IBM InfoSphere Information Server
Version 9 Release 1

Parallel Engine Message Reference

IBM
Note

Before using this information and the product that it supports, read the information in "Notices and trademarks" on page
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
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCGE</td>
<td>generator (used by row and column generator stages)</td>
</tr>
<tr>
<td>TEOW</td>
<td>eowgenerator</td>
</tr>
<tr>
<td>TFFR</td>
<td>import operator, file read support</td>
</tr>
<tr>
<td>TFLT</td>
<td>filter operator</td>
</tr>
<tr>
<td>TMSR</td>
<td>makesubrec</td>
</tr>
<tr>
<td>TMVT</td>
<td>makevect</td>
</tr>
<tr>
<td>TOAB</td>
<td>abort</td>
</tr>
<tr>
<td>TOCA</td>
<td>changeapply</td>
</tr>
<tr>
<td>TOCC</td>
<td>changecapture</td>
</tr>
<tr>
<td>TOCK</td>
<td>configuration check operator (internal only)</td>
</tr>
<tr>
<td>TOCM</td>
<td>compare</td>
</tr>
<tr>
<td>TOCP</td>
<td>copy</td>
</tr>
<tr>
<td>TOCS</td>
<td>checksum</td>
</tr>
<tr>
<td>TOCT</td>
<td>crosstab</td>
</tr>
<tr>
<td>TODF</td>
<td>diff</td>
</tr>
<tr>
<td>TODK</td>
<td>disk description check operator (internal only)</td>
</tr>
<tr>
<td>TODS</td>
<td>describe dataset operator (internal only)</td>
</tr>
<tr>
<td>TOFD</td>
<td>fd_compute, fd_extract</td>
</tr>
<tr>
<td>TOFN</td>
<td>funnel</td>
</tr>
<tr>
<td>TOGR</td>
<td>group</td>
</tr>
<tr>
<td>TOHD</td>
<td>head</td>
</tr>
<tr>
<td>TOHP</td>
<td>hash partitioner</td>
</tr>
</tbody>
</table>
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
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
TFCE  
  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)
Chapter 1. Message reference: Parallel engine
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. TDOR: Oracle operator

The following topics describe various DSEE-TDOR messages.

DSEE-TDOR-00160  An NLS character map <{0}> is specified, but NLS_LANG is not set.

Explanation:  The NLS character map must be set to an ICU codepage which is equivalent to the character set specified by NLS_LANG.

System action:  None.

User response:  Set the NLS character map accordingly.

DSEE-TDOR-00172  Access to {0} is required but not available.

Explanation:  Required access to {0} is not available.

System action:  None.

User response:  See your database administrator for select privileges.
Chapter 3. TFDM: Data manager

The following topics describe various DSEE-TFDM messages.

**DSEE-TFDM-00028** Invalid fileset [0]: Problem with partitioning.

**Explanation:** You are attempting to delete a fileset that has files on node that is not accessible using the current configuration file. The name of the fileset is [0].

**System action:** None.

**User response:** Modify the configuration file so that it contains all the nodes specified in the fileset's descriptor file ([0]). Note that the fileset descriptor files are ordinary text files, so it is easy to determine the required nodes.

**DSEE-TFDM-00080** The dataset name is invalid: [0].

**Explanation:** The name specified for a dataset or fileset is not "valid" and the message ([0]) provides additional information regarding the nature of the problem.

**System action:** None.

**User response:** Correct the name. (It is not obvious what "valid" means.)

**DSEE-TFDM-00081** DMFileDataset cannot handle non-file-persisted descriptors.

**Explanation:** A data set name may include a "protocol" specification (such as "file:" or "http:"). In general, only "file" protocol data sets are supported for most operations. A locator with a protocol other than "file:" was associated with a file data set for the data manager. Only the file protocol is supported by this class.

