

# Fedora and EPEL updates for various AWS C lib packages

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**description:** Nine AWS C lib Fedora and EPEL packages I maintain received updates today.  
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Among the [Fedora and EPEL packages I maintain](#) are 11 AWS C lib packages. I wrote some time ago [about there function and challenge to package them](#). Today 9 of those packages received updates to the latest available release. 2 are pending because of dependencies, but I should get them through the door within the next 2-3 weeks as well.

The majority went smoothly, no breaking changes, minor bug fixes, sometimes a patch that had to be updated. But `aws-c-cal` required a bit more work. Whenever tests are available, I run them as part of the package build. And they started to fail when I wanted to update the package:

```
98% tests passed, 3 tests failed out of 137
Total Test time (real) = 3.58 sec
The following tests FAILED:
 66 - rsa_signing_roundtrip_pkcs1_sha1_from_user (Failed)
 71 - rsa_verify_signing_pkcs1_sha1 (Failed)
 77 - rsa_signing_mismatch_pkcs1_sha1 (Failed)
Errors while running CTest
```

The `sha1` in the test name lead me pretty fast to the problem. In version `0.8.1` there was some `SHA1` related code and tests added:

- <https://github.com/aws-labs/aws-c-cal/releases/tag/v0.8.1>
- <https://github.com/aws-labs/aws-c-cal/pull/201>

I can only assume it's for backward compatibility reasons. The thing is, `SHA1` is distrusted in [Fedora 41](#) (Archive: [\[1\]](#), [\[2\]](#)) and [RHEL 9](#) (Archive: [\[1\]](#), [\[2\]](#)).

The code provides additional functionality and will not be called on systems that don't use `SHA1` anymore. So the fastest way forward was to patch out the three failing tests and call it a day.

```
diff --git a/tests/CMakeLists.txt b/tests/CMakeLists.txt
index 346e38a..e3966cb 100644
--- a/tests/CMakeLists.txt
+++ b/tests/CMakeLists.txt
@@ -77,18 +77,15 @@ add_test_case(rsa_encryption_roundtrip_oaep_sha256_from_user)
add_test_case(rsa_encryption_roundtrip_oaep_sha512_from_user)
add_test_case(rsa_signing_roundtrip_pkcs1_sha256_from_user)
add_test_case(rsa_signing_roundtrip_pss_sha256_from_user)
- add_test_case(rsa_signing_roundtrip_pkcs1_sha1_from_user)
add_test_case(rsa_getters)
add_test_case(rsa_private_pkcs1_der_parsing)
```

```
add_test_case(rsa_public_pkcs1_der_parsing)
add_test_case(rsa_verify_signing_pkcs1_sha256)
-add_test_case(rsa_verify_signing_pkcs1_shal)
add_test_case(rsa_verify_signing_pss_sha256)
add_test_case(rsa_decrypt_pkcs1)
add_test_case(rsa_decrypt_oaep256)
add_test_case(rsa_decrypt_oaep512)
add_test_case(rsa_signing_mismatch_pkcs1_sha256)
-add_test_case(rsa_signing_mismatch_pkcs1_shal)

add_test_case(aes_cbc_NIST_CBCGFSbox256_case_1)
add_test_case(aes_cbc_NIST_CBCVarKey256_case_254)
```

An Overview of all updates today, available in [Rawhide](#) (F42) latest tomorrow. Around one week till they arrive in all stable Fedora and EPEL branches.

- [aws-c-cal](#), [0.7.4 to 0.8.1](#)
- [aws-c-mqtt](#), [0.10.6 to 0.11.0](#)
- [aws-checksums](#), [0.1.20 to 0.2.2](#)
- [aws-c-auth](#), [0.7.31 to 0.8.0](#)
- [s2n-tls](#), [1.5.3 to 1.5.9](#)
- [aws-c-sdkutils](#) [0.1.19 to 0.2.1](#)
- [aws-c-event-stream](#) [0.4.3 to 0.5.0](#)
- [aws-c-compression](#) [0.2.19 to 0.3.0](#)
- [aws-c-common](#) [0.9.28 to 0.10.3](#)

Pending are the updates for [aws-c-io](#) and [aws-c-http](#). For [Rawhide](#) that's a matter of a couple days. Stable Fedora and EPEL branches going to take a bit longer, probably 2-3 weeks.