

IBM InfoSphere Information Server
Version 8 Release 5

Parallel Engine Message Reference



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Note

Before using this information and the product that it supports, read the information in “Notices and trademarks” on page 57.

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Chapter 1. Parallel engine messages

The parallel engine generates messages that relate to errors that occur during installation, file writing and reading, and general product usage. The messages describe the types of errors, explain why they occurred, and provide solutions to them.

You can view complete error details in the log file in the IBM® InfoSphere™ DataStage® and QualityStage Director.

The symbol {0} appears throughout the messages, and indicates a variable that is returned by the code. This variable represents either a value or a property specific to the generated message.

Parallel-engine message-ID definitions

The 4-character prefix on each parallel-engine message acts as a component identifier.

Transform and buildop message prefixes

Some guidelines, which are not always followed, determine prefix assignment:

- T (as the first character) is generally reserved for IBM.
- TC is generally used for executable commands.
- TF is generally used for internal framework components.
- TO is generally used for operators.

Additional message prefixes are explained by message type:

TBLD

buildop

TCBO

transform compiler

TFEV

transform expression evaluation

TFFN

transform functions

TFPS

transform parser

TFSY

transform symbol parsing

TFTK

transform token processing

TFTM

transform runtime operator

Operator message prefixes

TCCO

compress/uncompress, encode/decode

TCGE
generator (used by row and column generator stages)

TEOW
eowgenerator

TFFR
import operator, file read support

TFLT
filter operator

TMSR
makesubrec

TMVT
makevect

TOAB
abort

TOCA
changeapply

TOCC
changecapture

TOCK
configuration check operator (internal only)

TOCM
compare

TOCP
copy

TOCS
checksum

TOCT
crosstab

TODF
diff

TODK
disk description check operator (internal only)

TODS
describe dataset operator (internal only)

TOFD
fd_compute, fd_extract

TOFN
funnel

TOGR
group

TOHD
head

TOHP
hash partitioner

TOIX
import/export

TOJO
join operators

TOLC
lookup operators

TOLP
lookup operators

TOLU
lookup operators

TOMC
sortmerge

TOMF
mff

TOMG
merge

TOMP
modulus partitioner

TOPC
"C" operator support

TOPK
peek

TOPS
sort test operators (internal only)

TORD
remdup

TORP
range partitioner

TOSA
SAS operators

TOSC
SAS operators

TOSE
SAS import/export operators

TOSF
sortfunnel

TOSK
surrogatekey

TOSO
tsort

TOSP
sample

TOSQ
sequence

TOSS
syncsort

TOST
statistics operators

TOSW
select

TOTR
transfer_to_raw (internal only)

TOTW
tagswitch

TOUS
unixsort

TOWR
writerangemap

TOXF
xlate_fields (internal only)

TPSM
parallelsortmerge

TPSR
promotesubrec

TSSR
splitsubrec

TSVT
splitvect

Database-related message prefix

TCDB
common database infrastructure

Oracle operator message prefix

TDOR
Oracle database messages

Command message prefixes

TCDS
dsrecords

TCDU
copy from somewhere

TCGC
gencfg

TCOA
orchadmin, checkconfig

TCOS
osh

TCPS
parseschema

TCRA
readadvstats

TCRC
readcobol

TCRE
resource estimation

TCRS
readstats

TCST
standalone (job startup)

Internal framework message prefixes

TFAC
accessor API

TFAD
adapter API

TFAM
data manager API

TFAR
persistence - APT_Archive and derivations

TFAS
association pattern

TFAV
argument checker

TFBA
storage allocation

TFBG
"by group" helper classes, key groups

TFBI
buffer I/O

TFCB
combinable operator support

TFCC
NLS converters

TFCF
configuration file processing

TFCI
combinable operator support

TFCL
collectors

TFCM
schema processing

TFCN
conductor

TFCO
conversions - miscellaneous

TFCP
composite operator support

TFCR
collectors

TFCT
timers

TFCU
cursor API

TFDA
APT_Date implementation

TFDE
APT_Decimal implementation

TFDM
data manager

TFDP
deprecated feature handling

TFDR
APT_DataSet implementation

TFDS
APT_DataSet API

TFEF
APT_EnvironmentFlag implementation

TFEL
APT_ErrorLog implementation

TFFL
APT_FieldList implementation

TFFS
APT_FileSet implementation

TFFT
APT_FieldTraversal implementation

TFIB
import/export base operator implementation

TFIC
APT_Interface implementation

TFID
APT_Identifier implementation

TFIF
APT_GFImportExport base class implementation

TFIG
import/export group layer implementation

TFIO
I/O manager (inter-operator data connections)

TFIP
APT_Interface implementation

TFIR
APT_InstantiatorRegistry implementation

TFIX
import/export generic functions for most built-in types

TFKG
key group implementation

TFKL
key lookup implementation

TFLX
APT_Lexer implementation

TFMA
APT_MultiFieldAccessor implementation

TFNV
null conversions

TFOG
operator registry

TFON
osh operator name registration implementation

TFOP
APT_Operator base class implementation

TFOR
operator implementation

TFOS
job parameter support

TFPA
path name utilities

TFPL
APT_PropertyList implementation

TFPM
process manager

TFPR
partitioner implementation

TFPT
APT_Partitioner base class implementation

TFPX
persistence implementation

TFRA
random number generation

TFRB
resource bundle support

TFRC
APT_Record implementation

TFRF
APT_RawField implementation

TFRM
resource manager (subcomponent of configuration manager)

TFRR
record management API implementation

TFRS
record streamer implementation used by import/export

TFRT
APT_RawField API

TFSB
subcursor API (hierarchical data)

TFSC
score composer

TFSF
string base class (used by APT_String and APT_UString)

TFSG
sort key export mechanism

TFSK
sort key implementation

TFSL
APT_FieldSelector implementation

TFSN
string class protocol support

TFSO
wrapped subprocess operator

TFSP
APT_Step API

TFSR
APT_Step implementation

TFST
string class type descriptor base implementation

TFSU
subprocess operator implementation

TFTA
tagged subrec accessor API

TFTC
type conversion base class support

TFTD
resource estimation, model support

TFTE
internal import/export test operators

TFTF
generic function base class implementation

TFTI
APT_Time implementation

TFTP
base protocol support

TFTS
APT_TimeStamp implementation

TFTU
unknown type processing

TFXF
APT_Transfer API

TFXP
internal exception support

TFXR
transfer implementation

TLCL
collation sequence support

TLIC
licensing internal operator

TOBA
balanced input operator base implementation

TOPR
predicate evaluation

TOSH
osh support

TPDO
performance monitor support

TRES
resource tracker

TSRR
SAS collector support

TUSF
APT_StructuredFile API

TUTL
internal utilities

Chapter 2. TFIG: Import and export group component layer

The following topics describe DSEE-TFIG messages.

DSEE-TFIG-00021 A value of 1, 2, 3, 4, or none was expected. The returned value was {0}.

Explanation: A 1, 2, 3, 4, or none was expected instead of the value that is identified in the message. Multiple characters are not supported by this property.

System action: None.

User response: Use a value of 1, 2, 3, 4, or none.

DSEE-TFIG-00023 The {0} property must have a string value.

Explanation: The {0} property requires that a string value is supplied.

System action: None.

User response: Provide a string value for the property identified in the error message.

DSEE-TFIG-00024 A single text character {1}, whitespace, ws, end_of_record, end, or none was expected. The returned value was {0}.

Explanation: A single text character, whitespace, ws, end_of_record, end, or none was expected instead of the value that is identified in the message. Multiple characters are not supported by the delimiter property.

System action: None.

User response: If the record data contains a single character field delimiter, ensure that a single character or a whitespace, ws, end_of_record, end or none value is being used. To specify a multiple character field delimiter value use the `delim_string` option.

DSEE-TFIG-00028 A single text character {0}, double text character, 1-character, or 2-character string was expected. The returned value was {1}.

Explanation: A single text character, double text character, 1-character, or 2-character string was expected instead of the value that is identified in the message. Only these characters are not supported by this property.

System action: None.

User response: Provide either a single text character, double text character, 1-character, or 2-character string.

DSEE-TFIG-00030 The {0} referenced field is not a linked field.

Explanation: The linked property for the {0} referenced field is not set. A referenced field that is used to indicate a variable length string or variable length vector must use the linked property set.

System action: None.

User response: Ensure that the referenced field is linked in the field level properties for that field.

DSEE-TFIG-00031 The {0} referenced field was not found in the same scope as the {1} text field.

Explanation: The {0} referenced field is either higher in scope or lower in scope than the referenced field to which it is linked. For example, the `vecLength` field is a top level field. It is being used as a referenced field for a variable length vector field `vecField`, and `vecField` is contained as part of a subrecord. In this example, `vecLength` is in a higher, top-level, scope than `vecField` and cannot serve as the referenced field linked to `vecField`.

System action: None.

User response: Edit the schema so that the linked field and the reference fields appear in the same scope, or use a different data format.

DSEE-TFIG-00038 The drop property does not have a value. The returned text was {0}.

Explanation: Use the drop property to specify a field to be dropped on import and not stored in the data set. The correct syntax for the drop properties is as follows: `{ drop }`.

System action: None.

User response: Edit the schema and remove any values from the drop property.

DSEE-TFIG-00040 The charset property cannot be used with the ascii or ebcdic properties.

Explanation: The charset property was used with either the ASCII or EBCDIC properties. These properties cannot be used together.

System action: None.

User response: Do not use the charset property when using the ASCII or EBCDIC properties.

DSEE-TFIG-00041 The `charset` property requires a string value. The returned value was `{0}`.

Explanation: The `charset` property specifies a character set defined by the International Components for Unicode (ICU). The correct syntax for `charset` is as follows:

```
record { charset = charset }
field_definition { charset = charset };
```

System action: None.

User response: Provide a string value for the `charset` property.

DSEE-TFIG-00048 The `print_field` property does not have a value. The returned text was `{0}`.

Explanation: The `print_field` property is used debugging purposes only. This property causes the import operator to display each value imported for the field. The correct syntax for the `print_field` value is as follows:

```
record { print_field }
field_definition { print_field };
```

System action: None.

User response: Remove any value from the `print_field` property.

DSEE-TFIG-00050 The `delim_string` property must have a string value. The returned text value was `{0}`.

Explanation: Use the `delim_string` property to specify a string of one or more ASCII or multibyte Unicode characters that form a trailing delimiter. The correct syntax for the `delim_string` property is as follows:

```
record {delim_string = 'ASCII_string' |
'multi_byte_Unicode_string' }
field_definition { delim_string = 'ASCII_string' |
'multi_byte_Unicode_string' };
```

System action: None.

User response: Provide a string value for the `delim_string` property.

DSEE-TFIG-00051 The `delim_string` property must have a non-empty string value. The returned text value was `{0}`.

Explanation: Use the `delim_string` property to specify a string of one or more ASCII or multibyte Unicode characters that form a trailing delimiter. The correct syntax for the `delim_string` property is as follows:

```
record {delim_string = 'ASCII_string' |
'multi_byte_Unicode_string' }
field_definition { delim_string = 'ASCII_string' |
'multi_byte_Unicode_string' };
```

System action: None.

User response: Provide a non-empty string value for the `delim_string` property.

DSEE-TFIG-00052 The scope cannot contain both the `final_delim` and `prefix` properties.