**System action:** None.

**User response:** You do not have access to these classes, nor can you set the protocols. Contact IBM Software Support.

**DSEE-TFDM-00094** Error archiving ORCHESTRATE File Data Set descriptor for \[0\].

**Explanation:** The problem occurred when writing the data-set descriptor file for the data set [0]. The descriptor file is in a directory that does not exist or that you do not have write permissions for.

**System action:** None.

**User response:** Make sure the directory exists and you have write permissions.
Chapter 4. TFIG: Import and export group component layer

The following topics describe various DSEE-TFIG messages.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TFIG-00021</td>
<td>A value of 1, 2, 3, 4, or none was expected. The returned value was {0}.</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>None.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Use a value of 1, 2, 3, 4, or none.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TFIG-00023</td>
<td>The {0} property must have a string value.</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The {0} property requires that a string value is supplied.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>None.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Provide a string value for the property identified in the error message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TFIG-00024</td>
<td>A single text character {1}, whitespace, ws, end_of_record, end, or none was expected. The returned value was {0}.</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>None.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TFIG-00028</td>
<td>A single text character {0}, double text character, 1-character, or 2-character string was expected. The returned value was {1}.</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>None.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Provide either a single text character, double text character, 1-character, or 2-character string.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TFIG-00030</td>
<td>The {0} referenced field is not a linked field.</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>None.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Ensure that the referenced field is linked in the field level properties for that field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TFIG-00031</td>
<td>The {0} referenced field was not found in the same scope as the {1} text field.</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>None.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Edit the schema so that the linked field and the reference fields appear in the same scope, or use a different data format.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TFIG-00038</td>
<td>The drop property does not have a value. The returned text was {0}.</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>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 /.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>None.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Edit the schema and remove any values from the drop property.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TFIG-00040</td>
<td>The charset property cannot be used with the ascii or ebcdic properties.</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The charset property was used with either the ASCII or EBCDIC properties. These properties cannot be used together.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>None.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Do not use the charset property when using the ASCII or EBCDIC properties.</td>
</tr>
</tbody>
</table>

© Copyright IBM Corp. 2006, 2012
**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:

```plaintext
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 for 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:

```plaintext
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:

```plaintext
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:

```plaintext
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:

```plaintext
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:

```plaintext
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.

Chapter 4. TFIG: Import and export group component layer 17
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_length 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 4. TFIG: Import and export group component layer 19
Chapter 5. TFIO: Input and output

The following topics describe various DSEE-TFIO messages.

DSEE-TFIO-00032  Error in writeBlock; could not write {0}.

Explanation:  Error occurred when writing a block of data to disk in a buffer operator. The amount of data that could not be written is {0} bytes.

System action:  None.

User response:  Make sure that:

There are scratchdisk resources defined in either the default or "buffer" disk pools.

The resources defined are accessible (exist and are writable by the user) and have available space.

DSEE-TFIO-00113  APT_Communicator::pmRecvPartitionInfo: read failed, errno = {0} ({1}), status = {2}.

Explanation:  A TCP/IP read failed while setting up the connections that are used to move data between stages. The UNIX errno, error string and read status value are {0}, {1} and {2}, respectively. The failure of the data-connection setup between two player processes could be caused by the sending process failing unexpectedly or by network-related issues.

System action:  None.

User response:  Verify that the network is available to move data between the stages. If the network is active and available, restart the engine.

DSEE-TFIO-00126  waitForWriteSignal(): Premature EOF on node {0} {1}.

Explanation:  An unexpected end-of-file condition was received on a TCP/IP socket; the node on which the error occurred is {0} and the UNIX error string is {1}.

System action:  None.

User response:  Check the job log for another error condition. It can also indicate a networking problem caused by either hardware or software failure.

DSEE-TFIO-00153  Unable to allocate communication resources.

Explanation:  Attempt to allocate a shared memory buffer fails. A downstream operator potentially failed, which invalidated the communication resources.

System action:  None.

User response:  Troubleshoot the failed operator, restart the engine (if necessary), and retry the job.

DSEE-TFIO-00175  Unable to map file {0}: {1}. The error occurred on Orchestrate node {2} (hostname {3}).

