Warning and Error Messages 6

Every KCMS C API function returns warning and error messages in a status code (in `KcsStatusId`) to indicate whether it executed successfully or, if it did not, why it failed. If a function successfully executes, it returns the `KCS_SUCCESS` status code. If a function is cancelled before its completion, it returns the `KCS_OPERATION_CANCELLED` status code. Any other returned status code indicates a problem. This chapter describes each warning and error message and provides information on localizing the messages.

The status codes are defined in `/usr/openwin/include/kcms/kcsstats.h`.

Warnings

A returned status code in the range `KCS_WARNINGS_START` to `KCS_WARNINGS_END` indicates a warning. Table 6-1 describes the warning constants that the C API functions return.

Table 6-1 Warning Codes

Enumerated Warning Constant	Description
`KCS_WARNINGS_START`	The beginning of the defined warnings.
`KCS_ATTR_LARGE_CT_SUPPLIED`	Attribute count supplied field was unexpectedly large.
`KCS_CANNOT_DEOPTIMIZE`	Original data not available so optimization cannot be changed.

Table 6-1 Warning Codes

Enumerated Warning Constant	Description
KCS_CANNOT_OPTIMIZE	This profile cannot be optimized.
KCS_OPERATION_CANCELLED	This operation was cancelled by the application's user.
KCS_SPEC_CMM_NOT_FOUND	Specified CMM was not found.
KCS_TRUNCATED	The buffer you supplied was too small. Therefore, the data in it was truncated.
KCS_WARNINGS_END	Marks end of KcsStatusId warnings currently defined.

Errors

A returned status code in the range KCS_ERRORS_START to KCS_ERRORS_END indicates a call error. Table 6-2 describes the error messages returned by the C API.

Table 6-2 Error Codes

Enumerated Error Constant	Description
General Failures:	
KCS_ERRORS_START	Beginning of errors.
KCS_NOT_AVAILABLE	KCMS has not been installed or is not available.
Memory:	
KCS_MEM_ALLOC_ERR	Memory allocation error.
OS:	
KCS_OS_ERR	General OS error.
IO:	
KCS_IO_READ_ERR	Read error.
KCS_IO_WRITE_ERR	Write error.
KCS_IO_SEEK_ERR	Seek error.

Table 6-2 Error Codes *(Continued)*

Enumerated Error Constant	Description
KCS_IO_UNKNOWN_TYPE_ERR	An unknown KcsProfileDesc type entry was found.
Solaris File	
KCS_SOLARIS_FILE_NOT_OPENED	Cannot open profile.
KCS_SOLARIS_FILE_RO	Cannot open profile for writing.
KCS_SOLARIS_FILE_LOCKED	Profile is locked by another process.
KCS_SOLARIS_FILE_NAME_NULL	Filename pointer is NULL.
X11 Profile:	
KCS_X11_DATA_NULL	Display or visual pointer is NULL.
KCS_X11_PROFILE_NOT_LOADED	Cannot load profile; may be locked or does not exist.
KCS_X11_PROFILE_RO	Remote X11 profiles are read only.
Profile:	
KCS_PROF_ID_BAD	Invalid profile ID.
KCS_PROF_FORMAT_BAD	Profile format error.
KCS_PROF_CT_EXCEEDS_PROF_LIST	Number of profiles on list is smaller than argument count.
KCS_PROF_INCOMPLETE	Incomplete profile specified.
KCS_PROF_NO_DATA_SUPPORT_4_REQUEST	
KCS_PROF_REQ_ATTRS_INCOMPLETE	
Attributes:	
KCS_ATTR_NAME_OUT_OF_RANGE	Specified attribute is out of range.
KCS_ATTR_TYPE_UNKNOWN	Attribute type supplied by user is not known.
KCS_ATTR_LOAD_FORMAT_INCORRECT	The format of the attribute does not match specifications upon loading.
KCS_ATTR_LOAD_FLOAT_ERR	Error interpreting a float upon loading.