Explanation: The `final_delim` and `prefix` properties cannot be used together. Use the `final_delim` property to specify a delimiter for the last field. Use the `prefix` property to specify that each imported or exported field in the data file is prefixed by 1, 2, or 4 bytes containing, as a binary value, either the field's length or the tag value for a tagged subrecord.

System action: None.

User response: Remove either the `final_delim` or `prefix` property.

DSEE-TFIG-00053 The `final_delim_string` property must have a string value. The returned text was `{0}`.

Explanation: Use the `final_delim_string` property to specify a string of one or more ASCII or multibyte Unicode characters that are the delimiter string of the last field of the record. The correct syntax for the `final_delim_string` is as follows:

```
record {final_delim_string = 'ASCII_string' |
'multi_byte_Unicode_string' }
```

Usage Details

Field Defaults > Final Delimiter >

Chars ASCII_string

where string characters are enclosed in single quotation marks.

System action: None.

User response: Provide a string value for the `final_delim_string` property.

DSEE-TFIG-00054 The `final_delim_string` property must have a non-empty string value. The returned text was `{0}`.

Explanation: Use the `final_delim_string` property to specify a string of one or more ASCII or multibyte Unicode characters that are the delimiter string of the last field of the record. The correct syntax for the `final_delim_string` is as follows:

```
record {final_delim_string = 'ASCII_string' |
'multi_byte_Unicode_string' }
```

Usage Details

Field Defaults > Final Delimiter >

Chars ASCII_string

where string characters are enclosed in single quotation marks.

System action: None.

User response: Provide a non-empty string value for the `final_delim_string` property.

DSEE-TFIG-00055 The scope cannot contain both the quote and prefix properties.

Explanation: The quote and prefix properties cannot be used together. Use the quote property to specify that a field is enclosed in single quotes, double quotes, or another ASCII or multibyte Unicode character or pair of ASCII or multibyte Unicode characters. Use the prefix property to specify that each imported or exported field in the data file is prefixed by 1, 2, or 4 bytes containing, as a binary value, either the field's length or the tag value for a tagged subrecord.

System action: None.

User response: Remove either the quote or prefix property.

DSEE-TFIG-00057 The null_field property must have a string value. The returned text was {0}.

Explanation: Use the null_field property to specify the value representing null. The correct syntax is as follows:

```
field_definition { null_field = 'byte_value' |
'multi_byte_Unicode_value' };
```

where byte_value or multi_byte_Unicode_value is: On import, this represents the value given to a field containing a null. On export, this represents the value given to an exported field if the source field is set to null.

System action: None.

User response: Provide a string value for the null_field property.

DSEE-TFIG-00058 The actual_length property must be used with the null_length property.

Explanation: The actual_length property specifies, on import, the actual number of bytes to skip if the field's length equals the null_length. On export, the actual_length property specifies the number of bytes to fill with the null-field or specified pad character if the exported field contains a null.

System action: None.

User response: Use the null_length property with the actual_length property.

DSEE-TFIG-00060 The null_length value must be an integer. The returned text was {0}.

Explanation: A non-integer value was used for the null_length property. The correct syntax for the null_length field is as follows:

```
field_definition { null_length= length }
```

where length is the length in bytes of a variable-length field that contains a null.

System action: None.

User response: Provide an integer value for the null_length property.

DSEE-TFIG-00061 The actual_length value must be an integer. The returned text was {0}.

Explanation: A non-integer value was used for the actual_length property. The correct syntax of the actual_length property is as follows:

```
field_definition {actual_length = length };
```

where length is the number of bytes skipped by the import operator or filled with zeros by the export operator when a field has been identified as null.

System action: None.

User response: Provide an integer value for the actual_length property.

DSEE-TFIG-00062 The variable length vector must use the vector_prefix or reference property.

Explanation: A variable length field does not use a vector_prefix property or a reference field property. At least one of these properties is required.

System action: None.

User response: Use the vector_prefix property or reference field property to define the length of the variable length vector.

DSEE-TFIG-00064 Only variable-length vector fields can use the vector_prefix property.

Explanation: The vector_prefix property applies only to fields that are formatted as variable-length vectors.

System action: None.

User response: Remove the vector_prefix property from the variable-length vector field.

DSEE-TFIG-00065 The drop property cannot appear on a tagged subfield.

Explanation: Use the drop property to specify a field to be dropped on import and not stored in the data set. This property can be used on fields of all data types with the exception of a record, subrec, or tagged field or subfield.

System action: None.

User response: Remove the drop property from the tagged subfield.

DSEE-TFIG-00071 The {0} data type does not support user specified default values.

Explanation: The {0} type does not support a default value. There is no method available to parse the value that is specified as the default.

System action: None.

User response: Remove the default value specified for this field.

DSEE-TFIG-00073 The default value is not valid for type {0} or text {1}.

Explanation: The default value for a field cannot be parsed and converted to an instance of type {0}. This may be due to one of the problems in the following list:

- Numeric defaults may contain one or more invalid characters. For example, 1.234z56 is not a valid float.
- Date defaults must match the date format being used. For example, the date format being used is YYYY-MM-DD, and "1965-99-99" is being used. "99-99" are not valid date characters.
- Decimal defaults do not match the expected format. For example, 1.66666667e+002 is not a valid default decimal.

System action: None.

User response: Use a valid string representation of a default value that matches the data type and format properties with that particular data type. In the case of dates, timestamps and times, you must also provide format properties.

DSEE-TFIG-00080 A null_field property was used on a field that cannot be null.

Explanation: A null_field property cannot be used on a field that cannot be null.

System action: None.

User response: Remove the null_field property from fields that do not allow null values. If a null value is expected in a field, change the field properties so that it allows null values.

DSEE-TFIG-00081 A null_length property was used on a field that cannot be null.

Explanation: A null_length property cannot be used on a field that cannot be null.

System action: None.

User response: Remove the null_field property from fields that do not allow null values. If a null value is expected in a field, change the field properties so that it allows null values.

DSEE-TFIG-00112 A single text character for padchar was expected. The returned value was {value}.

Explanation: The padchar value must contain a single text character.

System action: None

User response: Change the padchar value so that it contains a single text character.

DSEE-TFIG-00113 The padchar value must be an integer between 0 and 255. The returned value was {value}.

Explanation: The specified padchar value is outside the range of valid character values. Numeric values are only allowed only within the recognized range between 0 and 255.

System action: None.

User response: Change the padchar value so that it is between 0 and 255.

DSEE-TFIG-00115 {0} is an unrecognized top-level format property.

Explanation: When the top-level record properties of an import schema or export schema where processed, an invalid {0} property was encountered.

System action: None.

User response: Check that the property is a valid import property and is spelled correctly. For example, *paddingchar* might be specified but the correct spelling of the property name is *padchar*.

DSEE-TFIG-00117 {0} is an unrecognized type-specific format property.

Explanation: When an import schema or export schema where processed, an invalid {0} property was encountered.

System action: None.

User response: Check that the property is a valid import property and is spelled correctly.

DSEE-TFIG-00121 Exporting nullable field without null handling properties

Explanation: A nullable column is being exported to a file, and no representation for null values was specified. If a null value is encountered, the job fails. Typical components that export the column include these operators:

- File import and export operators
- Field import and export operators
- Some database operators

- More commonly, export operators in a Sequential File stage

System action: The job is executed; if a null value is encountered, the job will be terminated abnormally.

User response: If there is any possibility that null values will be encountered for the column, modify the job to handle them correctly. For example, you can use a modify stage to provide a default value to be substituted if a null value is encountered. Or, you can alter the export specification to provide a representation for null values.

DSEE-TFIG-00122 The null_field length {0} must match the field's fixed width of {1}.

Explanation: The null_field length {0} is not valid. The {0} length must be the same length as the field's fixed-width of {1}. Fixed width fields include date fields, decimal fields, and any field where a specific width property is applied.

System action: None.

User response: Change the length of the null_field value to match the fixed width value of the field.

DSEE-TFIG-00126 The link field must be fixed length.

Explanation: A link field of variable length was encountered during an export operation. Because link fields appear in the record layout before the fields, subrecords, and tagged records that they reference, a fixed number of bytes must be reserved in the record layout where the link field value is written. Link fields cannot be written until after the referenced fields are examined.

System action: None.

User response: Modify the type or format property of the link field to fixed width.

DSEE-TFIG-00182 A quotation mark character was expected at field {0}{1}. {2} was expected. Instead, {3} was returned at offset {4}.

Explanation: An unexpected character was encountered when parsing a field during an import operation. A quotation mark character as defined in the import schema was expected.

System action: None.

User response: Ensure that the data records that are being imported match the quotation mark character that is specified in the import schema. Correct the data, or change the quotation mark character properties in the import schema to match the data records.

DSEE-TFIG-00187 The {0} {1} field has an import error. No default value {2} was found at offset {3}.

Explanation: The data that is being imported does not match the import schema type and formatting specifications. When a record buffer at field positions {0} and {1} was imported, an incorrect value was found. Because no default value {2} was supplied to populate the field, the record cannot be imported.

System action: None.

User response: Ensure that the data records that are being imported match the schema type and formatting information in the import schema. Correct the data, or change the formatting information in the import schema to match the data records. Or, use a default value to populate the field when import errors are encountered.

DSEE-TFIG-00201 Field "{0}" has import error and no default value{1}, at offset: {2}

Explanation: An error was discovered while importing field {0}, and a default value for the field was not specified. {1} is the actual content of the field being imported; it is {2} bytes from the beginning of the record.

System action: Depending on the options specified for the import operation, one of the following will occur:

- The job will be immediately aborted.
- The record will be dropped from the output dataset, and the job will continue.
- The source for the record will be routed to the reject dataset.

User response: The user response depends on the user intent:

- If this is expected, no response is required.
- A default value may be specified for the field.
- Appropriate reject handling may be specified.

Chapter 3. TFIX: Import and export of basic types

The following topics describe various DSEE-TFIX messages.

DSEE-TFIX-00001 Text cannot be used in decimal mode.

Explanation: Decimal mode only supports numeric values.

System action: None.

User response: Use a numeric value in decimal mode.

DSEE-TFIX-00002 The `c_format` property cannot be used in binary representation.

Explanation: The `c_format` property specifies a format for the `scanf()` function to convert string data to integer or floating point data and by the `sprintf()` function to convert integral or floating point data to string data.

System action: None.

User response: Refer to the *Orchestrate® Operators Reference* documentation for information about the `c_format` property.

DSEE-TFIX-00003 More than 15 digits were used in decimal mode. The integer size {0} and the fraction size {1} were specified.

Explanation: Using more than 15 digits total when specifying integer and fractions sizes in decimal mode can cause errors to occur.

System action: None.

User response: Do not use more than 15 digits total when you specify integer and fraction sizes in decimal mode.

DSEE-TFIX-00004 The sum of the integer and fraction in decimal mode is greater than 31. The integer was {0}, and the fraction was {1}.

Explanation: The sum of the integer value and the fraction value cannot exceed 31 in decimal mode.

System action: None.

User response: Specify an integer value and fraction value that, when combined, do not exceed 31.

DSEE-TFIX-00219 Text representation is not compatible with decimal mode.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00220 A `c_format` may not be used in binary representation.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00221 Conversion errors. The actual integer and fraction sizes specified were {0} and {1}, respectively.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00222 In decimal mode, the sum of the integer and fraction must not exceed 31. The returned values were integer {0} and fraction {1}.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00223 Both `width` and `max_width` cannot be specified. Returned values were `width` {0}, and `max_width` {1}.

