

eas verifying a store

To ensure, that the files are not changed, a verification can be executed on a store. The verification checks,

- if all records listed in the registry are available in the repository
- if all signatures of the records match the record and its attachments by
 - checking the hash values in the signature
 - checking the signature value in the record signature

For technical checks of a stores index and registry, see also the tool [eas-check](#).

Executing the verification

The verification can be executed using the [eas](#). In a case of a successful verification the output looks like this:

```
# eas -c /path/to/store.ini --verify -v
[ 1] Starting verify ...
[ 2] Verified 11 / 11 files (100.0 %)
[ 3] Finished verify
[ 3] Elapsed time 0.6 s
[ 4] No invalid signatures detected
```

In case of a changed record, an exception will be thrown:

```
# eas -c /path/to/store.ini --verify -v
[ 1] Starting verify ...
[ 2] Verified 11 / 11 files (100.0 %)
Otris Exception Output
Type:      struct boost::wrapexcept<struct otris::store::SignatureException>
File:      D:\jenkins\workspace\EAS-Develop-Windows-Build-VC16\label\EAS-Windows-
Build-VC16\Core\src\otris\eas\store\Signatory.cpp at line 626
Function: void __cdecl otris::store::Signatory::SignatureXmlHandler::check(void)

I0:        Filename="dso:2020/12/8/14/4315b631-80c4-4b2a-b475-b56d2f4bb90f/4315b631-80c4-4b2a-
b475-b56d2f4bb90f.xml"
Info:      Message="Checksum mismatch for a reference!"
```

Boost Diagnostic Information

```
D:\jenkins\workspace\EAS-Develop-Windows-Build-VC16\label\EAS-Windows-Build-VC16\Core\src\otris\eas\store\Signatory.cpp(626): Throw in function void __cdecl
otris::store::Signatory::SignatureXmlHandler::check(void)
Dynamic exception type: struct boost::wrapexcept<struct otris::store::SignatureException>
std::exception::what: Unknown exception
[struct otris::tag_file_name * __ptr64] = dso:2020/12/8/14/4315b631-80c4-4b2a-b475-
b56d2f4bb90f/4315b631-80c4-4b2a-b475-b56d2f4bb90f.xml
[struct otris::tag_message * __ptr64] = Checksum mismatch for a reference!
```

A report file can be also created. It will be written to the standard output as CSV file:

```
# eas -c /path/to/store.ini --verify-report > verify.csv
```

The CSV file has the following structure:

- Full path to the signature file
- Error message
- Path to the invalid record in the store

```
"d:\tmp\worm\store1\ARCHIVE\2020/12/8/14/4315b631-80c4-4b2a-b475-b56d2f4bb90f\4315b631-80c4-
4b2a-b475-b56d2f4bb90f.xmlsig";"Checksum mismatch! A refered file was
changed!";"dso:2020/12/8/14/4315b631-80c4-4b2a-b475-b56d2f4bb90f/4315b631-80c4-4b2a-b475-
b56d2f4bb90f.xml"
```

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