262f8da9abf074b8bf5006dd68c85e5a
ACS6080_LAAAB_5.09.2_LAEAA_2.05.0.66.zip	8f3c72bb4aaa09717a2162af95b8f5afcaa728e884f 25236ed9f31b049eef76562b4708d86b2457c8f1e92 735887cac6655c1f73bce24158ae5fa64a72f7d27c
ACS8080_LAAAB_5.09.2_MAEAA_1.11.0.143.zip	673f0c0c308ad976565c1cd4aba821f48c911b5083c c44365d13c5d70c191990bbe499257a15539348271b 9735279e3de6701e6560c59be3fccf992106fcab10
OPC UA stack open62541 commit hash used	8d03e5d8878c6290edfc921eb21f15c12ee934fe

LAAAB 5.09.1

ACS8080_LAAAB_5.09.1_LP_FirmwareInit.lp	83d18fb91a31f557a6899039b8da6cb33c0fc10c371 64d85c5c07096489966f0fe1abe6f2c0cdd49d234fd 10cca22b3a96bb3bd250d14446f7f6b2e7da304acd
OPC UA stack open62541 commit hash used	8d03e5d8878c6290edfc921eb21f15c12ee934fe

LAAAB 5.09.0

ACS5000_LAAAB_5.09.0_LAEAA_2.05.0.66.zip	57bc216fc814f4de20d186257b6654e731065f5c18c 6ffad580096a7a78b320dc2d5913927486b413a524c e987d6d6cc75cb43d4fd68fd387acf5afb197e123
ACS6080_LAAAB_5.09.0_LAEAA_2.05.0.66.zip	5f5d568c6312cbfacbfff4c5865c3208206099deafbe 896ceffd9be08c3b9eeab7e52f80863ed281005f584 595cb75e319841b64aee10d39d4150eeaa59dbd8c0
ACS8080_LAAAB_5.09.0_MAEAA_1.11.0.143.zip	2bfe501d2dd1b336d4d0fcbb7fbb7911bd828bd7036 af9b9dbb83809934d2cb7aba69a58756970eace0dfe d6ddc9571a06b0bdb9f52b7425996c30c41966dae6
OPC UA stack open62541 commit hash used	8d03e5d8878c6290edfc921eb21f15c12ee934fe

LAAAB 5.08.3

ACS5000_LAAAB_5.08.3_LAEAA_2.05.0.66.zip	926b4733c69116b654a543dab72c3c0ebdb8d6d55f6 e7064747897278b56e234e37b824149cf27336cef8e d42d939ad7ec680f8fef0dccce8ef9ccfd6c51bbac
ACS6080_LAAAB_5.08.3_LAEAA_2.05.0.66.zip	4dd46bc4f19b108113c55fc2b739bac18ef724e61dd b75a7a1253856e730e3d5399f46945d4c380a1ada75 5a1f4d0661c9de3b18415cf226af00128882a6d4ca
ACS8080_LAAAB_5.08.3_MAEAA_1.11.0.143.zip	66ffd200bfacf20bd25d148792bbd4d90f9804fbc18 e020a6ef5c87e9190432c349f37a7dc654602cf4bce 28e0b4658484cb6488238faafb444349d76d847c67
OPC UA stack open62541 commit hash used	a1e54543af22af03954f5b1297cd60e68a0743f4

LAAAB 5.08.2

ACS6080_LAAAB_5.08.2_LAEAA_2.05.0.71.zip	7e33955e89e15b8e00d23c31a0f24b8033428e05338 9fd58fedb441cfed1e57691d59015c46b2dc47e86a7 a3d2ca4a8f92d58e7324319fef05b8f2bc782c885
OPC UA stack open62541 commit hash used	a1e54543af22af03954f5b1297cd60e68a0743f4