Explanation: `max_width` defines the maximum width of the destination field. `width` specifies the number of 8-bit bytes of an imported or exported text-format field. These properties cannot be used together.

System action: None.

User response: Remove either the `width` or the `max_width` property.

DSEE-TFIX-00224 Fraction is non-zero ({0}). Any fractional parts will be silently truncated.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00225 Neither {0} nor {1} is defined.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00226 Illegal decimalMode_, {0}

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00227 {0} failed; field length unknown.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00228 {0} APT_GFIX_Int@0x {1}
 representation: {2} endian: {3} charset: {4}
 decimal: {5} intsize: {6} fracsize: {7}
 fixwidth: {8} padding: {9} informatted:
 {10} informat: {11} outformatted: {12}
 outformat: {13} width: {14} max width:
 {15} bytes: {16} signed: {17} notENone:
 {18} \0

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00229 {0} APT_GFIX_Raw@0x {1} is fixed
 {2} width: {3} \0

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00230 Fraction must be zero for
 string/packed conversions.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00231 oth width and max_width cannot
 be specified. Returned values were
 width {0}, and max_width {1}.

Explanation: max_width defines the maximum width of the destination field. width specifies the number of 8-bit bytes of an imported or exported text-format field. These properties cannot be used together.

System action: None.

User response: Remove either the width or the max_width property.

DSEE-TFIX-00232 Packed mode does not support
 width or max_width.

Explanation: The packed property specifies that the imported or exported field contains a packed decimal. Width and max_width variables cannot be used with the packed property. Variables that can be used with the packed property are: check (default) perform the data verification process on import or export. This property is ignored if you specify fix_zero. nocheck, used to bypass the data verification process on import or export. This property is ignored if you specify fix_zero. The options check and nocheck cannot be used together. signed (default), uses the sign of the source decimal on import or export. unsigned, generates a sign nibble of 0xf, meaning a positive value, regardless of the imported or exported field's actual sign. This format corresponds to the COBOL PICTURE 999 format (as opposed to S999). The options signed and unsigned cannot be used together.

System action: None.

User response: Remove the width or max_width property. Use one of the correct values for the packed property as described in the Explanation section.

DSEE-TFIX-00233 Schema string field length, if
 specified, be appropriate for integer and
 fraction parameters. The parameters
 require a field width of {0} bytes. The
 schema specifies {1} bytes.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00234 {0} APT_GFIX_String@0x {1}
 endian: {2} charset: {3} decimal: {4}
 intsize: {5} fracsize: {6} decimalwidth: {7}
 is fixed {8} width: {9} padchar: {10}
 fieldIsFixedLength: {11}
 fieldFixedLength: {12} hasWidthParam:
 {13} widthParam: {14}
 hasMaxWidthParam: {15}
 maxWidthParam: {16} \0

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00242 Floating point fields must be at least 8 columns wide with default export formatting

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00243 Packed mode does not support width or max_width.

Explanation: The packed property specifies that the imported or exported field contains a packed decimal. Width and max_width variables cannot be used with the packed property. Variables that can be used with the packed property are: check (default) perform the data verification process on import or export. This property is ignored if you specify fix_zero. nocheck, used to bypass the data verification process on import or export. This property is ignored if you specify fix_zero. The options check and nocheck cannot be used together. signed (default), uses the sign of the source decimal on import or export. unsigned, generates a sign nibble of 0xf, meaning a positive value, regardless of the imported or exported field's actual sign. This format corresponds to the COBOL PICTURE 999 format (as opposed to S999). The options signed and unsigned cannot be used together.

System action: None.

User response: Remove the width or max_width property. Use one of the correct values for the packed property as described in the Explanation section.

DSEE-TFIX-00244 Schema string field length, if specified, be appropriate for integer and fraction parameters. The parameters require a field width of {0} bytes. The schema specifies {1} bytes.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00245 Conversion problem in exportSize method, trying to import:{0}.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00246 Conversion problem in import method, trying to import.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00247 {0}

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00248 External ustring too long. Imported only {0} out of {1} external characters into a ustring of fixed length {2}. Ignoring last {3} characters of external ustring up to delimiter.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00249 External ustring too short. Imported only {0} external characters into a ustring of fixed length {1}.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00250 Conversion problem in export method, trying to export:{0}.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00251 Conversion problem in import method, trying to import:{0}.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00252 {0} APT_GFIX_String@0x {1} endian: {2} decimal: {3} intsize: {4} fracsize: {5} decimalwidth: {6} isFixedWidth: {7} width: {8} padchar: {9} fieldIsFixedLength: {10} fieldFixedLength: {11} hasWidthParam: {12} widthParam: {13} hasMaxWidthParam: {14} maxWidthParam: {15} hasCharsetParam: {16} charsetParam: {17} workingCharset: {18}\0

Explanation: None available.

System action: None.

DSEE-TFIX-00253 • DSEE-TFIX-00256

User response: Contact your system administrator.

DSEE-TFIX-00253 A floating-point format may not be used in text representation.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00254 A floating-point format cannot be used with decimal mode.

Explanation: Decimals must be represented in decimal format.

System action: None.

User response: Use decimal format.

DSEE-TFIX-00255 An `ibm_hex` format may only be used with double-precision floating-point.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

DSEE-TFIX-00256 An `ibm_hex` format may only be used with native byte ordering.

Explanation: None available.

System action: None.

User response: Contact your system administrator.

Chapter 4. TFPM: Process manager

The following topics describe various DSEE-TFPM messages.

DSEE-TFPM-00001 The APT_PMCleanUp::registerFile ({0},{1},{2}) function ran successfully.

Explanation: The APT_PMCleanUp::registerFiles function was called to the file {0} in the file registry by using flags {1} and {2}. Flag {1} indicates if the file will be saved or deleted when a job completes successfully. Flag {2} indicates if the file will be saved or deleted if the job fails.

System action: None.

User response: No action is required.

DSEE-TFPM-00002 The APT_PMCleanUp::changeFileRegistration ({0},{1},{2}) function ran successfully.

Explanation: The APT_PMCleanUp::changeFileRegistration function was called to change the registration for file {0} with new flags {1} and {2}. Flag {1} indicates if the file will be saved or deleted when a job completes successfully. Flag {2} indicates if the file will be saved or deleted if the job fails.

System action: None.

User response: No action is required.

DSEE-TFPM-00003 The APT_PMCleanUp::deleteFileRegistration ({0}) function ran successfully.

Explanation: The APT_PMCleanUp::deleteFileRegistration function was called to remove the file {0} from the file registry.

System action: None.

User response: No action is required.

DSEE-TFPM-00004 APT_PM CleanUp::performCleanupAction: was not called by the appropriate process.

Explanation: The APT_PMCleanUp::performCleanupActions function was not called from the appropriate process. An internal software error occurred. The process manager encountered an unknown process during the job-process cleanup. The handled process types are conductor or section leader. This error results from a problem in the cleanup process or memory corruption.

System action: None.

User response: Verify that you intended to run the job. Before troubleshooting this error, collect the job logs.

DSEE-TFPM-00005 The name must not be a null value.

Explanation: The APT_PMCleanUp::registerFile function was called, but the file name was null.

System action: None.

User response: Change the file name to a non-null value.

DSEE-TFPM-00006 The APT_PMCleanUp::registerFileImpl ({0},{1},{2}) function failed.

Explanation: The APT_PMCleanUp::registerFileImpl function failed due to an internal software error.

System action: None.

User response: No action is required. This message is informational.

DSEE-TFPM-00007 APT_PMCleanUp::registerFile: Could not generate a full path name for {0}. The relative path name will be used.

Explanation: A full path name could not be generated into the file registry for {0}. The relative path name will be used instead.

System action: None.

User response: No action is required.

DSEE-TFPM-00008 APT_PMCleanUp::registerFileImpl ({0},{1},{2}). The registered path is {3}.

Explanation: The file {0} is entered into the file registry as {3} with flags {1} and {2}. Flag {1} indicates whether the file will be saved or deleted when a job completes successfully. Flag {2} indicates whether the file will be saved or deleted if the job fails.

System action: None.

User response: No action is required.

DSEE-TFPM-00009 The function `APT_PMCleanup::changeFileRegistrationImpl` (`{0}`,`{1}`,`{2}`) ran successfully.

Explanation: The function `APT_PMCleanup::changeFileRegistrationImpl` is called to change the file `{0}` registration with new flags `{1}` and `{2}`. Flag `{1}` indicates whether the file will be saved or deleted when a job completes successfully. Flag `{2}` indicates whether the file will be saved or deleted if the job fails.

System action: None.

User response: No action is required.

DSEE-TFPM-00010 The `APT_PMCleanup::changeFileRegistration`: file `{0}` is not registered.

Explanation: The file `{0}` was not found in the file registry while trying to change the entry.

System action: None.

User response: No action is required.

DSEE-TFPM-00011 The `APT_PM Cleanup::deleteFileRegistrationImpl`(`{0}`) function ran successfully.

Explanation: The `APT_PMCleanup::deleteFileRegistrationImpl` function called the `APT_PMCleanup::deleteFileRegistration` function to remove the file `{0}` from the registry.

System action: None.

User response: No action is required.

DSEE-TFPM-00012 `APT_PMCleanup::deleteFileRegistration`: The file `{0}` is not registered.

Explanation: The file `{0}` was not found in the file registry while deleting the entry.

System action: None.

User response: No action is required.

DSEE-TFPM-00013 `APT_PMCleanup::processRegisterMsg`: The file registration instruction `{0}` is not valid.

Explanation: The file registration instruction `{0}` was not valid. An internal software error occurred. The process manager received an unknown type of registration message. The expected message types are register, deregister, or change. This error might indicate that the message was corrupted in some way, perhaps by a network issue or a memory corruption in the sending process.

System action: None.

User response: Verify that corruptions did not occur because of network issues.

DSEE-TFPM-00014 The full path name of file `{0}` was not returned. The current working directory is `{1}`.

Explanation: A file registration request could not be processed. The full path name for `{0}` could not be returned. An internal software error occurred. On Windows computer, this error could occur because of a NuTCRACKER failure to convert a Windows path to a UNIX-style path.

System action: None.

User response: Verify the permissions for the user's home directory. On Windows computers, review the application log in the Windows Event Viewer for errors that are logged by the NuTCRACKER service.

DSEE-TFPM-00015 The data set values `{0}`,`{1}` --> `{2}`, `closeCommunicator` (`{3}`,`{4}`):`{5}`: `communicator={6}` were returned.

Explanation: The interprocess communicators are closing for straight-through connections. The return values are defined in the following list:

- `{0}` the data set index
- `{1}` The PID of the producer of the data set
- `{2}` The PID of the consumer of the data set
- `{3}` The data set index
- `{4}` The communicator index
- `{5}` The direction
- `{6}` The communicator description

System action: None.

User response: No action is required.

DSEE-TFPM-00016 The data set values `{0}`,`{1}` ==> `{2}`, `closeCommunicator`(`{3}`,`{4}`):`{5}`: `communicator={6}` were returned.

Explanation: The interprocess communicators are closing for straight-through connections. The return values are defined in the following list:

- `{0}` the data set index
- `{1}` The PID of the producer of the data set
- `{2}` The PID of the consumer of the data set
- `{3}` The data set index
- `{4}` The communicator index
- `{5}` The direction
- `{6}` The communicator description

System action: None.

