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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'SSL_COMP_add_compression_method(3oss)' command

`$ man SSL_COMP_add_compression_method.3oss`

`SSL_COMP_ADD_COMPRESSION_METHOD(3oss)`
`OpenSSL_COMP_ADD_COMPRESSION_METHOD(3oss)`

NAME

SSL_COMP_add_compression_method, SSL_COMP_get_compression_methods,
SSL_COMP_get0_name, SSL_COMP_get_id, SSL_COMP_free_compression_methods
- handle SSL/TLS integrated compression methods

SYNOPSIS

```
#include <openssl/ssl.h>
```

```
int SSL_COMP_add_compression_method(int id, COMP_METHOD *cm);  
STACK_OF(SSL_COMP) *SSL_COMP_get_compression_methods(void);  
const char *SSL_COMP_get0_name(const SSL_COMP *comp);  
int SSL_COMP_get_id(const SSL_COMP *comp);
```

The following function has been deprecated since OpenSSL 1.1.0, and can be hidden entirely by defining `OPENSSL_API_COMPAT` with a suitable version value, see `openssl_user_macros(7)`:

```
void SSL_COMP_free_compression_methods(void);
```

DESCRIPTION

`SSL_COMP_add_compression_method()` adds the compression method `cm` with

the identifier `id` to the list of available compression methods. This list is globally maintained for all SSL operations within this application. It cannot be set for specific `SSL_CTX` or `SSL` objects.

`SSL_COMP_get_compression_methods()` returns a stack of all of the available compression methods or `NULL` on error.

`SSL_COMP_get0_name()` returns the name of the compression method `comp`.

`SSL_COMP_get_id()` returns the id of the compression method `comp`.

`SSL_COMP_free_compression_methods()` releases any resources acquired to maintain the internal table of compression methods.

NOTES

The TLS standard (or SSLv3) allows the integration of compression methods into the communication. The TLS RFC does however not specify compression methods or their corresponding identifiers, so there is currently no compatible way to integrate compression with unknown peers. It is therefore currently not recommended to integrate compression into applications. Applications for non-public use may agree on certain compression methods. Using different compression methods with the same identifier will lead to connection failure.

An OpenSSL client speaking a protocol that allows compression (SSLv3, TLSv1) will unconditionally send the list of all compression methods enabled with `SSL_COMP_add_compression_method()` to the server during the handshake. Unlike the mechanisms to set a cipher list, there is no method available to restrict the list of compression method on a per connection basis.

An OpenSSL server will match the identifiers listed by a client against its own compression methods and will unconditionally activate

compression when a matching identifier is found. There is no way to restrict the list of compression methods supported on a per connection basis.

If enabled during compilation, the OpenSSL library will have the `COMP_zlib()` compression method available.

RETURN VALUES

`SSL_COMP_add_compression_method()` may return the following values:

- 0 The operation succeeded.
- 1 The operation failed. Check the error queue to find out the reason.

`SSL_COMP_get_compression_methods()` returns the stack of compressions methods or `NULL` on error.

`SSL_COMP_get0_name()` returns the name of the compression method or `NULL` on error.

`SSL_COMP_get_id()` returns the name of the compression method or `-1` on error.

SEE ALSO

`ssl(7)`

HISTORY

The `SSL_COMP_free_compression_methods()` function was deprecated in OpenSSL 1.1.0. The `SSL_COMP_get0_name()` and `SSL_comp_get_id()` functions were added in OpenSSL 1.1.0d.

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3.0.7 2023-0SSL_COMP_ADD_COMPRESSION_METHOD(3ossl)