LAAAB 5.08.1

ACS5000_LAAAB_5.08.1_LAEAA_2.05.0.66.zip	5345920fda4bdf866bd403f92b11b1ff1caa8bfb2f0 5553c988c34cf21dac376d709c31f067fc8b857eb84 111235062ba3ff59a0717bcaca8650224e7e7f44a7
ACS6080_LAAAB_5.08.1_LAEAA_2.05.0.66.zip	64aa09c059c4cf4030efb7d56a18ece41c5ea2b03b5 cd64420ec0df0665d9955ad83ba513b575dae8eff60 ac3eff69f7c5d04fefb6801ca5a8965de909a1df64
ACS8080_LAAAB_5.08.1_MAEAA_1.11.0.143.zip	1f6d8beebef0f97fc3d70a026e7b2f2241de97d6eca a2484854ced7caa7b6b39a03dd28aa4249bea1552ce 516be6e6cc87a01e548c1eec8e8671af5b3a87125a
OPC UA stack open62541 commit hash used	a1e54543af22af03954f5b1297cd60e68a0743f4

LAAAB 5.08.0

ACS5000_LAAAB_5.08.0_LAEAA_2.05.0.66.zip	93676517c3a886bff177d63d08bc563794faacb57fb 5e79369b5a9251d2296c30e24eff8ab71124bcd2cd6 dadf8ae08ac2f7beecd66404f2e57d9529126f76d2
ACS6080_LAAAB_5.08.0_LAEAA_2.05.0.66.zip	12ad1ed96e18723aaf596a2a89226f9aa9c9e39276d 22849e4c0e3843d846e5015db866669db6f90e6eb2a ad8a2b5a8fb57be6fb8545ec44312888fd52a66064
ACS8080_LAAAB_5.08.0_MAEAA_1.11.0.143.zip	277f9eaa7b61b924f9a74deebfef30b444e71b2b514 6b1f9cba1f56e90474dfbc200bb0c08abaa25f69b0b 7254642d3e7bd4176f585348e02241bab9ad6b0f3d
OPC UA stack open62541 commit hash used	a1e54543af22af03954f5b1297cd60e68a0743f4

LAAAB 5.08.0

ACS5000_LAAAB_5.08.0_LAEAA_2.05.0.66.zip	93676517c3a886bfff177d63d08bc563794faacb57fb 5e79369b5a9251d2296c30e24eff8ab71124bcd2cd6 dadf8ae08ac2f7beecd66404f2e57d9529126f76d2
ACS6080_LAAAB_5.08.0_LAEAA_2.05.0.66.zip	12ad1ed96e18723aaf596a2a89226f9aa9c9e39276d 22849e4c0e3843d846e5015db866669db6f90e6eb2a ad8a2b5a8fb57be6fb8545ec44312888fd52a66064
ACS8080_LAAAB_5.08.0_MAEAA_1.11.0.143.zip	277f9eaa7b61b924f9a74deebfef30b444e71b2b514 6b1f9cba1f56e90474dfbc200bb0c08abaa25f69b0b 7254642d3e7bd4176f585348e02241bab9ad6b0f3d
OPC UA stack open62541 commit hash used	a1e54543af22af03954f5b1297cd60e68a0743f4

LAAAB 5.07.3

ACS5000_LAAAB_5.07.3_LAEAA_2.05.0.66.zip	bf20bc883dee0a793c6a99b66f5382047963338b674 892c330783b2af8679262914aeaccb0e6d8245d4c7b bc6a42c3212e77101d0412d3e4a6a22c4401743a45
ACS6080_LAAAB_5.07.3_LAEAA_2.05.0.66.zip	c62dfc3472d1b8342ba471719fda3d7304f23db5fae b9af13fb64fc2c04fd93a536707b3f60bd568d7c86b ffc4c9b8b67a1948d1f98e595d3deaf03ecb2ef6d8
ACS8080_LAAAB_5.07.3_MAEAA_1.11.0.140.zip	0332d981583cfbaf550468dc79bd39b4fb389b0edc0 b22296f1fb1c82279094c8471f9a73e3156a9d07d9f 9cdc43f124dce194d237788945974731e4f3934445
OPC UA stack open62541 commit hash used	a1e54543af22af03954f5b1297cd60e68a0743f4