User response: No action is required.

DSEE-TFPM-00017 The values {0},{1} --> {2},
nSockets(input)=1 (of{3}) were returned.

Explanation: The print communication values in the following list were returned for straight-through partitioned input data sets:

- {0} the data set index
- {1} The PID of the producer of the data set
- {2} The PID of the consumer of the data set
- {3} The total number of communicators for the data set

System action: None.

User response: No action is required.

DSEE-TFPM-00018 The values {0},{1} ==> {2},
nSockets(input)=1 (of{3}) were returned.

Explanation: The print communication values in the following list were returned for cross-partitioned input data sets:

- {0} the data set index
- {1} The PID of the producer of the data set
- {2} The PID of the consumer of the data set
- {3} The total number of communicators for the data set

System action: None.

User response: No action is required.

DSEE-TFPM-00019 The values {0},{1} --> {2},
nSockets(output)=1 (of {3}) were returned.

Explanation: The print communication values in the following list were returned for straight-through partitioned output data sets:

- {0} the data set index
- {1} The PID of the producer of the data set
- {2} The PID of the consumer of the data set
- {3} The total number of communicators for the data set

System action: None.

User response: No action is required.

DSEE-TFPM-00020 The values {0},{1} ==> {2},
nSockets(output)=1 (of {3}) were returned.

Explanation: The print communication values in the following list were returned for cross-partitioned output data sets:

- {0} the data set index
- {1} The PID of the producer of the data set
- {2} The PID of the consumer of the data set
- {3} The total number of communicators for the data set

System action: None.

User response: No action is required.

DSEE-TFPM-00021 The values {0},{1} --> {2},
communicator({3} of {4})={5} were returned.

Explanation: The print communication values in the following list were returned for straight-through partitioned input data sets:

- {0} the data set index
- {1} The PID of the producer of the data set
- {2} The PID of the consumer of the data set
- {3} The communicator index
- {4} The total number of communicators
- {5} The communicator description

System action: None.

User response: No action is required.

DSEE-TFPM-00022 The {0},{1} ==> {2},
communicator({3} of {4})={5} were returned.

Explanation: The print communication values in the following list were returned for cross-partitioned data sets:

- {0} the data set index
- {1} The PID of the producer of the data set
- {2} The PID of the consumer of the data set
- {3} The data set communicator index
- {4} The total number of communicators
- {5} The communicator description

System action: None.

User response: No action is required.

DSEE-TFPM-00152 Accept timed out retries = {0}

Explanation: The conductor process has not received a connection from any node and will retry {0} times. If the network is very busy, or if the job is running on a very large number of nodes, this message may not indicate a problem.

System action: None.

User response: None, informational message.

DSEE-TFPM-00153 The section leader on {0} died.

Explanation: The initial process (the "section leader" process) on node {0} failed to start or terminated without connecting back to the conductor.

System action: None.

User response: This message is informational, and is followed by additional messages.

DSEE-TFPM-00177 Step started on node {0}; it uses {1} nodes.

Explanation: The "conductor" process (the initial process of any parallel job) is running on the node named {0}. The job is attempting to use {1} nodes.

System action: None.

User response: None, informational message.

DSEE-TFPM-00178 The ORCHESTRATE startup program in {0} is being used.

Explanation: Parallel job startup uses rsh or ssh to run an initial "startup program" on each node used by the job. This is typically the file defined by \$APT_ORCHHOME/etc/standalone.sh. This file must be accessible on every node used to execute the job.

System action: None.

User response: Ensure that this file must be accessible on every node used to execute the job.

DSEE-TFPM-00180 A startup script (in {0}) is being used.

Explanation: If a startup script is being used, the first message will appear, and {0} will provide the name of a file containing the script. This file must be accessible on every node used to execute the job.

System action: None.

User response: Ensure that this file is accessible on every node used to execute the job.

DSEE-TFPM-00181 A startup script is not being used.

Explanation: If a startup script is being used, the first message will appear, and {0} will provide the name of a file containing the script. This file must be accessible on every node used to execute the job.

System action: None.

User response: Ensure that this file is accessible on every node used to execute the job.

DSEE-TFPM-00183 The TCP port being used for startup is {0}; the associated socket number is {1}.

Explanation: As each node starts, it establish a TCP connection back to the original conductor process. This message provides the TCP/IP port number that the nodes will connect to ({0}), and the socket number ({1}) used in the conductor process for this port.

System action: None.

User response: None, informational message.

DSEE-TFPM-00184 Node status:

Explanation: This message is followed by a pair of messages for each node, which provide the status of startup on that node at the time of startup failure.

System action: None.

User response: This message is informational, and is followed by additional messages.

DSEE-TFPM-00185 {0}

Explanation: {0} indicates a node name, which will be followed by one of the following status indications:

- TFPM-00186: startup was successful for this node.
- TFPM-00187: rsh issued, no response received.
- TFPM-00188: startup script failed or hung.
- TFPM-00189: error sending environment.
- TFPM-00190: startup script detected errors or other previously noted problem.
- TFPM-00191: An internal error occurred; please save output and contact IBM Technical Support.

System action: None.

User response: Responses are explained in the topics for the above-listed messages.

DSEE-TFPM-00186 Startup was successful for this node.

Explanation: Startup was successful for this node.

System action: None.

User response: None, informational message.

DSEE-TFPM-00187 rsh issued, no response received.

Explanation: The rsh/ssh command was issued for this node, but the node never connected back to the conductor. This usually indicates that rsh/ssh has not been correctly configured between the conductor node and the target node.

System action: None.

User response: Ensure that it is possible to rsh/ssh between the conductor node and the target node. This can be tested by issuing one of these commands (whichever is appropriate) from a shell prompt for the userid being used to run the job:

```
rsh <target node> date  
ssh <target node> date
```

This should return the date. If it does not, the password-less rsh/ssh has not been correctly configured.

DSEE-TFPM-00188 startup script failed or hung.

Explanation: This occurs only when message TFPM-00180 has been previously issued. It indicates that the startup script was started, but that no subsequent connection back to the conductor process was received. This may indicate an error in the startup script logic or syntax.

System action: None.

User response: Check the log for errors

DSEE-TFPM-00189 error sending environment.

Explanation: The connection between the conductor and the node failed while the conductor was sending the environment variable settings to the node. This might indicate a network failure.

System action: None.

User response: None, informational message.

DSEE-TFPM-00190 Startup script detected errors or other previously noted problem.

Explanation: This message occurs only when message TFPM-00180 has been previously issued. It indicates that the startup script was started, but that the startup script detected an error and explicitly requested that the job be aborted. The script should issue a message providing the reason for the abort.

System action: None.

User response: Check the script-generated message for reasons for this error.

DSEE-TFPM-00191 An internal error occurred; please save output and contact IBM Technical Support.

Explanation: This indicates that an unexpected startup status has been discovered; this should never occur.

System action: None.

User response: Save output and contact IBM Technical Support.

DSEE-TFPM-00279 Caught ORCHESTRATE exception {0}{1}

Explanation: An unhandled exception was caught during execution, either in the main program or in a parallel process (as indicated by {0}). A description of the exception follows as {1}.

Note: The error location is not correctly localized.

System action: None

User response: This message will usually be preceded

by a message that describes the condition causing the error.

DSEE-TFPM-00338 APT_PMsectionLeader({0}, {1}), player {2} - Unexpected exit status {3}.

Explanation: The failure of the stage execution process (a player process) was detected by a node coordinator process (a section leader process). The ID number for the section leader is {0}, and the leader runs on the node named {1} in the configuration file. The exit code for the player process was {3}.

System action: The job is terminated abnormally.

User response: This message is typically accompanied by other messages that describe the cause of the failure, which can either precede or follow this message. See the responses for those messages.

DSEE-TFPM-00339 APT_PMsectionLeader({0}, {1}), player {2} - Unexpected termination by Unix signal {3}({4}).

Explanation: The failure of the stage execution process (a player process) was detected by a node coordinator process (a section leader process). The ID number for the section leader is {0}, and the leader runs on the node named {1} in the configuration file. The player process failed with signal {3}, whose corresponding signal name is {4}.

System action: The job is terminated abnormally.

User response: This message is typically accompanied by other messages that describe the cause of the failure, which can either precede or follow this message. See the responses for those messages.

DSEE-TFPM-00356 ** Parallel startup failed ******

This is usually due to a configuration error, such as not having the Orchestrate install directory properly mounted on all nodes, rsh permissions not correctly set (via /etc/hosts.equiv or .rhosts), or running from a directory that is not mounted on all nodes. Look for error messages in the preceding output.

Explanation: Startup of the parallel job failed. This will be preceded by a set of messages describing the status of the job on each node at the time when the failure occurred.

System action: None.

User response: Verify that the software is properly installed on all nodes in the configuration file. Verify that the user ID used to run the job is authorized for all nodes, and that passwordless rsh or ssh is working correctly on all nodes.

Chapter 5. TFRS: Import and export record streams

The following topics describe various DSEE-TFRS messages.

DSEE-TFRS-00002 The `record_length` argument cannot be used with the `record_format` argument. {0} was the returned value.

Explanation: You cannot use the `record_length` argument when you use the `record_format` argument.

System action: None.

User response: Remove the `record_length` argument.

DSEE-TFRS-00003 The `record_length` argument must have a positive integer value. {0} was the returned value.

Explanation: The `record_length` argument defines the fixed length of the record. The `record_length` argument must have a positive integer value.

System action: None.

User response: Assign a positive integer value to the `record_length` argument.

DSEE-TFRS-00004 The record cannot be both prefixed and delimited. {0} was the returned value.

Explanation: The record contains both a prefixed argument and a delimited argument. These types of arguments cannot be used together in a record.

System action: None.

User response: Remove either the prefixed argument or the delimited argument. Only one of these arguments can be used in a record.

DSEE-TFRS-00005 The `record_prefix` argument cannot be used with the `record_format` argument. {0} was the returned value.

Explanation: You cannot use the `record_prefix` argument when you use the `record_format` argument.

System action: None.

User response: Remove either the `record_prefix` argument or the `record_format` argument.

DSEE-TFRS-00006 The `record_prefix` argument must have a value of 1, 2, or 4. {0} was the returned value.

Explanation: Use the `record_prefix` argument to prefix a variable-length record with a 1-byte, 2-byte, or 4-byte

length prefix. Records with a length prefix are stored as binary data, where the prefix is 1, 2, or 4.

System action: None.

User response: Specify a value of 1, 2, or 4. If you do not specify a value for the `record_prefix` argument, the default value of 1 will be used.

DSEE-TFRS-00007 The `record_delim` argument cannot be used with the `record_delim_string` argument. {0} was the returned value.

Explanation: You cannot use the `record_delim` argument when you use the `record_delim_string` argument.

System action: None.

User response: Remove the `record_delim` argument or the `record_delim_string` argument.

DSEE-TFRS-00008 The `record_delim` argument cannot be used with the `record_format` argument. {0} was the returned value.

Explanation: You cannot use the `record_delim` argument when using the `record_format` argument.

System action: None.

User response: Remove the `record_delim` argument or the `record_format` argument.

DSEE-TFRS-00009 The `record_delim_string` argument cannot be used with the `record_format` argument. {0} was the returned value.

Explanation: You cannot use the `record_delim_string` argument when you use the `record_format` argument.

System action: None.