Explanation:  Problem issuing a mmap call for the file named {0}. The Unix error string is reported as {1}; the configuration file node name {2} and DNS hostname {3} are reported as well.

System action:  None.

User response:  Verify that the Orchestrate node {2} on the hostname {3} has sufficient system resources, such as contiguous memory or disk space. You can also check any network-attached storage devices, if they exist.

DSEE-TFIO-00211  APT_Communicator::connectTo: connect() failed due to Unix error = {0} ({1}) on node {2} using ConnectionInfo object 'TCP, connection Host: {3} ({4}), TCP port number: {5}', RETRYING connect()}

Explanation:  A TCP/IP connect failed with Unix errno and error string provided as {0} and {1}. The DNS host name on which the failure occurred is {2}; the connect was directed at the host named by {3}, at the TCP/IP address specified by {4} (in "dotted quad" notation) and port number specified by {5}. The connect will be tried again.

System action:  None.

User response:  Make sure that the network is correctly configured.
Chapter 6. TFIX: Import and export of basic types

The following topics describe various DSEE-TFIX messages.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Description</th>
<th>System action</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TFIX-00001</td>
<td>Text cannot be used in decimal mode.</td>
<td>None</td>
<td>Contact your system administrator.</td>
</tr>
<tr>
<td>Explanation</td>
<td>Decimal mode only supports numeric values.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>System action</td>
<td>None.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>User response</td>
<td>Use a numeric value in decimal mode.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSEE-TFIX-00002</td>
<td>The c_format property cannot be used in binary representation.</td>
<td>None</td>
<td>Contact your system administrator.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The c_format property specifies a format for the scanf() function to convert string data to integer or floating point data and by the printf() function to convert integral or floating point data to string data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>User response</td>
<td>For information about the c_format property, see IBM(r) InfoSphere(tm) DataStage(r) and QualityStage(tm) Parallel Job Advanced Developer’s Guide.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSEE-TFIX-00003</td>
<td>More than 15 digits were used in decimal mode. The integer size {0} and the fraction size {1} were specified.</td>
<td>None</td>
<td>Contact your system administrator.</td>
</tr>
<tr>
<td>Explanation</td>
<td>Using more than 15 digits total when specifying integer and fractions sizes in decimal mode can cause errors to occur.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>User response</td>
<td>Do not use more than 15 digits total when you specify integer and fraction sizes in decimal mode.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSEE-TFIX-00004</td>
<td>The sum of the integer and fraction in decimal mode is greater than 31. The integer was {0}, and the fraction was {1}.</td>
<td>None</td>
<td>Contact your system administrator.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The sum of the integer value and the fraction value cannot exceed 31 in decimal mode.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>User response</td>
<td>Remove either the width or the max_width property.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSEE-TFIX-00005</td>
<td>Both width and max_width cannot be specified. Returned values were width {0}, and max_width {1}.</td>
<td>None</td>
<td>Remove either the width or the max_width property.</td>
</tr>
</tbody>
</table>
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} informat: {10} 
informatted: {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 
width: {2} \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-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 7. TFLT: Filter operator

The following topics describe various DSEE-TFLT messages.

**DSEE-TFLT-00002** The number of outputs attached must be less than 128.

**Explanation:** The Filter operator can route records to as many as 128 different output datasets. If more than 128 are requested, this message is generated.

**System action:** None.

**User response:** If more than 128 outputs are required, use several Filter operators to split the input dataset. Use the -reject option as a "catch-all" dataset, then connect that dataset to a second Filter operator. This cascading can be repeated if necessary.

**DSEE-TFLT-00005** Output dataset number {0} has no where values assigned to it.

**Explanation:** The output dataset {0} of the Filter operator has not had any records assigned to it by a where clause.

**System action:** None.

**User response:** Either eliminate the unused dataset, or specify a where clause that routes records to it.

**DSEE-TFLT-00006** The filter operator requires more outputs than it has been configured for; it has {0}, but it requires {1}.