LAAAB 5.07.2

ACS5000_LAAAB_5.07.2_LAEAA_2.05.0.66.zip	ef7788774e42c68c6cd5f6ae556c0c1a83b111007b7 7777a161ddcbcb36bef3562b66cbc54c382523bb98e d111093ab87d220bd2b191d6b9d207083c714fab4d
ACS6080_LAAAB_5.07.2_LAEAA_2.05.0.66.zip	de60c895cbd95f52dea685386dd34a92e8c1b9d1361 09edb519f79c4015535cee8d414de05231693ab19cf eb1cafa7dc4a18eb7eebc4e1af57c188b46ecb1e1b
ACS8080_LAAAB_5.07.2_MAEAA_1.11.0.140.zip	5a1f137ad2c51d13c9a83384eba49c4ff0d83c6435d bc201c4a5298731fb1162a7615018a607c33910ea0e 45f5867aace8304d37e624f71d81a2f7b058c10740
OPC UA stack open62541 commit hash used	a1e54543af22af03954f5b1297cd60e68a0743f4

LAAAB 5.06.0

ACS5000_LAAAB_5.06.0_LAEAA_2.05.0.64.zip	0781d0d5256701daac78edd63ccacae129576faf441 a0d9a84a7a2f140fda079d8c74ea8fa1870d147f694 660deb025c0edff65d51e49f83c8ab9d8a33d27d15
ACS6080_LAAAB_5.06.0_LAEAA_2.05.0.64.zip	7806be0b9473c5a43e2fee2f642d86d33b9d524f0fa 471f3f3b01133bf096cf4c8bc6d208d81cf78f61db5 cc542e732c85554a5568320e3d429c157a764a634d
ACS8080_LAAAB_5.06.0_MAEAA_1.10.0.130.zip	00bade4b396161e848f53badc1dca41a3936b11c9c7 9f428f4cd076ed58f37a4ee59948dc5b966e6cef700 4a78743f464a3b9721cab628cb01d659b2f7f46b7e
OPC UA stack open62541 commit hash used	be12407a03c79a3e56b9694d91e1b9b5ff9101b4

LAAAB 5.05.5

ACS5000_LAAAB_5.05.0_LAEAA_2.05.0.64.zip	1962c138bc40a52c3b0f3e2b6310e45dfbd8e8e17c3 5d7c47a5bb4497c35a70fb7d1c4ab75ee49ca36355d 34855254a733842d4d98c805a845db656caea052a3
ACS6080_LAAAB_5.05.0_LAEAA_2.05.0.64.zip	607c8a3793c6b0647e91200049bfec65055b59a3b61 4247da0657c0f62a029ec056e660e73fd24f054e296 83bc0624dd80f9a545ef2d72ef8805ab6e58ba64df
ACS8080_LAAAB_5.05.0_MAEAA_1.10.0.130.zip	245e96757d2d65b64956c881fdf7193e55ed8f8d936 8b2d9c2bd87b998851bdac06af978a22396fbdd13dc 3b5f493d07d9982965437bf0ae12ec26f2c7a2ffc9
OPC UA stack open62541 commit hash used	be12407a03c79a3e56b9694d91e1b9b5ff9101b4