Table 6-2 Error Codes *(Continued)*

Enumerated Error Constant	Description
KCS_ATTR_LOAD_INT_ERR	Error interpreting an integer upon loading.
KCS_ATTR_DATE_TIME_FORMAT	The format of the date time stamp does not match specifications.
KCS_ATTR_CT_ZERO_OR_NEG	The count supplied in KcsAttributeValue was zero or negative.
KCS_ATTR_READ_ONLY	Attempting to set an attribute that is read only.
Connection:	
KCS_CONNECT_FAILED	Pair of profiles could not be connected.
KCS_CONNECT_PRECISION_UNACCEPTABLE	Profile connect will result in unacceptable precision.
KCS_CONNECT_OPT_FORCED_DATA_LOSS	The last optimization forced the KCMS framework to remove some data necessary for this operation.
KCS_CONNECT_PROFILES_CT_ERR	The operation requires a different number of profiles in the list than supplied.
KCS_CONNECT_QUANT_MISMATCH	Mismatch between the quantization of a pair of profiles.
KCS_CONNECT_UNIMP_OP	Connect operation is unimplemented.
Validation:	
KCS_MISMATCHED_WHITEPOINTS	Profile white points did not match during validation.
KCS_MISMATCHED_BLACKPOINTS	Profile black points did not match during validation.
KCS_MISMATCHED_COLORSPACES	Profile color spaces did not match during validation.

Table 6-2 Error Codes *(Continued)*

Enumerated Error Constant	Description
KCS_MISMATCHED_DIMENSIONS	Profile dimensions did not match during validation.
KCS_MISMATCHED_VERSIONS	Profile versions did not match during validation.
Layout:	
KCS_LAYOUT_INVALID	Invalid pixel layout.
KCS_LAYOUT_UNSUPPORTED	Unsupported pixel layout.
KCS_LAYOUT_MISMATCH	Pixel layouts do not match profile input and output specifications.
Evaluation:	
KCS_EVAL_TOO_MANY_CHANNELS	More channels specified in the pixel layout structure than the profile supports.
KCS_EVAL_BUFFER_OVERFLOW	Caller's buffer too small.
KCS_EVAL_ONLY_ONE_OP_ALLOWED	KcsEvaluate only supports one operation at a time, (KcsForward).
Characterization/Calibration:	
KCS_CC_UPDATE_NEEDS_MORE_DATA	Data supplied is inadequate.
KCS_CC_UPDATE_INVALID_DATA	Data supplied is invalid.
KCS_CC_INCORRECT_COLOR_SPACE	Characterization/calibration data contains incorrect color space.
KCS_CC_NUM_COMPS_OUT_OF_RANGE	Characterization/calibration data contains incorrect number of I/O components.
KCS_CC_TOO_FEW_MEASUREMENTS	Not enough measurements to support calibrating or characterizing this device.
KCS_CC_TABLE_DATA_BAD	Table data is out of range.
KCS_CC_INCORRECT_DEV_TYPE	KcsAttributeDevType is incorrect.
KCS_CC_INCORRECT_ATTR_CLASS	KcsAttributeClass is incorrect.
KCS_CC_CANNOT_CAL_DEV_TYPE	Device type cannot be calibrated.

Table 6-2 Error Codes *(Continued)*

Enumerated Error Constant	Description
KCS_CC_CANNOT_CHAR_DEV_TYPE	Device type cannot be characterized.
KCS_CC_INPUT_NOT_RAMP	Currently data must be a ramp.
Color Management Module:	
KCS_CMM_RTLOAD_FAILED	Runtime loading of CMM failed.
KCS_CMM_MAJOR_VERSION_MISMATCH	Incompatible CMM major version number.
KCS_CMM_MINOR_VERSION_MISMATCH	Incompatible CMM minor version number.
KCS_CMM_UNKNOWN_TECHNOLOGY	CMM requested could not be found.
KCS_CMM_UNKNOWN_RUNTIME_TYPE	CMM associated with this profile could not be found.
KCS_CMM_UNSUPPORTED_OP	Operation not supported by this CMM.
Unimplemented Features:	
KCS_UNIMP_NESTED_CONNECTIONS	Currently, KCMS cannot handle nested connections.
KCS_UNIMP_TOO_MANY_PROFILES	Profile array contains too many profiles.
KCS_UNIMP_ILLEGAL_TECHNOLOGY	When connecting profiles, one CMM technology is incompatible with another CMM technology. (Very rare with standard ICC profile format.)
Internal:	
KCS_INTERNAL_CLASS_CORRUPTED	Internal error related to one of the KCMS classes.
KCS_INTERNAL_DATA_CORRUPTED	Internal error related to one of the KCMS data.
IO:	
KCS_HOSTNAME_ERROR	Host name unknown (not local or remote).

Localizing Status Messages

The KCMS library warning and error codes are internationalized. You can convert `KcsStatusId` into a text string with the `KcsGetLastError()` function (defined on page 73). Call the appropriate setup functions to convert a message to the appropriate language. A translation table must also exist. The translatable KCMS `.po` files are `kcs_strings.po` and `kcssolmsg_strings.po` located in `/openwin/lib/locale/C/LC_MESSAGES`.

See the following documentation for further information on accessing the translated message file:

- `setlocale`(3c)
- *Solaris Developer's Guide to Internationalization*

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