**Explanation:** A dataset number ({1}) has been used as the target of a where clause that is larger than the number of output datasets ({0}) attached to the Filter operator.

**System action:** None.

**User response:** Alter the where clause to refer to a dataset that is already attached, or attach additional datasets to the operator.
Chapter 8. TFPM: Process manager

The following topics describe various DSEE-TFPM messages.

---

DSEE-TFPM-00001I The APT_PMCleanUp::registerFile function ran successfully.

**Explanation:** The APT_PMCleanup::registerFiles function was called to the file *filename* in the file registry by using flags *success_flag* and *failure_flag*. Flag *success_flag* indicates if the file will be saved or deleted when a job completes successfully. Flag *failure_flag* indicates if the file will be saved or deleted if the job fails.

**User response:** No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00002I The APT_PMCleanUp::changeFileRegistration function ran successfully.

**Explanation:** The APT_PMCleanup::changeFileRegistration function was called to change the registration for file *filename* with new flags *success_flag* and *failure_flag*. Flag *success_flag* indicates if the file will be saved or deleted when a job completes successfully. Flag *failure_flag* indicates if the file will be saved or deleted if the job fails.

**User response:** No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00003I The APT_PMCleanUp::deleteFileRegistration function ran successfully.

**Explanation:** The APT_PMCleanUp::deleteFileRegistration function was called to remove the file *filename* from the file registry.

**User response:** No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00004I APT_PMCleanUp::performCleanupAction: Not called by a Conductor or Section Leader.

**Explanation:** The process manager encountered an unknown process during the job-process cleanup. The handled process types are conductor or section leader. Memory corruption might have occurred.

**User response:** Verify that you intended to run the job. Collect the job logs and use the messages to troubleshoot the error.

DSEE-TFPM-00005E Name must not be null

**Explanation:** When registering a file, the file name was null.

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

DSEE-TFPM-00006I The APT_PMCleanUp::registerFileImpl function failed.

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

**User response:** No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00007I APT_PMCleanUp::registerFile: Could not generate a full path name for *filename*. The relative path name will be used.

**Explanation:** A full path name could not be generated in the file registry for the file *filename*. The relative path name will be used instead.

**User response:** No action is required.

DSEE-TFPM-00008I The function APT_PMCleanUp::changeFileRegistrationImpl ran successfully.

**Explanation:** The function APT_PMCleanup::changeFileRegistrationImpl is called to change the file *filename* registration with new flags *success_flag* and *failure_flag*. Flag *success_flag* indicates whether the file will be saved or deleted when a job completes successfully. Flag *failure_flag* indicates whether the file will be saved or deleted if the job fails.

**User response:** Verify that you intended to run the job. Collect the job logs and use the messages to troubleshoot the error.
NuTCRACKER service attempts to convert a Windows path to a UNIX path.

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

DSEE-TFPM-00015I The data set values
data_set_index, data_set_producer_PID \rightarrow
data_set_consumer_PID,
closeCommunicator(data_set_index, communicator_index):
direction: communicator=communicator_description were returned.

Explanation: The inter-process communicators are closing for straight-through connections. The return values were returned for the specified data sets.

User response: No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00016I The data set values
data_set_index, data_set_producer_PID \Rightarrow data_set_consumer_PID, nSockets(input) = 1 (of number_communicators) were returned.

Explanation: The print communication values were returned for the specified cross-partitioned input data sets.

User response: No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00017I The values
data_set_index, data_set_producer_PID \rightarrow data_set_consumer_PID, nSockets(input) = 1 (of number_communicators) were returned.

Explanation: The print communication values were returned for the specified straight-through partitioned input data sets.

User response: No action is required. IBM Software Support will use this message to debug related errors.
DSEE-TFPM-00019I The values
  data_set_index, data_set_producer_PID -->
  data_set_consumer_PID, nSockets(output)
  = 1 (of number_communicators) were
    returned.

Explanation: The print communication values were
    returned for the specified straight-through-partitioned
    output data sets.