User response: Remove the `record_delim_string` argument or the `record_format` argument.

DSEE-TFRS-00010 The `record_delim_string` argument cannot be an empty string. {0} was the returned value.

Explanation: The `record_delim_string` argument specifies an ASCII or multibyte Unicode string that delimits a record. The value cannot be an empty string.

System action: None.

User response: Use a valid ASCII or multibyte Unicode string to delimit the record. The valid Unicode values are between 0 and 65535. ASCII characters such as a single space or period are useful because they are portable across the commonly used character sets.

DSEE-TFRS-00011 The `record_delim_string` argument must be a string value. {0} was the returned value.

Explanation: The `record_delim_string` argument specifies an ASCII or multibyte Unicode string that delimits a record. The value must be a valid string value.

System action: None.

User response: Use a valid ASCII or multibyte Unicode string to delimit the record. The valid Unicode values are between 0 and 65535. ASCII characters such as a single space or period are useful because they are portable across the commonly used character sets.

DSEE-TFRS-00013 The `record_format` variable must have a sub-property type. {0} was the returned value.

Explanation: The `record_format` variable was used without a sub-property.

System action: None.

User response: You must use either the implicit or varying sub-property when you use the `record_format` variable. Use varying to specify one of the following blocked or spanned formats: V, VB, VS, or VBS. Data is imported by using the selected format. If you use the implicit sub-property, data is imported or exported as a stream with no explicit record boundaries.

DSEE-TFRS-00014 The sub-property type in the `record_format` argument must be a string value. {0} was the returned value.

Explanation: The type sub-property must be a string value.

System action: None.

User response: Use a string value when you are using the type sub-property. Either the implicit or varying sub-property are valid values for type. Use varying to specify one of the following blocked or spanned formats: V, VB, VS, or VBS. Data is imported by using the selected format. When you use the implicit sub-property, data is imported or exported as a stream with no explicit record boundaries.

DSEE-TFRS-00028 The `record_length` variable must be fixed. No length was defined. The returned value for the first variable-length field was {0}.

Explanation: The `record_length` variable specifies fixed-length records. The record schema must contain only fixed-length elements so that Orchestrate can calculate the record length. `Length_nbytes` explicitly specifies the record length in bytes if the record contains variable-length elements. On export, the export operator pads the records to the specified length with either zeros or the fill character, if one has been specified.

System action: None.

User response: Specify a fixed-length for the record that you import or export.

DSEE-TFRS-00029 Formatted length of fields and record ({0}) less than declared length ({1})

Explanation: When importing or exporting data you can specify a fixed length for the record. This message is issued if the length specified is shorter than the sum of the computed lengths of all the fields in the record. The fixed record length provided by the user is {0}; the computed record length is {1}.

System action: None

User response: If only part of the fixed-length record is being imported, ignore this warning. However, if the description of the fields in the record is expected to match the length of the record, the problem is with the record description.

DSEE-TFRS-00033 An input source is already defined.

Explanation: Only one input source can be defined in a schema.

System action: None.

User response: You cannot define multiple input sources in a schema. Use only one input source.

DSEE-TFRS-00035 An output destination is already defined.

Explanation: Only one output destination can be defined in a schema.

System action: None.

User response: You cannot define multiple output sources in a schema. Use only one output source.

DSEE-TFRS-00051 Missing record delimiter {0}, saw EOF instead

Explanation: End-of-file encountered when reading records that are expected to be terminated with the record delimiter {0}.

System action: None.

User response: If you encounter data files that don't have a record delimiter for the last record, ignore this warning. However, if the problem is with a data file; or if the record is not complete, additional messages will follow this message and the job will fail, or the last record will be rejected.

User response: This may also be the result of incorrectly describing the record delimiter. Specify the correct delimiter.

DSEE-TFRS-00057 The record_delim argument must be a single-character string or a null value. {0} was the returned value.

Explanation: A single-character string or null value was expected. You cannot use a multiple character delimiter.

System action: None.

User response: When you define the record_delim argument, use a single-character string, such as a newline character, a null, or one ASCII or multibyte Unicode character. If no value is specified, the default is a new line character. Use the record_delim_string argument for a multiple-character delimiter.

DSEE-TFRS-00058 The record_delim_string argument cannot be used with the record_format argument. {0} was the returned value.

Explanation: You cannot use the record_delim_string argument when you use the record_format argument.

System action: None.

User response: Remove the record_delim_string argument or the record_format argument.

DSEE-TFRS-00060 The charset property cannot be an empty string. {0} was the returned value.

Explanation: The charset property must use a valid character set name. At the field level, this property applies only to ustrings. At the record level, this property applies to the fields that do not specify a character set and to these properties that support multibyte Unicode character data. Unicode character data includes delim delim_string record_delim record_delim_string final_delim final_delim_string quote default padchar null_field date_format time_format timestamp_format.

System action: None.

User response: RUse a valid character set name, such as UTF-8.

DSEE-TFRS-00062 The ebcdic or ascii arguments cannot be used with record_format. {0} was the returned value.

Explanation: You cannot use the EBCDIC or ASCII argument when you use the record_format argument.

System action: None.

User response: Remove the EBCDIC argument or the record_format argument.

Chapter 6. TFRT: Raw type

The following topics describe various DSEE-TFRT messages.

DSEE-TFRT-00001 The raw field descriptor is not a fixed length.

Explanation: The `fixedLength()` method was called on a raw field descriptor without a fixed length. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, check the field descriptor to ensure that it is fixed length. If the field descriptor is not fixed length, change it.

DSEE-TFRT-00002 The raw field descriptor is not a bounded length.

Explanation: The `boundedLength()` method was called on a raw field descriptor without a bounded length. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, check the field descriptor to ensure that it is bounded length. If the field descriptor is not bounded length, change it.

DSEE-TFRT-00003 The raw field descriptor object already has a defined schema. The variable length cannot be set.

Explanation: The `setVariableLength()` method was called on a raw field descriptor object for which a schema is defined. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, check the field descriptor to ensure that the `setVariableLength()` method was not called. If the `setVariableLength()` method was called, remove it.

DSEE-TFRT-00004 The size argument must be a positive value.

Explanation: The `setFixedLength()` or `setBoundedLength()` method was called on a raw field descriptor object with a value that is less than or equal to zero. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, check the field descriptor to ensure that the `setFixedLength()` or `setBoundedLength()` method was not called on a raw field descriptor object with a value that is less than or equal to zero. If either of these methods were called, remove them.

DSEE-TFRT-00005 The raw field descriptor object already has a schema set. The fixed length cannot be set.

Explanation: The `setFixedLength()` method was called on a raw field descriptor object for which a schema is set. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, check the field descriptor to ensure that the `setFixedLength()` method was not called. If the `setFixedLength()` method was called, remove it.

DSEE-TFRT-00006 The raw field descriptor object already has a schema set. The bounded length cannot be set.

Explanation: The `setBoundedLength()` method was called on a raw field descriptor object for which a schema is set. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, check the field descriptor to ensure that the `setBoundedLength()` method was not called. If the `setBoundedLength()` method was called, remove it.

DSEE-TFRT-00007 The align argument is not a power of 2.

Explanation: The `setAlignment()` method was called on a raw field descriptor object with a value which is not a power of 2 (n^2). If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, ensure that the `setAlignment()` method was not called on a

raw field descriptor object with a value other than n^2 . Use the `setAlignment()` method only on a raw field descriptor object with a value that is n^2 .

DSEE-TFRT-00008 The raw field descriptor object already has a schema set. The alignment cannot be set.

Explanation: The `setAlignment()` method was called on a raw field descriptor object for which a schema is set. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, check the field descriptor to ensure that the `setAlignment()` method was not called. If the `setAlignment()` method was called, remove it.

DSEE-TFRT-00009 The raw field descriptor object does not have a schema set.

Explanation: The `schema()` or `intfSchema()` method was called on a raw field descriptor object for which a schema is not set. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, check the field descriptor to ensure that the `schema()` or `intfSchema()` method was not called. If either the `schema()` or `intfSchema()` method was called, remove it.

DSEE-TFRT-00010 The raw field descriptor object must have a concrete schema.

Explanation: The `setSchema()` method was called on a raw field descriptor object that does not have a concrete schema. A schema that is not concrete contains schema variables or nontyped fields. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, check the field descriptor to ensure that the `setSchema()` method was not called. If the `setSchema()` method was called, remove it.

DSEE-TFRT-00011 The raw field descriptor object must not be an intact schema.

Explanation: The `setSchema()` method was called on a raw field descriptor object that has an intact schema. An intact schema has one intact raw field or the intact property. If you are using custom code, a syntax error can cause this error. If you are not using custom code,

an internal software error occurred.

System action: None.

User response: If you are using custom code, ensure that the `setSchema()` method was not called on a raw field descriptor object that has an intact schema. If the `setSchema()` method was called, remove it.

DSEE-TFRT-00012 Intact records may not be nested.

Explanation: The `setSchema()` method was called on a raw field descriptor object with a schema that contains an intact raw field. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, ensure that the `setSchema()` method was not called on a raw field descriptor object with a schema that contains an intact raw field. If the `setSchema()` method was called, remove it.

DSEE-TFRT-00013 The record type must not be implicit.

Explanation: The `setSchema()` method was called on a raw field descriptor object that contains an implicit record schema. This method can be called only on an explicit record schema. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, ensure that the `setSchema()` method was not called on a raw field descriptor object that contains an implicit record schema. If the `setSchema()` method was called, remove it.

DSEE-TFRT-00014 The record type must not be streamed.

Explanation: The `setSchema()` method was called on a raw field descriptor object that contains a streamed record schema. If you are using custom code, a syntax error can cause this error. If you are not using custom code, an internal software error occurred.

System action: None.

User response: If you are using custom code, ensure that the `setSchema()` method was not called on a raw field descriptor object which contains a streamed record schema. If the `setSchema()` method was called, remove it.

DSEE-TFRT-00015 An error occurred when processing an intact schema.

Explanation: An error occurred when the schema that is used in the setSchema() method was processed.

System action: None.

User response: No action is required.

DSEE-TFRT-00016 A return value of = was expected. The returned value was {0}.

Explanation: An equality operator was expected instead of the value that is identified in the message.

System action: None.

User response: Check the syntax of the raw field descriptor string that is being parsed. Ensure that an equality operator is included in the code.

DSEE-TFRT-00017 An integer return value was expected. The returned value was {0}.

Explanation: An equality operator followed by an integer was expected instead of the value that is identified in the message.

System action: None.

User response: Check the syntax of the raw field descriptor string that is being parsed. Ensure that an equality operator that is followed by an integer is included in the code.

DSEE-TFRT-00018 The returned value must be positive. The returned value was a negative value of {0}.

Explanation: An error occurred while parsing a raw field descriptor string where an equality operator that is followed by a positive nonzero integer was expected instead of the value that is identified in the message.

System action: None.

User response: Check the syntax of the raw field descriptor string that is being parsed. Ensure that an equality operator that is followed by a positive nonzero integer is included in the code.

DSEE-TFRT-00019 An error occurred when parsing the raw field descriptor string. {0} was returned.

Explanation: An error occurred when parsing the field descriptor string.

System action: None.

User response: No action is required.

DSEE-TFRT-00020 An end-of-file character was expected. The returned value was {0}.

Explanation: While parsing a raw field descriptor string, unexpected characters were encountered after the schema. An end-of-file character was expected instead of the value that is identified in the message.

