NAME

xfn_status_codes – descriptions of XFN status codes

DESCRIPTION

The result status of operations in the context interface and the attribute interface is encapsulated in an **FN_status_t** object. This object contains information about how the operation completed: whether an error occurred in performing the operation, if so what kind of error, and information localizing where the error occurred. In the case that the error occurred while resolving an XFN link, the status object contains additional information about that error.

The context status object consists of several items of information. One of them is the primary status code, describing the disposition of the operation. In the case that an error occurred while resolving an XFN link, the primary status code has the value **FN_E_LINK_ERROR,** and link status code describes the error that occurred while resolving the XFN link.

Both the primary status code and the link status code are values of type **unsigned int** that are drawn from the same set of meaningful values. XFN reserves the values **0** through **127** for standard meanings. Currently values and interpretations for the following codes are determined by XFN.

FN_SUCCESS The operation succeeded.

FN_E_ATTR_NO_PERMISSIONS The caller did not have permission to perform the attempted attribute operation.

FN_E_ATTR_VALUE_REQUIRED The operation attempted to create an attribute without a value, and the specific naming system does not allow this.

FN_E_AUTHENTICATION_FAILURE
The identity of the client principal could not be verified.

FN_E_COMMUNICATION_FAILURE
An error occurred in communicating with one of the contexts involved in the operation.

FN_E_CONFIGURATION_ERROR A problem was detected that indicated an error in the installation of the XFN implementation.

FN_E_CONTINUE The operation should be continued using the remaining name and the resolved reference returned in the status.

FN_E_CTX_NO_PERMISSION The client did not have permission to perform the operation.

FN_E_CTX_NOT_EMPTY (Applies only to **fn_ctx_destroy_subcontext( )**.) The naming system required that the context be empty before its destruction, and it was not empty.

FN_E_CTX_UNAVAILABLE Service could not be obtained from one of the contexts involved in the operation. This may be because the naming system is busy, or is not providing service. In some implementations this may not be distinguished from a communication failure.

FN_E_ILLEGAL_NAME
The name supplied to the operation was not a well-formed XFN composite name, or one of the component names was not well-formed according to the syntax of the naming system(s) involved in its resolution.

FN_E_E_INCOMPATIBLE_CODE_SETS
The operation involved character strings of incompatible code sets; or the supplied code set is not supported by the implementation.

FN_E_INSUFFICIENT_RESOURCES
Either the client or one of the involved contexts could not obtain sufficient resources (for example, memory, file descriptors, communication ports, stable media space, and so on.) to complete the operation successfully.

FN_E_INVALID_ATTR_IDENTIFIER
The attribute identifier was not in a format acceptable to the naming system, or its contents was not valid for the format specified for the identifier.

FN_E_INVALID_ATTR_VALUE
One of the values supplied was not in the appropriate form for the given attribute.

FN_E_INVALID_ENUM_HANDLE
The enumeration handle supplied was invalid, either because it was from another enumeration, or because an update operation occurred during the enumeration, or because of some other reason.

FN_E_INVALID_SYNTAX_ATTRS
The syntax attributes supplied are invalid or insufficient to fully specify the syntax.

FN_E_LINK_ERROR
There was an error encountered resolving an XFN link encountered during resolution of the supplied name.

FN_E_LINK_LOOP_LIMIT
A non-terminating loop (cycle) in the resolution can arise due to XFN links encountered during the resolution of a composite name. This code indicates either the definite detection of such a cycle, or that resolution exceeded an implementation-defined limit on the number of XFN links allowed for a single operation invoked by the caller.

FN_E_MALFORMED_LINK
A malformed link reference was encountered. For **fn_ctx_lookup_link( )**, the name supplied resolved to a reference that was not a link.

FN_E_MALFORMED_REFERENCE

A context object could not be constructed from the supplied reference, because the reference was not properly formed.

FN_E_NAME_IN_USE (Only for operations that bind names.) The supplied name was already in use.

FN_E_NAME_NOT_FOUND Resolution of the supplied composite name proceeded to a context in which the next atomic component of the name was not bound.

FN_E_NO_SUCH_ATTRIBUTE The object did not have an attribute with the given identifier.

FN_E_NO_SUPPORTED_ADDRESS
A context object could not be constructed from a particular reference. The reference contained no address type over which the context interface was supported.

FN_E_NOT_A_CONTEXT Either one of the intermediate atomic names did not name a context, and resolution could not proceed beyond this point, or the operation required that the caller supply the name of a context, and the name did not resolve to a reference for a context.

FN_E_OPERATION_NOT_SUPPORTED
The operation attempted is not supported.

FN_E_PARTIAL_RESULT The operation attempted is returning a partial result.

FN_E_SYNTAX_NOT_SUPPORTED
The syntax type specified is not supported.

FN_E_TOO_MANY_ATTR_VALUES
The operation attempted to associate more values with an attribute than the naming system supported.

FN_E_UNSPECIFIED_ERROR An error occurred that could not be classified by any of the other error codes.

FILES

#include <xfn/xfn.h>

SEE ALSO

FN_status_t(3N), **xfn**(3N)