User response: No action is required. IBM Software
    Support will use this message to debug related errors.

DSEE-TFPM-00020I The values
  data_set_index, data_set_producer_PID ==>
  data_set_consumer_PID, nSockets(output)
  = 1 (of number_communicators) were
    returned.

Explanation: The print communication values were
    returned for the specified cross-partitioned output data
    sets.

User response: No action is required. IBM Software
    Support will use this message to debug related errors.

DSEE-TFPM-00021I The values
  data_set_index, data_set_producer_PID -->
  data_set_consumer_PID, communicator
  (communicator_index of
  number_communicators) =
  communicator_description were returned.

Explanation: The print communication values were
    returned for the specified straight-through, partitioned
    input data sets.

User response: No action is required. IBM Software
    Support will use this message to debug related errors.

DSEE-TFPM-00022I The values
  data_set_index, data_set_producer_PID ==>
  data_set_consumer_PID, communicator
  (communicator_index of
  number_communicators) =
  communicator_description were returned.

Explanation: The print communication values were
    returned for the specified cross-partitioned input data
    sets.

User response: No action is required. IBM Software
    Support will use this message to debug related errors.

DSEE-TFPM-00033E APT_PMcontrolService: service
    name service_name exceeds maximum
    length max_length.

Explanation: The name specified for the conductor
    service is too long. The maximum length for a service
    name is max_length characters.

User response: Rename the service.

DSEE-TFPM-00034E APT_PMcontrolService: service
    name Service Name defined more than
    once.

Explanation: The specified service name is referenced
    multiple times. A service name can only be used once.

User response: Remove the multiple references to the
    service name in the job. Verify that the service name is
    used only once.

DSEE-TFPM-00037E Read unexpected amount from
    control socket: number_bytes bytes

Explanation: An error occurred while reading a
    message for the service on the conductor. The number
    of bytes being read is not a valid number.

User response: Verify the port number set for the
    environment variable APT_PM_STARTUP_PORT is
    using a available TCP/IP port address starting from the
    default value. The default is 10000. If the setup uses
    remote nodes as defined in the configuration file, verify
    that the parallel engine processes are using the port
    22514. Run the command netstat -a | grep 22514 to
    check this setup.

If the error persists, collect the job logs and the parallel
    engine configuration file and contact IBM Software
    Support.

DSEE-TFPM-00044E Unable to lookup hostname for
    node hostname. Please ensure that your
    network database is correct and that
    your ORCHESTRATE configuration file
    contains only valid hostnames for the
    'fastname' entries.

Explanation: The IP address for the host name that is
    used for the specified node in the parallel engine
    configuration file could not be resolved.

User response: Verify that the environment variable
    APT_PM_CONDUCTOR_HOSTNAME is set. Check the
    hostname that is defined in the /etc/hosts system file
    on UNIX systems and C:\Windows\System32\drivers\etc\hosts system file on Windows systems. Check the
    host name on the system by running the command
    uname -n and then specify that host name for the
    specified node in the parallel engine configuration file
    on the APT_PM_CONDUCTOR_HOSTNAME
    environment variable.

DSEE-TFPM-00047E uname() call failed, hostname

Explanation: The call to the uname() function failed,
    and the local host name could not be resolved.

User response: Verify that the environment variable
    APT_PM_CONDUCTOR_HOSTNAME is set. Check the
    hostname that is defined in the /etc/hosts system file
    on UNIX systems and C:\Windows\System32\drivers\etc\hosts system file on Windows systems. Check the
    host name on the system by running the command
    uname -n and then specify that host name for the
    specified node in the parallel engine configuration file
    on the APT_PM_CONDUCTOR_HOSTNAME
    environment variable.
DSEE-TFPM-00052E  APT_PMLlistenerPort::bind: bind() call failed, socket = socket, port = port_number, error_type

Explanation: The specified port number could not be bound to the specified socket.

