

Message Class 2004 - COBOL Wrapper

This section describes error messages which can occur in the COBOL Wrapper. All COBOL Wrapper messages are in message class 2004.

The messages have the format:

2004nnnn

where 2004 is the message class, and

nnnn is the message number in the range 0000 - 9999

Overview of Messages

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20040001 **Unbounded Arrays without maximum upper bounds not supported:**
 <library>/<program>/< parameter>/<index>

Explanation Unbounded arrays without maximum upper bounds are not supported. The appendix of the message gives you the library, program, parameter name and index definition of the IDL parameter causing the error.

Action Adapt your IDL accordingly and re-generate.

20040002 <idl-data-type> without maximum length not supported: <library>/<program>/<parameter>

Explanation The following IDL data types are not supported if no maximum length is given:

IDL Data Type	Description
BV	Binary variable length.
AV	Alphanumeric variable length.
KV	Kanji variable length.

The appendix of the message gives you the library, program and parameter name of the IDL parameter causing the error.

Action Adapt your IDL accordingly and re-generate.

20040003 Invalid CSECT name <CSECT-name> for target Compiler <compiler>: <library>/<program>

Explanation The program-name or program-alias in the IDL contains characters not allowed for CSECT names. The appendix of the message gives you the library and program of the IDL parameter causing the error.

Action Adapt your IDL accordingly and re-generate.

20040004 IDL data type <idl-data-type> not supported: <library>/<program>/<parameter>

Explanation The following IDL data types are not supported:

UV Unicode variable length

U Unicode

Action Adapt your IDL accordingly and re-generate your client and server interface objects.

20040005 Missing option TARGET - (BATCH_ZOS/BATCH_VSE/BATCH_BS2000/BATCH_I5OS/CICS_ZOS/CICS_VSE/IMS_MPP/IMS_BMP/MICROFOCUS_WINDOWS/MICROFOCUS_UNIX)

Explanation No option TARGET was specified during generation. TARGET is a required option.

Action Specify the option TARGET.

20040006 **Wrong option <target-option> for TARGET -
(BATCH_ZOS/BATCH_VSE/BATCH_BS2000/BATCH_I5OS/
CICS_ZOS/CICS_VSE/IMS_MPP/IMS_BMP/MICROFOCUS_WINDOWS/MICROFOCUS_UNIX)**

Explanation A wrong option TARGET was specified during generation. Valid targets are BATCH_ZOS, BATCH_VSE, BATCH_BS2000, BATCH_I5OS, CICS_ZOS, CICS_VSE, IMS_MPP, IMS_BMP, MICROFOCUS_WINDOWS and MICROFOCUS_UNIX.

Action Specify a correct option TARGET.

20040007 **Wrong option <literal-option> for LITERAL - (QUOTE/APOST)**

Explanation A wrong option LITERAL was specified during generation. Valid values for literal are QUOTE and APOST.

Action Specify a correct option LITERAL.

20040008 **Wrong option <comm-option> for COMM -
(LINKAGE/EXTERNAL/COPYBOOK)**

Explanation A wrong option COMM was specified during generation. Valid values for option COMM are LINKAGE, EXTERNAL and COPYBOOK.

Action Specify a correct option COMM.

20040009 **Wrong option <rpc_highest-option> for RPC_HIGHEST -
(1110/1120/1130/1140/2000/2020)**

Explanation A wrong option RPC_HIGHEST was specified during generation. Valid values for option RPC_HIGHEST are 1110, 1120, 1130, 1140, 2000 and 2020.

Action Specify a correct option RPC_HIGHEST.

20040010 **K/KV cannot be mapped to PIC G: <library>/<program>/<parameter>**

Explanation The IDL type K or KV (Kanji) was specified with an uneven length. This runs into conflict with COBOL data type GRAPHIC, which requires exactly half the length of IDL type K/KV.