System action: None.

User response: Ensure that the string contains an end-of-file character immediately following the identifier.

DSEE-TFRT-00021 An error occurred when setting the schema.

Explanation: An error occurred in the setSchema() method.

System action: None.

User response: No action is required.

DSEE-TFRT-00022 The length must be positive. The returned value was {0}.

Explanation: The length that is specified in the syntax is less than or equal to zero.

System action: None.

User response: Change the length in the code to a positive value.

DSEE-TFRT-00023 An end-of-file character was expected. The returned value was {0}.

Explanation: An end-of-file character was expected instead of the value that is identified in the message.

System action: None.

User response: Ensure that an end-of-file character is used in the appropriate position in the code.

DSEE-TFRT-00024 An align was expected. The returned value was {0}.

Explanation: An align value was expected instead of the value that is identified in the message.

System action: None.

User response: Ensure that an align value is used in the correct location in the code.

DSEE-TFRT-00025 A power of 2 was expected. The returned value was {0}.

Explanation: A power of 2 (n^2) value was expected instead of the value that is identified in the message.

System action: None.

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User response: Ensure that a n^2 value is used in the correct location in the code.

DSEE-TFRT-00026 An align, length, or max was expected. The returned value was {0}.

Explanation: An align, length, or max value was expected instead of the value that is identified in the message.

System action: None.

User response: Ensure that an align, length, or max value is used in the correct location in the code.

DSEE-TFRT-00027 An end-of-file was expected. The returned value was {0}.

Explanation: An end-of-file character was expected instead of the value that is identified in the message.

System action: None.

User response: Ensure that an end-of-file character is used in the correct location in the code.

DSEE-TFRT-00028 An integer, align, length, max or end-of-file value was expected. The returned value was {0}.

Explanation: This message is produced when the operator parses the raw field in the schema. At this point in the parsing, the operator looked for one of these possible items:

- Integer that provides the length of a fixed-length raw field
- One of these keywords: align, length, or max
- End of the field definition (EOF)

Explanation: An integer, align, length, or max was expected instead of the value that is identified in the message.

System action: None.

User response: Ensure that an integer, align, length, or max value is used in the correct location in the code.

DSEE-TFRT-00034 An align, length, max or variable_max value was expected. The returned value was {0}.

Explanation: An align, length, max or variable_max value was expected instead of the value that is identified in the message.

System action: None.

User response: Ensure that an align, length, max or variable_max value is used in the correct location in the code.

Chapter 7. TFST: String type

The following topics describe DSEE-TFST messages.

DSEE-TFST-00001 The string field is not fixed length.

Explanation: The string field descriptor is attached to a string field that is not fixed length. The application called a function that requires that the string field is fixed length.

System action: None.

User response: Use a fixed-length string field, or do not call this function.

DSEE-TFST-00002 The string field is not bounded length.

Explanation: The string field descriptor is attached to a string field that is not bounded length. Bounded length means that the length does not exceed a specified limit. The application called a function that requires that the field is bounded length.

System action: None.

User response: Use a bounded length field, or do not call this function.

DSEE-TFST-00003 The size argument must be positive.

Explanation: The size that was specified for the size argument was less than or equal to zero.

System action: None.

User response: Change the size to a positive value.

DSEE-TFST-00004 The size argument must be less than {integer}.

Explanation: The size that was specified for the size argument was larger than the indicated amount. The size cannot exceed {integer}.

System action: None.

User response: Change the size value to less than {integer}.

DSEE-TFST-00005 A return value of '=' was expected. The returned value was {value}.

Explanation: The parameter list for a string field contains a syntax error. The = (equal sign) character was expected instead of the value that is identified in the message.

System action: None.

User response: Check the syntax for errors. A property name was specified that expects a value assigned to it. Make sure property names have assigned values, for example, { length=30 }.

DSEE-TFST-00006 The padchar attribute must be a single-uchar string. The returned value was {value}.

Explanation: The padchar attribute must contain a single Unicode character.

System action: None.

User response: Change the padchar attribute so that it contains a single Unicode character.

DSEE-TFST-00007 The padchar must be between 0 and 65535. The returned value was {integer}.

Explanation: The specified padchar attribute is outside the range of valid Unicode values. Numeric assignments are allowed only within the recognized Unicode range.

System action: None.

User response: Change the padchar attribute so that it is between 0 and 65535.

DSEE-TFST-00008 The padchar must be a single-char string. The returned value was {value}.

Explanation: The padchar attribute must contain a single native character.

System action: None.

User response: Change the padchar attribute so that it contains a single native character. A native character is a character in the Orchestrate OS character set. ASCII characters such as a single space or period are recommended because they are portable across the commonly used character sets.

DSEE-TFST-00009 The padchar must be between 0 and 255. The returned value was {integer}.

Explanation: The specified padchar attribute is outside the range of valid native character values. A native character is a character in the Orchestrate OS character set. ASCII characters such as a single space or period

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are recommended because they are portable across the commonly used character sets. Numeric assignments are only allowed within the recognized range of between 0 and 255.

System action: None.

User response: Change the padchar value so that it is between 0 and 255.

DSEE-TFST-00010 The length must be positive. The returned value was {integer}.

Explanation: The specified length for a string field was less than or equal to zero.

System action: None.

User response: Change the length to a positive value.

DSEE-TFST-00011 An integer value was expected. The returned value was {integer}.

Explanation: A syntax error occurred in a string parameter list. An integer was expected instead of the value that is identified in the message.

System action: None.

User response: Check the syntax for errors. The syntax contains a property name that expects an integer value assigned to it. For example, { max=thirty } is invalid because the max keyword expects an integer value such as { max=30}.

DSEE-TFST-00012 The maximum length must be positive. The returned value was {integer}.

Explanation: The maximum length that is assigned to a string field cannot be negative or zero.

System action: None.

User response: Change the maximum length for the string field to a positive value.

DSEE-TFST-00013 max, padchar, or an integer literal was expected. The returned value was {value}.

Explanation: A syntax error occurred in a string field parameter list.

System action: None.

User response: Check the syntax for errors.

DSEE-TFST-00014 Comma character or EOF was expected. The returned value was {value}.

Explanation: A property assignment was not ended by a comma character or an end-of-file character.

System action: None.

User response: Use a comma character or an end-of-file character to end the property assignment.

DSEE-TFST-00015 max, variable_max, padchar, or an integer literal was expected. The returned value was {value}.

Explanation: A syntax error occurred in a string field parameter list.

System action: None.

User response: Check the syntax for errors.

Chapter 8. TOIX: Import and export

The following topics describe various DSEE-TOIX messages.

DSEE-TOIX-00007 The schema being exported contains the inRec field. This does not match the name of the input schema variable for this operator.

Explanation: The name of the field being exported does not match the name of the input schema variable.

System action: None.

User response: Edit the schema so that the name of the input schema variable matches the name of the schema being exported in the inRec field.

DSEE-TOIX-00008 The {integer} record number was not exported. The export process will continue.

Explanation: The {integer} record number could not be exported. The results could not be written to a record. If you were attempting to export data to a file, the entire record will be omitted from the file.

System action: None.

User response: The data might not match the format that was specified in the export schema. Check for inconsistencies between the values of the data that you want to export and the export schema. For example, if a null field does not contain a null_value specification, the export value specification, the export process will fail.

DSEE-TOIX-00009 No additional reports will be generated from this field.

Explanation: This message is for information only.

System action: None.

User response: None required.

DSEE-TOIX-00011 The field export is complete. {0} records were converted successfully. {1} records were rejected.

Explanation: The export process is complete.

System action: None.

User response: If no records were rejected, no additional action is required. If records were rejected, check the record log for information about the rejected records.

DSEE-TOIX-00012 Import field "{0}" was not found in the input data set schema.

Explanation: The field {0} was specified as the source of the data for the field import, but the field does not exist in the input dataset.

System action: None.

User response: Specify a field that exists in the input dataset.

DSEE-TOIX-00013 The import field {0} must be a string or raw type.

Explanation: The import field {0} in the schema was not the correct type. The type must be string or raw.

System action: None.

User response: Ensure that the import field in the schema is string or raw type.

DSEE-TOIX-00015 Import field "{0}": import validation failed.

Explanation: The import schema specified for import from the field {0} is invalid. This message will be followed by additional messages describing the problem in detail.

System action: None.

User response: Use the subsequent messages to correct the import schema.

DSEE-TOIX-00017 The import schema contains a field named outRec. This name was already used for an output schema variable for this operator.

Explanation: The field in the import schema must use a unique name.

System action: None.

User response: Change the name of the field used in the import schema to a name that is different than the output schema variable name.

DSEE-TOIX-00018 Import unsuccessful at record {0}.

Explanation: A file import operation failed while the file import operator (Sequential File stage) processed record {0} of the input file. This message is preceded by an explanation of the failure.

System action: The system will take the action specified by the Import stage. The actions might be any of the following ones:

- Drop the record and continue
- Send the record to a reject link and continue
- Stop the job abnormally

User response: No action is required.

**DSEE-TOIX-00019 The {0} record was not imported.
The import process will continue.**

Explanation: An error occurred while importing the {0} record.

System action: None.

User response: The data might not match the format that was specified in the import schema. Check for inconsistencies between the values of the data that you want to import and the import schema. For example, if a null field does not contain a null_value specification, the export value specification, the import process will fail. The error messages that appear on your monitor following this one contain additional information about the record that was not successfully imported.

DSEE-TOIX-00022 Field import complete; {0} records converted successfully, {1} rejected.

Explanation: The number of records for which import was successful ({0}) or unsuccessful ({1}), per partition.

System action: None.

User response: None; this message is informational.

DSEE-TOIX-00036 <APT_RealFileExportOperator in export,0> write() failed: Broken pipe.

Explanation: Use of a filter with fileset output requires only one file per partition, but partition {0} of fileset contains {1} files.

System action: None.

User response: Check to ensure that there is at least one file per partition.

DSEE-TOIX-00048 The {0} file already exists.

Explanation: The {0} file already exists. The file cannot be overwritten.

System action: None.

User response: To write results to a different file, use a unique file name.

DSEE-TOIX-00078 A filter cannot be specified with an output destination.

Explanation: A filter was specified with an output destination.

System action: None.

User response: When using a filter, do not specify an output destination. Instead, specify an output data set using the filter operator properties.

DSEE-TOIX-00079 Only file, fileset, or stdout can be specified.

Explanation: File, fileset or stdout where specified together. These variables cannot be used together.

System action: None.

User response: Edit the schema so that file, fileset or stdout are not specified together.

DSEE-TOIX-00080 A filter cannot be specified with a file set.

Explanation: A filter was specified with a file set.

System action: None.

User response: When using a filter, do not specify a file set. Use the -fileset option with the lookup operator to create and use lookup tables to modify the input data set.

DSEE-TOIX-00082 The -failRejects option and the -saveRejects options cannot be used together.

Explanation: The -failRejects option and the -saveRejects options were both used in the schema. -Rejects is an import operator option that can be used with either the continue, fail, or save parameters. Continue is the default parameter. Only one parameter can be used at a time.

System action: None.

User response: Remove either the -failRejects or -saveRejects option. Use -failRejects to configure the operator to fail and terminate the application. Use -saveRejects to save output data set 1 to hold rejected records.

DSEE-TOIX-00083 A filter cannot be used with an output destination.

Explanation: A filter was specified with an output destination.