User response: Check the specified port number in use. To verify that no other process is using the port number, run the following command `netstat -a | grep dsrpc` on UNIX systems. Verify that the environment variable APT_PM_STARTUP_PORT uses a port number of 10000 or greater. On a Windows system, run the `netstat` command and check the state for the dsrpc process.

DSEE-TFPM-00053E  APT_PMLlistenerPort::bind: bind() call failed with EADDRINUSE and we have run out of port numbers. Please simplify your step. Last port number tried = port_number retry count: number_retries

Explanation: This error occurs if port numbers in the desired range are not available. The parallel engine service for the listener daemon cannot be bound to the required port number. Multiple attempts by the listener daemon to bind the port number fails. The port number referenced during the last attempt is listed in the error message.

User response: Verify that the port number used is the same as the port number that is set for the dsrpc service in the `/etc/services` system file on the local system. Verify that no other service is using this port number. Also, verify that the environment variable APT_PM_STARTUP_PORT uses a port number of 10000 or greater.

DSEE-TFPM-00054E  APT_PMLlistenerPort::listen: listen() call failed, socket = socket, port = port_number, error_type (bind socket error type for address in use)

Explanation: The listen() system call failed for the specified socket on Windows systems for the incoming connections on the conductor. The listen() system call fails for a specified socket on port when there is no socket listening on that port and the associated ip address. Sockets on that port and ip address have the SO_REUSEADDR setsockopt binding option set. This indicates that the specified socket is already in use.

User response: Verify that the environment variable APT_PM_STARTUP_PORT uses a port number of 10000 or greater.

DSEE-TFPM-00055E  APT_PMLlistenerPort::accept: accept() call failed, socket = socket, port = port_number, errno = error_number (error_type)

Explanation: The accept() system call failed for the concerned socket when accepting connections on the conductor.

User response: Verify the following:
- The environment variable APT_PM_STARTUP_PORT uses a port number of 10000 or greater.
- The port number for the parallel engine remote process for startup (rsh/ssh, multiple nodes only) is 22514.
- The multiple nodes do not use a port number of 11000 or greater.

DSEE-TFPM-00074E  Subprocess appears to be writing binary data as error messages.

number_bytes binary bytes written to stdout or stderr of a subprocess operator

Explanation: The parallel engine conductor subprocess is generating the binary data as an error message to stdout or stderr as there is not enough disk space available to store the output.

User response: Make sure of the following:
- There is enough disk space available on the scratch disk partition, which is specified in the parallel engine configuration file.
There is enough disk space available in the /tmp directory.

**Explanation:**

The process could not write to the socket when sending a message to the section leader. There is an issue related to the use of the job monitor port during the parallel job run.

**User response:**

Check the port number used by the job monitor. Check the associated processes for the parallel job. Verify that there are no issues with your network.

**Explanation:**

Message was sent to a section leader that no longer exists.

**User response:**

Verify that the concerned node in use as referenced in the parallel configuration file is functional by re-running the job. Collect the job logs and the parallel configuration file and contact IBM Software Support.

**Explanation:**

Message was sent to section leader that no longer exists.

**User response:**

Verify that the concerned node in use as referenced in the parallel configuration file is functional by running the job again. Collect the job logs and the parallel configuration file and contact IBM Software Support.

**Explanation:**

When reading the select() system call on the conductor, an error occurred for processing the data that was received from the socket.

**User response:**

Collect the job logs and contact IBM Software Support.

**Explanation:**

When accepting a connection, a bad message was processed when dispatching.

**User response:**

Perform these steps:

1. Collect the job logs for the job run.
2. Set the environment variable APT_PM_TRACE_SYNC to 1.
3. Run the job again.
4. Collect the job logs again.
5. Contact IBM Software Support and provide both sets of job logs.

**DSEE-TFPM-00092E** APT_PMPollUntilZero:
ERROR: called with counter < 0

*Explanation:* A message was reported twice during a poll() system call.