For example, the IDL

```
1 MyKanji (K10)
```

corresponds to the COBOL

```
01 MyKanji PIC G(5) DISPLAY-1.
```

Action Correct your Software AG IDL file to contain an even length for IDL types K/KV.

20040011 Wrong option <option> for INTERFACE - (DFHCOMMAREA/DFHLBUFFER/DFHCHANNEL/LINKAGE)

Explanation A wrong value for the option INTERFACE is specified.

Action Specify a valid value for the option INTERFACE. See the error message or documentation for valid values.

20040012 Wrong option combination <interface>/<target> for INTERFACE/TARGET

Explanation Wrong values for the options INTERFACE and TARGET are specified.

Action Specify a valid combination for the options INTERFACE and TARGET. Refer to *Using the COBOL Wrapper in Command-line Mode* for valid combinations.

20040013 Server stubs required only for IMS

Explanation This is an internal error.

Action Contact Software AG.

20040014 Maximum length for CICS container name is 16 characters: <library>/<program>/<parameter>/<container>[text]

Explanation Container names are restricted to 16 characters by CICS. An optional text gives more information.

Action Depending on the situation:

- Shorten the structure name representing the container in the IDL to fit to this restriction.
- If variable number of containers are used with an IDL unbounded array (see `array-definition`) with maximum, restrict the number of containers.

See *CICS Channel Container IDL Rules*.

20040015 IDL not valid for CICS with channel container calling convention: <library>/<program>/<parameter>[text]

Explanation The IDL mapped to CICS programs with channel container calling convention may only contain IDL structures and IDL programs with references to this structures. An optional text gives more information.

See *CICS Channel Container IDL Rules*.

Action Correct your IDL and retry.

20040016 CICS container <container> already used for <direction> :
<library>/<program>/<parameter>

Explanation Container for CICS must be unique for input as well as for output. You cannot use them twice. In an IDL program an IDL structure, representing a container, is referenced twice for the same direction.

Action Correct your IDL and retry.

20040017 IDL requires RPC protocol <protocol> - downgrade not possible

Explanation Depending on the IDL types given in your IDL, a minimum RPC protocol version is required. You can upgrade it but never go beyond this lower limit.

Action Specify the RPC protocol version <protocol> and re-generate.

20040018 Sent length <length> exceeds 24580 DFHCOMMAREA length:
<library>/<program>

Explanation The client interface object is generated with interface type DFHCOMMAREA Calling Convention. It is called with EXEC CICS LINK from the calling application. This message is a warning issued during generation and tells you that the DFHCOMMAREA of a generated client interface object requires more than 24 KB to send the data (IN and INOUT IDL parameters). Certain restrictions apply depending on how you plan to call the client interface:

- **Distributed program link (DPL)**
That is, the calling application program is in a CICS that is different from the client interface object. Refer to the IBM documentation of EXEC CICS LINK for 24 KB limitations. See also IBM's APAR PQ06624.
- **Program link within the same CICS**
The normal upper limit for the length of the CICS COMMAREA is approx. 32 KB.

The appendix of the message gives you the IDL library and IDL program causing the warning.

Action Depending on the situation:

- If the client interface object exceeds 32 KB it is not possible to use the interface type CICS with DFHCOMMAREA. Use the interface type DFHCOMMAREA Calling Convention instead.
- For distributed program links, see your IBM CICS documentation of EXEC CICS LINK for further information.

**20040019 Receive length of <length> exceeds 24580 DFHCOMMAREA length:
<library>/<program>**

Explanation The client interface object is generated with interface type DFHCOMMAREA Calling Convention. It is called with EXEC CICS LINK from the calling application. This message is a warning issued during generation and tells you that the DFHCOMMAREA of a generated client interface object requires more than 24 KB to receive the data (OUT and INOUT IDL parameters). Certain restrictions apply depending on how you plan to call the client interface:

- **Distributed program link (DPL)**
That is, the calling application program is in a CICS that is different from the client interface object. Refer to the IBM documentation of EXEC CICS LINK for 24 KB limitations. See also IBM's APAR PQ06624.
- **Program link within the same CICS**
The normal upper limit for the length of the CICS COMMAREA is approx. 32 KB.