LAAAB 5.04.3

ACS5000_LAAAB_5.04.3_LAEAA_2.04.0.61.zip	4cf578c8622424f2ad4761bffd6827e109e130655f8 1ea744188b0029615abc60369b2ec913c45765c3590 99404cc9e7c55e2d18f8b41fef155b5503cd83f669
ACS6080_LAAAB_5.04.3_LAEAA_2.04.0.61.zip	7c271c31d50c8dc4e142861b8d2c83febf5ad4b37f bca0343ec1dbdd7cfc70418dd1d04d93d6cbc3db8b8 79cb3540103330e51828dc20172aeb7ae980ac36e1
ACS8080_LAAAB_5.04.3_MAEAA_1.9.0.123.zip	dc29aedc0802514bc42632a1e668938528a5a5e28d7 1ba15994f027223da0d406d6455856bf092d23fc10d 7b4bc5924b7fca411e92968f56bd7ecd4031373d6b

OPC UA stack open62541 commit hash used	be12407a03c79a3e56b9694d91e1b9b5ff9101b4
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LAAAB 5.04.0

ACS5000_LAAAB_5.04.0_LAEAA_2.04.0.61.zip	aa54ed7e733d4f9ef86f131a7209695b40eece9072 515ea25ac5b1b2cd80c35811684de81ea0e13dc4edd e9cdf73850914785a7f94240711f31629841d97675
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ACS6080_LAAAB_5.04.0_LAEAA_2.04.0.61.zip	79466407cbc647172826d735474ea7f66a1557f4892 b810cd0abc259fe024376af23c3dbc0fd4818908c9c a27de2fcde2b43693008160b3cb0462a2d74809781
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ACS8080_LAAAB_5.04.0_MAEAA_1.9.0.123.zip	6d5d64fe37b957bad383638d85fb2b4b6f696316362 1cfb00030c7dd072a85c9be87a2203704063072818e cc8a7753be4acfdb0f0af5c5d82885df160b270971
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OPC UA stack open62541 commit hash used	be12407a03c79a3e56b9694d91e1b9b5ff9101b4
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LAAAB 5.03.0

ACS5000_LAAAB_5.03.0_LAEAA_2.04.0.60.zip	7efffeff4b0fad84f75e806170b73b9a6e853a5908e afad02e757cedd8e03eb213f6c6f404a6fb26454cc9 efa0e6f10520c5a0786b1efeabd411889a696d379d
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ACS6080_LAAAB_5.03.0_LAEAA_2.04.0.60.zip	668325a53825865cb1108cbcced66e6392627e74ea6 c36b1f7a8ce2f282d8925a236dce8326763e9443a69 6452d7c875fe1ae1a2f7b6300ff0b4287543363896
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ACS8080_LAAAB_5.03.0_MAEAA_1.9.0.121.zip	c83d46a7879e0ae02374eb43a7921f488ca93195a84 8115b8fe8f04c1deeaaf2dcb9ac20ead4e10f1cdba2 d9827f70b406e448420375aee1245b85d65eff6aaa
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OPC UA stack open62541 commit hash used	be12407a03c79a3e56b9694d91e1b9b5ff9101b4
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LAAAB 5.01.1

ACS5000_LAAAB_5.01.1_LAEAA_2.04.0.58.zip	4be50fb1d4407dd8a49865df2ea24a1be17764ca8d5 ece72a74b9774ccbd5ea6ab37df9c2feb0b8fabcc5a 5f3a3cf67e2f1263d53cd8b66bf60ece7ca0e5515a
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ACS6080_LAAAB_5.01.1_LAEAA_2.04.0.58.zip	6575c961e051b0b4fe5fe8c0f8b87ddb8ced7b83c46 b727c66f3fb418e785440580ce1fc66bee829b8e1de f5c1a2a92edfbc4580a57bc1ce6a8b02a3c290739a
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ACS8080_LAAAB_5.01.1_MAEAA_1.9.0.121.zip	13c0478c654c6415e99030e17e19ae1d946590d9bee 88cfde8e6ccf30aa30d63bb7d4f8f642dfb7ee5b2b3 6811b2d90f10af7e1aeabbf9fb08e549c0cc7b1b9f
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LAAAB 4.06.2