*User response:* Check if the environment variable APT_PM_FLEX_TIMEOUTS is defined. If this has been enabled, set the debug variable APT_PM_TRACE_SYNC = 1 and run the job again. Collect the job logs for the run before setting this variable and after setting this variable and contact IBM Software Support.

**DSEE-TFPM-00095W** WARNING:
APT_PMPollUntilZero end value =
Current message counter value

*Explanation:* Diagnostic for polled message counter value.

*User response:* No action is required. IBM Software Support will use this message to debug related errors.

**DSEE-TFPM-00104E** FAILED status from
(message_from_SectionLeader, message_status)
after OK status

*Explanation:* While connecting to the conductor, the section leader and the player reported a FAILED status.

*User response:* Set the environment variable APT_PM_CONNECTIONTRACE for the concerned parallel job and run the job again. Collect the job logs and parallel configuration file for the job run before and after setting this variable and contact IBM Software Support.

**DSEE-TFPM-00113E** Unable to start ORCHESTRATE network connection on node
(NodeName(node_hostname)):
COMPLETETIMEOUT failed: operator_name
(operator_number, partition_number)

*Explanation:* A parallel engine startup error occurred on the section leader while processing connection requests for output consumer processes for operators.

*User response:* Set the environment variable APT_PM_CONNECTIONTRACE for the concerned parallel job and re-run the job. Collect the job logs and parallel configuration file for the job run with this variable and contact IBM Software Support.

**DSEE-TFPM-00114E** Unable to start ORCHESTRATE network connection on node
(NodeName(node_hostname)):
APT_PMConnectionSetup:: operator
operator_number(operator_name)timed out
with incomplete_connection (the number of incoming connection requests from current operator in use to the section leader)
incomplete incoming connections.

*Explanation:* A parallel engine startup error occurred on the section leader because of incoming network connection issues on the specified section leader.

*User response:* Check the network connection for the parallel engine nodes that are defined in the parallel engine configuration file. If the error persists, do the following:

1. Set the environment variable
   APT_PM_CONNECTIONTRACE,
   APT_DUMP_SCORE for the concerned parallel job
   and run the job again.

If the error still persists, collect the job logs and parallel configuration file for the job run with this variable and contact IBM Software Support.

**DSEE-TFPM-00115E** Unable to start ORCHESTRATE network connection on node
(NodeName(node_hostname)):
READYWAIT failed: operator_name
(operator_number, partition_number)

*Explanation:* A parallel engine startup error occurred because of network connection issues.

*User response:* Set the environment variable
APT_PM_CONNECTIONTRACE for the concerned parallel job and run the job again. If the error persists, collect the job logs and parallel configuration file for the job run with this variable and contact IBM Software Support.
DSEE-TFPM-00118E  Operator connection failed on node NodeName for consuming partition consuming_partition_number, producing partition producing_partition_number of dataset dataset_number, connection Information: connection_requests too many connection requests received

Explanation: A parallel engine operator connection error occurred on node during output consuming process when multiple connection requests are received.

User response: Set the environment variable APT_PM_CONNECTIONTRACE for the concerned parallel job and run the job again. If the error persists, collect the job logs and parallel configuration file for the job run with this variable and contact IBM support.

---

DSEE-TFPM-00119E  Unable to start ORCHESTRATE network connection on node NodeName (node_hostname): Operator connection failed on node scoreName for Request Message: consuming partition consuming_partition_number, producing partition producing_partition_number of dataset dataset_number, connection Information: connection_information

Explanation: A parallel engine operator connection error occurred on section leader when the environment variable APT_PM_INJECT_CONNECT_FAILURE is defined to cause the connection setup code to report a failure in the connect path.

User response: Verify that the environment variable APT_PM_INJECT_CONNECT_FAILURE is set for the specified job. Collect the job logs and parallel configuration file for the job run with this variable and contact IBM Software Support.

---

DSEE-TFPM-00120E  Unable to start ORCHESTRATE network connection on node NodeName (node_hostname): APT_PMConnectionSetup::acceptConnection: unable to accept connection Explanation: The connection to the parallel engine section leader could not be accepted because of network issues.