The appendix of the message gives you the IDL library and IDL program causing the warning.

Action Depending on the situation:

- If the client interface object exceeds 32 KB it is not possible to use the interface type CICS with DFHCOMMAREA. Use the interface type DFHCOMMAREA Calling Convention instead.
- For distributed program links, see your IBM CICS documentation of EXEC CICS LINK for further information.

20040020 Valid start level for data items in COPYBOOKS is from 1 thru 49

Explanation The COBOL programming language allows level numbers for data items in the range from 1 thru 49.

Action Specify a valid starting level.

**20040021 BS2000/OSD does not support DBCS i.e. K/KV:
<library>/<program>/<parameter>**

Explanation BS2000/OSD does not support DBCS.

Action Remove IDL type K or KV from your IDL.

20040022 Wrong option <servercopybooks> for SERVERCOPYBOOKS - (TRUE/FALSE)

Explanation The wrong value for the option was specified.

Action Specify TRUE or FALSE.

**20040023 Copybooklevel forced to 01 because of OCCURS DEPENDING ON:
<library>/<program>**

Explanation If the IDL contains unbounded arrays, the `copybooklevel` cannot be set to greater than 1.

Action None.

20040024 Generation of server not supported for TARGET - (IMS_MPP)

Explanation RPC server for IMS MPP cannot be generated with the COBOL Wrapper.

Action Do not specify target IMS_MPP for server.

20040025 IDL program name contains more than 31 characters : <library>/<program>

Explanation COBOL supports a maximum length of 31 characters for user defined words.

The appendix of the message gives you the IDL library and IDL program causing the warning.

Action Reduce the length of the IDL program name to meet COBOL restrictions.

20040026 IDL program alias contains more than 31 characters : <library>/<program>

Explanation COBOL supports a maximum length of 31 characters for user defined words.

The appendix of the message gives you the IDL library and IDL program causing the warning.

Action Reduce the length of the IDL program alias to meet COBOL restrictions.

20040027 IDL program name contains more than 8 characters : <library>/<program>

Explanation EntireX supports a maximum of 8 characters for COBOL RPC server names.

The appendix of the message gives you the IDL library and IDL program causing the warning.

Action Reduce the length of the IDL program name to meet the restriction.

20040028 IDL program name contains more than 7 characters : <library>/<program>

Explanation This is a special purpose message.

Action Contact Software AG support.

20040029 Wrong option combination <interface>/<comm> for INTERFACE/COMM

Explanation Wrong values for the options INTERFACE and COMM are specified.

Action Specify a valid combination for the options INTERFACE and COMM. See *Using the COBOL Wrapper in Command-line Mode* for valid combinations.

20040030 Option value <option> too long. A maximum of 32 characters is allowed.

Explanation The value specified for the option is too long. Options are BROKER, CLASS, SERVER or SERVICE.

Action Shorten the length for the option and retry generation.

20040031 Wrong option combination <target>/<comm> for TARGET/COMM

Explanation Wrong values have been specified for the options TARGET and COMM.

Action Specify a valid combination for the options TARGET and COMM. See *Using the COBOL Wrapper in Command-line Mode* for valid combinations.

20040032 IDL Library name (<library>) too long. A maximum of 127 characters is allowed

Explanation The IDL library name is too long to generate a COBOL server.

Action Shorten the length for the IDL library and retry generation.

20040033 IDL program name (<library>) too long. A maximum of 127 characters is allowed. IDL Library name is <library>

Explanation The IDL program name is too long to generate a COBOL server.

Action Shorten the length for the IDL program and retry generation.

20040034 IDL program has a client-side mapping (CVM). COBOL RPC clients not supported: <library>/<program>

Explanation RPC clients generated with the COBOL Wrapper do not support client-side mapping files (Natural | COBOL). The appendix of the message gives you the IDL library and IDL program name causing the error.