ACS5000_LAAAB_4.06.2_LAEAA_2.03.0.52.zip	d1eb83c4c58aeed615392a476a82eaccc259e592be7 89eb6a5f02e11780e29540ba6e4c6903d5c33ef6b8a 74ec63a885b54703389028e614ed3943b806b4f9d0
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ACS6080_LAAAB_4.06.2_LAEAA_2.03.0.52.zip	56a8ba6ec35ad476d68c0902d89a74590cd17e25dd7 93109e5610cb9b113560ca12f666c8516e791536d0a 68d89bb5a0bf3c3a76851b5cbef8e1652187b924ce
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ACS8080_LAAAB_4.06.2_MAEAA_1.9.0.118.zip	c896c4578d01b10a1d4516f97ce3c5110f815ac205e e5f44fdf4f962d8a4076cb4c831386385ae7aa574e0 b6cd1cc30ed268e10537ef3850f3fabdef189b385c
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LAAAB 4.06.1

ACS5000_LAAAB_4.06.1_LAEAA_2.03.0.51.zip	b9bbd854d948fc39a96e68ac7c8d09cd11c9633f233 a5515432579c5e2e338f0becd05c032c39185a1e63e 6c599cd88954c830660f3c36de78ae078ff337b583
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ACS6080_LAAAB_4.06.1_LAEAA_2.03.0.51.zip	d2c0d5b50b6d118a077ec15d5345a066e76f7a7730b 34e5d04057720aba2a6bb79a876c38c054f584a508a 93fb249110508cc8e154dca9437cdc64eeeca712b2
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ACS8080_LAAAB_4.06.1_MAEAA_1.9.0.117.zip	068bf32d531788d8b40cc38a0b0fb73e988cf5fe2ce c9d129395aa5ec67be54eabd46df10f76e43c9b4352 172ffa40ed56a5c1946d86b7072a8250b64ea37e1
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LAAAB 4.06.0

ACS5000_LAAAB_4.06.0_LAEAA_2.03.0.51.zip	bd02a3542d3f1c5dcc946df8831683ac940630e2ad1 9a43a05a721d67239fc2d8c665d9ac771c6829c3e6f 84c11b332e1d31f1d691df5781caa3c91cfd3b54cb
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ACS6080_LAAAB_4.06.0_LAEAA_2.03.0.51.zip	e644a3d74688e6ca3e00966208c3cb8aaddcb35ad89 3875f87f61064a6ed7a369f7b28de4d61bee531d49e 2e108101bb48a79455364afcb361d87868895b6a0f
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ACS8080_LAAAB_4.06.0_MAEAA_1.9.0.117.zip	ed4ea7a8206aa2875936c3b15f85c2bf863e998f4fb 3b0f8986df435e1ad1d804ee6864cf01b12a17054c3 f07812314d0811f8e815d1d53be54c1ea048bdd1c
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LAAAB 4.04.1

ACS5000_LAAAB_4.04.1_LAEAA_2.03.0.51.zip	feca0374a1451b67bd00344f8ff2e7c8277c6af248b 46650bf6205e323e2ca41b116f070e538747a5d1cbb 16a2026861e1fea290df08799fe7823b2999dee007
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ACS6080_LAAAB_4.04.1_LAEAA_2.03.0.51.zip	760e05903d0b17acba9ff877bed33e59a42ea720c07a 643bf9e2897d59e06736c112db0de2cd6ac15fe5470 4fedbbd5703c9e523f8d096a91ba1a4d1b9df4f3b3
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ACS8080_LAAAB_4.04.1_MAEAA_1.09.0.117.zip	f49875882e96105aa24a99bd0ddc2c85db9563b3011 06c8f54f352495eaffefebef3e61a51192d8f43fc0a0c 0e5e96f90aaf036d8efbc9664c236b0e1ccc2f1431
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LAAAB 4.04.0