System action: None.

User response: When using a filter, do not specify an output destination.

DSEE-TOIX-00084 A file set cannot be used with a file.

Explanation: Both a file and file set were specified in the schema. A file set is a text file that contains a list of source files to import. The file set must contain one file name per line. The name of the file has the form file_name.fs, where .fs identifies the file as a file set.

System action: None.

User response: Specify either a file or a file set in the schema. Both a file and file set cannot be specified in the same schema.

DSEE-TOIX-00085 The -file option might not be used with the -destination option.

Explanation: The -file option was specified with the -destination option. These options cannot be used together.

System action: None.

User response: Remove the -file option.

DSEE-TOIX-00086 The -destination option cannot be used with the -file option.

Explanation: The -destination option was specified with the -file option. These options cannot be used together.

System action: None.

User response: Remove the -destination option.

DSEE-TOIX-00087 The -destination option cannot be used with the -fileset option.

Explanation: The -destination option was specified with the -fileset option. These options cannot be used together.

System action: None.

User response: Remove the -destination option.

DSEE-TOIX-00088 The -destinationlist option cannot be used with the -file option.

Explanation: The -destinationlist option was specified with the -file option. These options cannot be used together.

System action: None.

User response: Remove the -destinationlist option.

DSEE-TOIX-00089 The -destinationlist option cannot be used with the -fileset option.

Explanation: The -destinationlist option was specified when using the -fileset option. These options cannot be used together.

System action: None.

User response: Remove the -destinationlist option.

DSEE-TOIX-00091 The -fileset option cannot be used with the -destination option.

Explanation: The -fileset option was specified with the -destination option. These options cannot be used together.

System action: None.

User response: Remove the -fileset option.

DSEE-TOIX-00093 The -append option cannot be used with the following options: -create, -replace, -discard_records, -discard_schema_and_records and -overwrite.

Explanation: The -append option was used when using the -create, -replace, -discard_records, -discard_schema_and_records or -overwrite options.

System action: None.

User response: Remove the -append option.

DSEE-TOIX-00096 A schema must be specified when you are creating or replacing a file set, and when discarding the previous schema and records.

Explanation: A schema was not specified when you are creating or replacing a fileset, or when you are discarding the previous schema and records.

System action: None.

User response: Specify a schema to use when you are creating or replacing a fileset, or when you are discarding the previous schema and records.

DSEE-TOIX-00097 Nothing can be imported into the existing fileset {0} unless either the -replace, -discard_records, -discard_schema_and_records, or -append options is specified.

Explanation: The import operation will not complete successfully unless one the variables -replace, -discard_records, -discard_schema_and_records, or -append options is specified. Use -replace to remove the existing file set and create a new one. Use -discard_records to keep the existing files and schema listed in filesetName.fs but discard the records and create the file set if it does not exist. Use -discard_schema_and_records to keep existing files listed in filesetName.fs but discard the schema and records and create the file set if it does not exist. Use -append to add exported data to an existing file.

System action: None.

User response: Specify either the `-replace`, `-discard_records`, `-discard_schema_and_records`, or `-append` option.

DSEE-TOIX-00100 The file set {0} does not exist. A schema must be specified.

Explanation: The specified file set does not exist. A schema must be specified when creating a file set.

System action: None.

User response: Specify the schema to use when the file set is created.

DSEE-TOIX-00106 The fileset {0} exists. Either the `-replace`, `-discard_records`, `-append`, or `-discard_schema_and_records` option must be specified.

Explanation: Specify `-replace` to remove the existing fileset and replace it with a new one. Specify `-discard_records` to keep the existing files and schema listed in `filesetName.fs` but discard the records and create the file set if it does not exist. Specify `-discard_schema_and_records` to keep existing files listed in `filesetName.fs` but discard the schema and records and create the file set if it does not exist. Specify `-append` to add exported data to an existing file.

System action: None.

User response: Specify either the `-replace`, `-discard_records`, `-append`, or `-discard_schema_and_records` option in the export schema.

DSEE-TOIX-00108 The `addInputFile` function cannot be called if a file set is specified.

Explanation: The `addInputFile` function was called when a file set was specified.

System action: None.

User response: Remove the `addInputFile` function. The `addInputFile` function cannot be called when a file set is specified.

DSEE-TOIX-00109 The `addInputFile` function cannot be called if a data source is specified.

Explanation: The `addInputFile` function was called when a data source was specified.

System action: None.

User response: Remove the `addInputFile` function. The `addInputFile` function cannot be called when a data source is specified.

DSEE-TOIX-00100 The file set {0} does not exist. A schema must be specified.

Explanation: The specified file set does not exist. A schema must be specified when creating a file set.

System action: None.

User response: Specify the schema to use when the file set is created.

DSEE-TOIX-00111 The `addInputSource` function cannot be called if a file is specified.

Explanation: The `addInputSource` function was called when a file was specified.

System action: None.

User response: Remove the `addInputSource` function. The `addInputSource` function cannot be called when a file is specified.

DSEE-TOIX-00146 An import segment size was specified for a nonsegmented step.

Explanation: Import segment sizes cannot be specified for nonsegmented steps. The import segment size will be ignored.

System action: None.

User response: No action is required.

DSEE-TOIX-00154 Import warning at record {0}.

Explanation: A file import operation discovered an unusual condition while the file import operator (Sequential File stage) processed record {0} of the input file. This message is preceded by an explanation of the failure.

System action: The system will take the action specified by the Import stage. The actions might be any of the following ones:

- Drop the record and continue
- Send the record to a reject link and continue
- Stop the job abnormally

User response: No action is required.

DSEE-TOIX-00155 Progress: {0} percent of this segment is complete.

Explanation: This message displays the percent of the operation that has completed successfully.

System action: None.

User response: No action is required.

DSEE-TOIX-00156 Progress: {0} percent.

Explanation: This message displays the percent of the operation that has completed successfully.

System action: None.

User response: No action is required.

DSEE-TOIX-00159 Short read encountered on import; this most likely indicates one of the following possibilities:\n1) the import schema you specified is incorrect\n2) invalid data (the schema is correct, but there is an error in the data).

Explanation: A variable-length record was being imported, and the record was not long enough to contain all of the fields being imported. This may indicate a problem with the record description or the actual data. It may also indicate a final record that lacks a delimiter.

System action: None.

User response: Correct the record description, or ensure that the data is correct.

DSEE-TOIX-00163 Import complete; {0} records imported successfully, {1} rejected.

Explanation: This message reports the number of records for which import was successful ({0}) or unsuccessful ({1}), per partition.

System action: None.

User response: None. This message is informational.

DSEE-TOIX-00170 The import operator cannot be used with node maps.

Explanation: An import operator was given an explicit node map, that is not permitted.

System action: None.

User response: Remove the node map. If the intent is to import files on multiple nodes, specify multiple input files and provide a node name as part of the file specification.

DSEE-TOIX-00179 Import error at record {0}.

Explanation: There was a problem importing from the field at record {0} in the input dataset and the -failRejects option was specified. This message will be preceded by message TFIG0201, which provides additional information about the problem.

System action: The job is aborted.

User response: If the intent was to have the job abort when invalid data is encountered, no response is required. Otherwise:

- Remove the -failRejects option. This will cause records containing invalid data to be dropped.
 - Specify the -saveRejects option and provide a reject dataset.
-

DSEE-TOIX-00189 The -firstLineColumnNames option is not supported for fixed-length records.

Explanation: The -firstLineColumnNames option was selected, but the record type that is specified in the import schema is fixed width. When you use the -firstLineColumnNames option, the record type in the import schema must contain a record delimiter in the first line of data. The first line contained in an import file is used as a throwaway header line.

System action: None.

User response: Use a delimited record type, or remove the first line that contains the column names from the input source.

Chapter 9. TOSO: Sort stage

The following topics describe various DSEE-TOSO messages.

DSEE-TOSO-00003

APT_CombinedOperatorController(14),7:
Fatal Error: Fork failed: Not enough
space

Explanation:

System action: None.

User response:

DSEE-TOSO-00006 Fork failed: {0}

Explanation: The fork system call failed while creating a subprocess needed for sorting. The error string for the errno returned by fork is {0}.

System action: None.

User response: Resource shortage such as insufficient real memory or swap space, or too small a value for the kernel parameter maxuproc.

DSEE-TOSO-00031 Unexpected empty input file.

Explanation: The detected input file is empty. Initial records from input file are read, but the input is empty.

System action: None.

User response: During reading the records from input file EOF detected, Check with input files.

DSEE-TOSO-00032 Scratch readRecord failed: {0}

Explanation: Reading records failed {0}. There was an error when reading the records from input.

System action: None.

User response: Check the input files for errors.

DSEE-TOSO-00033 Write failed: {0}

Explanation: Nothing can be written because the output buffer is Null.

System action: None.

User response: Change the output buffer to a value that is not Null.

DSEE-TOSO-00066 Argument must have at least one sort key.

Explanation: The argument does not have a sort key.

System action: None.

User response: Provide at least one sort key to the argument.

DSEE-TOSO-00071 No sort key(s) was specified.

Explanation: There is no sort key(s) specified in the stage, so there is nothing to sort.

System action: None.

User response: Set a job parameter for the sort key.

DSEE-TOSO-00072 Sort key field not found: {0}

Explanation: The field specified by user as a sort key {0} is not found in input schema.

System action: None.

User response: Check the input schema to ensure it contains a sort key.

DSEE-TOSO-00073 Sort key field must not be a vector: {0}

Explanation: Sorting with key field as a vector is not allowed. Perhaps {0} is a vector.

System action: None.

User response: Check the input schema. The schema variable field must be eScalar.

DSEE-TOSO-00074 Same key field specified more than once: {0}

Explanation: The same key field {0} cannot be specified more than once.

System action: None.

User response: Check to ensure that the same key field is not specified more than once.

DSEE-TOSO-00075 An error has occurred while setting up the hash partitioner.

Explanation: An error occurred during the setup of the hash partitioner.

System action: None.

User response: Ensure that the hash partitioner was set up properly.

Chapter 10. TOSH: Orchestrate syntax

The following topics describe various DSEE-TOSH messages.

DSEE-TOSH-00000 Could not locate operator definition, wrapper, or UNIX command for "db2read".

Explanation: Could not locate operator definition, wrapper, or UNIX command for "db2read".

System action: None.

User response: Check that all needed libraries are preloaded, and check the PATH for the wrappers.

DSEE-TOSH-00384 Could not locate operator definition, wrapper, or UNIX command for "oraread".

Explanation: System could not locate operator definition, wrapper, or UNIX command for "oraread".

System action: None.

User response: Check that all needed libraries are preloaded, and check the PATH for the wrappers.

DSEE-TOSH-00049 Parameter specified but not used in flow: {0}

Explanation: {0} is the name of a job parameter that is defined in the set of job parameters, but is not referred to anywhere in the job.

This message might indicate that a job parameter was defined with one name, but mistakenly referred to by using a different name. If this situation is not the case, you can ignore this message.

Some job parameters are automatically provided for all jobs. Because many jobs do not use these parameters, this message often is displayed for these parameters: DSHostName, DSInstallTag, DSJobController, DSJobInvocationId, DSJobName, DSJobNumberAndInvocationId, DSJobNumber, DSJobStartDate, DSJobStartTimestamp, DSJobWaveNo, DSProjectDirectory, DSProjectMapName, DSProjectName, and DSTCPPort.