Action None.

20040101 Function not implemented

Explanation Generic RPC function not implemented.

Action Contact Software AG.

20040102 Invalid Argument(s) supplied

Explanation Invalid Generic RPC function was given.

Action Correct your program, specify a valid generic RPC function and retry.

20040103 Library missing

Explanation No Library name was given.

Action Provide a library in the RPC Communication Area.

20040104 User ID missing

Explanation No user ID was given.

Action Provide a user ID in the RPC Communication Area.

20040105 Not in reliable state CLIENT-COMMIT

Explanation Generic RPC function issued only valid for reliable message(s) started with CLIENT-COMMIT.

Action Correct your program and retry.

20040106	Invalid reliable state
Explanation	This is an internal error.
Action	Contact Software AG.
20040107	Conversations mixed with reliable msgs
Explanation	You tried to open a conversation while you are within a reliable message sequence.
Action	Correct your program and retry.
20040108	No active UOWID found
Explanation	You tried to get the reliable state of an UOW, but there is no UOWID in the RPC communication area.
Action	Correct your program and retry.
20040109	COMMAREA length not valid
Explanation	The length of the DFHCOMMAREA defined in the EXEC CICS LINK statement when calling a client interface object of interface type DFHCOMMAREA Calling Convention is too short. See <i>Using the COBOL Wrapper for CICS with DFHCOMMAREA Calling Convention (z/OS and z/VSE)</i> under <i>Using the COBOL Wrapper for the Client Side</i> in the COBOL Wrapper documentation.
Action	Correct your client CICS application.
20040110	Unknown CICS error <error> during call to COBSRVI
Explanation	During call of the generic RPC services module (COBSRVI) by your client interface object the CICS error <error> occurred.
Action	Refer to your IBM CICS documentation.
20040111	COBSRVI not found
Explanation	The generic RPC services module (COBSRVI) was not found by your client interface object.
Action	Check if the generic RPC service module is available in your environment.

20040112 Broker stub <stub-name> could not be loaded

Explanation You dynamically call the broker stub with the COBOL Wrapper, but the broker stub called could not be found in the environment.

Action Check the following possibilities:

- Check if the broker stubs are correctly installed in your target environment and are accessible from your application.
- Possibly customize the subprogram DOBROKER in the Generic RPC Service module for a valid broker stub name of your target environment.
- Possibly recompile the Generic RPC Service module and rebuild your application. Proceed as described under *Using the COBOL Wrapper*.

20040113 Invalid COBOL Wrapper API version

Explanation The API version for the COBOL Wrapper is wrong.

Action Specify a correct API version in the field `COMM-VERSION` of the RPC communication area. See *The RPC Communication Area (Reference)* in the COBOL Wrapper documentation.

20040114 TRANSFER to <broker-stub> returns with <error-status>

Explanation The `TRANSFER CONTROL` within IDMS to the broker stub failed.

Action See <error-status> and refer to the IDMS documentation.

20040115 Wrong data in parameter <idl-parameter-name>

Explanation The data contained in the parameter <idl-parameter-name> does not match the COBOL data type.

Action Check the value of the parameter, correct it and rerun the program.

20040116 Upper bound overflow in <occurs-depending-on-index>

Explanation The actual value provided in an index for an `OCCURS DEPENDING ON` is higher than the maximum upper bound defined for an IDL unbounded array, see `array-definition` under *Software AG IDL File*. For the parameter name, see the generated copybook (see *IDL Interface Copybooks*) and <occurs-depending-on-index>.

Action Check the value of the parameter, correct it and rerun the program.

20040117 **Negative value in <occurs-depending-on-index>**

Explanation The actual value provided in an index for an OCCURS DEPENDING ON is negative. For the parameter name, see the generated copybook (see *IDL Interface Copybooks*) and <occurs-depending-on-index>.

Action Check the value of the parameter, correct it and rerun the program.