ACS5000_LAAAB_4.04.0_LAEAA_2.03.0.51.zip	13ec4b771593f0da5dca40b9c98f222803bee317eb2 4012d8d49a06a7c5db4cfc04ab70f51ec768c33c279 3b36aad4aae875149d28b029965bc528377efb14db
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ACS6080_LAAAB_4.04.0_LAEAA_2.03.0.51.zip	a7f73fa4a7f3fac0ae41ff78e42ba0855c4bbb95f34 dc0f74a41397d8942e244fd7ca432533ba7f445e652 2382fff2bd314b9b28aa81e3afa12ab528a50fab38
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ACS8080_LAAAB_4.04.0_MAEAA_1.09.0.117.zip	de6e479d47ccfdcf4a53e527633850478f1d5c40cea 21cf63707f37133a913072b7e8a2f96659f15393dcf edee849327b6cc1f6666f238353c6abcc427793015
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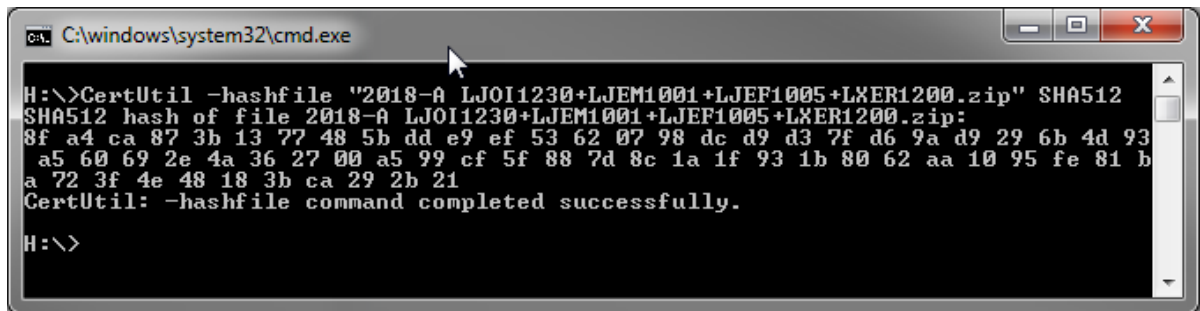
Instructions

To verify that the local copy of a software loading package ZIP file, is consistent with the package that was released by ABB, ABB recommends recalculating the SHA-512 checksum of the local zip file. The SHA-512 checksum consists of 64 bytes of hexadecimal values.

1. Click the Start button, type "cmd" in the search box, and then press Enter.
2. Go to the folder that contains the local copy of the release zip file and then type the following command to recalculate the SHA-512 checksum:

```
certutil -hashfile <releasezipfile> SHA512
```

Note: The checksum in the following image is only an example.



```

C:\windows\system32\cmd.exe

H:\>CertUtil -hashfile "2018-A LJOI1230+LJEM1001+LJEF1005+LXER1200.zip" SHA512
SHA512 hash of file 2018-A LJOI1230+LJEM1001+LJEF1005+LXER1200.zip:
8f a4 ca 87 3b 13 77 48 5b dd e9 ef 53 62 07 98 dc d9 d3 7f d6 9a d9 29 6b 4d 93
a5 60 69 2e 4a 36 27 00 a5 99 cf 5f 88 7d 8c 1a 1f 93 1b 80 62 aa 10 95 fe 81 b
a 72 3f 4e 48 18 3b ca 29 2b 21
CertUtil: -hashfile command completed successfully.

H:\>
  
```

3. Compare the calculated checksum to the checksum that was obtained from the ABB library (this document) and if they match, continue with the firmware download procedure.

Open-source software components

The binary distribution of this firmware uses the following open-source components:

Component	Copyright	License
open62541	Copyright © 2014, Fraunhofer IOSB et al.	MPL2
Arduino JSON	Copyright © 2014, Benoit BLANCHON	MIT
ETL	Copyright © 2016, jwellbelove	MIT
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