System action: None.

User response: If the message indicates a mismatch between a parameter definition and its reference, correct the mismatch.

DSEE-TOSH-00205 PATH search failure

Explanation: An unknown operator was requested. This message is followed by a more detailed message that includes the name of the operator that was requested and additional information about the error.

System action: None.

User response: A library is missing from the LD_LIBRARY_PATH or LIBPATH environment variable, or that the directory containing an executable is missing from the PATH environment variable.

Chapter 11. DSEE-Miscellaneous messages

The following topics describe various messages of the DSEE type.

DSEE-TFCC-00003 U_TRUNCATED_CHAR_FOUND encountered.

Explanation: An error occurred when converting a Unicode string that was encoded as UTF-16 to a character in an 8-bit code page. The string terminated in the middle of a 2-byte UTF-16 code point. A truncated character, only part of a byte unit, was found by the conversion while performing a string conversion from a multi-byte encoding.

System action: None.

User response: Verify that a compatible and supported character set is in use with respect to the data. Alternatively, verify that the data being encoded is not corrupted or otherwise incompatible with 8-bit to 16-bit conversions.

DSEE-TFCC-00016 Invalid character(s) ({0}) found converting Unicode string (code point(s): {1}) to codepage {2}, substituting.

Explanation: The Unicode character {0} that is not valid in code page {2} was encountered while converting a string from UTF-16 to the specified code page. The appropriate substitution character was provided in its place. {1} is the string being converted; this string helps you track down the source of the problem.

System action: The invalid character is replaced in the target string by the substitution character.

User response: When the UTF-16 characters are converted to another code page, ensure that those characters exist in that code page.

DSEE-TFCC-00017 Invalid character(s) ({0}) found converting string (code point(s): {1}) from codepage {2} to Unicode, substituting.

Explanation: The character {0} is not a valid character in code page {2}. That character was encountered while converting a string from the specified code page to UTF-16, and the appropriate substitution character was provided in its place. {1} is the string being converted; this string helps you identify the source of the problem.

System action: The invalid character is replaced in the target string by the substitution character.

User response: Ensure that characters being converted from the specified code page to UTF-16 are valid for that code page.

DSEE-TFCF-00014 The configuration does not contain the invoking node {0}.

Explanation: Configuration file does not contain the node the on which the job is being started. {0} is the name of that node.

System action: None.

User response: Add a node definition to the configuration file for the node on which the job is being started.

DSEE-TFDE-00031 APT_Decimal::assignFromString: the source string ({0}) is out of range for the decimal with precision {1}.

Explanation: Error occurred when converting a string to a decimal number. The string ({0}) has too many digits to the left of the decimal separator for the specified precision ({1}).

System action: None.

User response: Correct the invalid string, or (if this is occurring during an import operation) specify the desired error handling for invalid strings.

DSEE-TFDE-00030 APT_Decimal::assignFromString: invalid format for the source string.

Explanation: An error occurred when converting a string to a decimal number. The string must consist of:

- optional leading white space (blanks or tabs)
- an optional + or - sign (if absent, the number is assumed to be positive)
- 0 or more decimal digits (0-9) to the left of the decimal separator
- an optional decimal separator (locale dependent)
- 0 or more decimal digits to the right of the decimal separator
- optional trailing white space

System action: None

User response: Correct the invalid string, or (if this is occurring during an import operation) specify the desired error handling for invalid strings.

DSEE-TFON-00004 Duplicate name registration for: {0}, {1}.

Explanation: An operator is defined more than once with the same name. The operator name and C++ class

name of the second operator are provided as {0} and {1}.

System action: None.

User response: Make sure that there are no multiple versions of the Orchestrate libraries listed.

DSEE-TFOR-00073 A sequential operator cannot preserve the partitioning of the parallel data set on input port {0}.

Explanation: A link between a parallel stage and an input port {0} of a sequential stage has the preserve partitioning flag set. A link between parallel and sequential stages is inherently incapable of retaining the partition of the parallel stage output. This message is issued even if the parallel stage has only a single partition.

System action: None.

User response: Although this message is informational, you can eliminate it by clearing the preserve partitioning flag on the link.

DSEE-TFOR-00089 The runLocally() of the operator failed.

Explanation: Job execution that resulted in an operator either:

1. Returning a status of APT_StatusFailed
2. Writing a message into the log with a severity higher than "warning" will cause the entire job to fail.

This will cause the entire job to fail.

System action: None.

User response: View additional messages in the log that describe the problem.

DSEE-TFPA-00012 Warning: the PWD environment variable is not defined. Remote process startup may be unsuccessful as a result. If your ORCHESTRATE job does not start up correctly, please set your PWD variable to a value that will work on all nodes of your system.

Explanation: The environment variable PWD is usually maintained by the system shell and contains the full path of the current working directory (PWD stand for "Print Working Directory"). Job startup requires that this directory be available on all nodes used to execute the job, and the PWD variable is used during startup to insure that all nodes are in that directory. If PWD is not set, parallel startup will be attempted anyway, but may fail.

System action: None.

User response: Make sure the PWD is not being

explicitly unset before the job is run. This might happen in a shell startup script (such as .profile, .cshrc, .kshrc or .bashrc, or one of the system-wide startup scripts in /etc.)

DSEE-TFPA-00015 Warning: unable to chdir({0}): {1}

Explanation: Job startup attempted to set the current working directory (using the chdir system call) to the directory specified by {0}; chdir failed and returned the error string noted by {1}.

Explanation: By default, the working directory on each node is set to the value of the PWD environment variable at the time the job starts. Change this by setting the environment variable APT_WORKING_DIRECTORY to:

- CURRENT - use the current working directory (the default)
- PROGRAM - use the directory containing the osh executable, normally defined by \$APT_ORCHHOME/bin
- an arbitrary path

Since the working directory is used to resolve non-absolute path names, this may cause the job to fail.

System action: None

User response: Ensure that the specified directory is accessible (exists, and has permissions that allow it to be set as the working directory) on all of the nodes that will be used to execute the job. This may require NFS mounting that directory.

DSEE-TFPA-00017 Warning: the value of the PWD environment variable ({0}) does not appear to be a synonym for the current working directory ({1}). The current working directory will be used, but if your ORCHESTRATE job does not start up correctly, you should set your PWD environment variable to a value that will work on all nodes of your system.

Explanation: The PWD environment variable value, {0}, is used to set the working directory on each node at job startup. The resulting working directory, {1}, as determined by getcwd, is not the same.

System action: None

User response: The working directory in which the job starts, as described by PWD, has a path different than that returned by getcwd. This may be the result of using relative paths (such as ../../home/myid) as arguments to cd, or because of NFS automounter behavior. If necessary, set PWD using an absolute path that is the same on all nodes used to execute the job.

DSEE-TFPM-00279 Caught ORCHESTRATE exception {0}{1}

Explanation: An unhandled exception was caught during execution, either in the main program or in a parallel process (as indicated by {0}). A description of the exception follows as {1}.

Note: The error location is not correctly localized.

System action: None

User response: This message will usually be preceded by a message that describes the condition causing the error.

DSEE-TFPM-00356 ** Parallel startup failed ****
This is usually due to a configuration error, such as not having the Orchestrate install directory properly mounted on all nodes, rsh permissions not correctly set (via /etc/hosts.equiv or .rhosts), or running from a directory that is not mounted on all nodes. Look for error messages in the preceding output.**

Explanation: Startup of the parallel job failed. This will be preceded by a set of messages describing the status of the job on each node at the time when the failure occurred.

System action: None.

User response: Verify that the software is properly installed on all nodes in the configuration file. Verify that the user ID used to run the job is authorized for all nodes, and that passwordless rsh or ssh is working correctly on all nodes.

DSEE-TFPX-00002 Null archive

Explanation: Internal software error.

System action: None.

User response: Rerun the failing job with DS_PXDEBUG and APT_TRACE_PERSISTENCE set and analyze the job logs.

DSEE-TFRS-00029 Formatted length of fields and record ({0}) less than declared length ({1})

Explanation: When importing or exporting data you can specify a fixed length for the record. This message is issued if the length specified is shorter than the sum of the computed lengths of all the fields in the record. The fixed record length provided by the user is {0}; the computed record length is {1}.

System action: None

User response: If only part of the fixed-length record is being imported, ignore this warning. However, if the

description of the fields in the record is expected to match the length of the record, the problem is with the record description.

DSEE-TFRS-00051 Missing record delimiter {0}, saw EOF instead

Explanation: End-of-file encountered when reading records that are expected to be terminated with the record delimiter {0}.

System action: None.

User response: If you encounter data files that don't have a record delimiter for the last record, ignore this warning. However, if the problem is with a data file; or if the record is not complete, additional messages will follow this message and the job will fail, or the last record will be rejected.

User response: This may also be the result of incorrectly describing the record delimiter. Specify the correct delimiter.

DSEE-TLCL-00007 No collation sequence found for {0}, using default locale {1}

Explanation: A collation sequence for the requested locale {0} could not be found, and the collation sequence for the default locale {1} is being used..

System action: None.

User response: Incorrect locale setting. The means of setting the locale is system-dependent, but for most Unix system the LANG environment variable is used.

DSEE-TLIC-00003 DataStage has found more CPUs on your system than your current license allows.

Explanation: The number of CPUs available for execution on all of the nodes in the configuration file is determined at job startup and compared with the number of CPUs the software has been licensed for. If the number of CPUs exceeds the number licensed, this warning is issued.

System action: None.

User response: Reduce the number of CPUs available by removing nodes from the configuration file or obtain a license with additional capacity.

DSEE-TOMG-00029 Master record ({0}) is a duplicate

Explanation: More than one master record in the master input link of a Merge stage has the same merge keys.

System action: Only the first master record with a given set of merge keys will be merged with an update record. The action on subsequent master records with

DSEE-TOSH-00205 • DSEE-TUTL-00058

that set of merge keys depends on the other options to the stage.

User response: Specify the action to take on unmerged master records. You can configure the stage to drop unmerged master records or to silently allow unmerged master records.

DSEE-TOSH-00205 PATH search failure

Explanation: An unknown operator was requested. This message is followed by a more detailed message that includes the name of the operator that was requested and additional information about the error.

System action: None.

User response: A library is missing from the LD_LIBRARY_PATH or LIBPATH environment variable, or that the directory containing an executable is missing from the PATH environment variable.

DSEE-TUTL-00031 The open files limit is {0}; raising to {1}.

Explanation: The soft limit on the number of files that may be open is {0}; it has been increased at job startup time to {1}. This is done because parallel jobs often require a large number of files be open simultaneously.

System action: None.

User response: None. This message is informational.

DSEE-TUTL-00057 Unrecognized module name "{0}" in environment variable APT_DEBUG_MODULE_NAMES

Explanation: The module {0} was not recognized as a valid module name for debugging. This message is generated at program startup, before most operator libraries are dynamically loaded and thus does not necessarily indicate that the module name is incorrect.

System action: None.

User response: No action is required.

DSEE-TUTL-00058 Module debug messages on for {0}

Explanation: Debugging is enabled for the {0} module. This message is a result of specifying the module name with the APT_DEBUG_MODULE_NAMES environment variable. This variable can be set to one or more module names, which are separated by spaces. Only enable debugging at the request of IBM Software Support.

System action: The debugging actions for the specified module are taken.

User response: IBM Software Support can provide an appropriate action to take after enabling debugging.

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