User response: Verify that the environment variable APT_PM_INJECT_ACCEPT_FAILURE is set for the specified job. Collect the job logs and parallel configuration file for the job run with this variable and contact IBM Software Support.

---

DSEE-TFPM-00123E  Unable to start ORCHESTRATE network connection on node NodeName (node_hostname): APT_PMConnectionSetup::acceptConnection: response read failed, errno = error(error_type)

Explanation: The parallel engine cannot connect to the section leader because of network issues when processing partition information.

User response: Collect the job logs and parallel configuration file for the job run with this variable and contact IBM Software Support.

---

DSEE-TFPM-00133E  setsockopt(socket_option, {1}) failed with errno socket(error_number)

Explanation: An error occurred on the setsockopt() function when TCP_NODELAY is enabled for sending small segments of data for immediate delivery of data on the section leader.

User response: Collect the job logs and parallel configuration file for the job run with this variable and contact IBM Software Support.

---

DSEE-TFPM-00136E  APT_PMConnectionRecord::rsh: dup2(new_file_descriptor, old_file_descriptor) failed, error_number

Explanation: When starting the conductor, an Open File Descriptor dup2() function error occurred.

User response: Verify that the environment variable APT_PM_SHOWRSH is set. Verify that the parallel engine setup is a mpp one with remote nodes by checking the parallel engine configuration file node definitions. If the error persists, collect the job logs and parallel configuration file for the job run and contact IBM Software Support.
DSEE-TFPM-00137E  Unable to resolve Conductor host name (hostname).

**Explanation:** The host name for the conductor could not be resolved.

**User response:** Run the command `uname -n` to check local hostname on the system. Verify if the long name or short name is being used for the host name and for the local host in the `/etc/hosts` system file. Check if the fastname in the parallel engine configuration file is set to the local host name. Verify that the environment variable APT_PM_CONDUCTOR_HOSTNAME is set for the job.

---

DSEE-TFPM-00140E  APT_PMConnectionRecord::

**sendEnvironment:** socket write for message_length bytes failed; status = status, error_number

**Explanation:** Failure occurs when the parallel engine environment variable text is too long. The maximum length for a parallel engine environment variable is set at 16000 bytes.

**User response:** Verify the parallel engine variables used in the job for this setting.

---

DSEE-TFPM-00142E  APT_PMConnectionRecord::

**receiveEnvironment:** socket read for length failed; status = socket_length, error

**Explanation:** An error occurred when reading the socket for setting up the connection between the conductor and the section leader. The conductor fails to transmit the environment connection setup to the section leader.

**User response:** Collect the job logs and the parallel engine configuration file for the job run and contact IBM Software Support.

---

DSEE-TFPM-00143E  APT_PMConnectionRecord::

**receiveEnvironment:** socket read for text_length bytes failed; status = status, error

**Explanation:** An error occurred when reading the socket text length in setting up the environment connection between the conductor and the section leader.

**User response:** Collect the job logs and parallel engine configuration file for the job run and contact IBM Software Support.

---

DSEE-TFPM-00144E  Startup error on local_node_for_ScoreName connecting with conductor on section_leader_NodeName with cookie Cookie:

**Explanation:** An error occurred for a connection to the conductor using the specified cookie using the score name on the section leader.

**User response:** Collect the job logs and parallel engine configuration file for the job run and contact IBM Software Support.

---

DSEE-TFPM-00145E  conductor node NodeName unknown via gethostbyname; h_errno = error_number

**Explanation:** The conductor node name could not be resolved for use by the gethostbyname() function on UNIX.

**User response:** Verify that both the short name and the long name of the local host names resolve to the same IP address in `/etc/hosts` system file on UNIX systems and `C:\Windows\System32\drivers\etc\hosts` system file on Windows system. Ensure that the host name, localhost, resolves to IP address 127.0.0.1. If the error persists, collect the job logs, the parallel engine configuration file for the job run, and the `/etc/hosts` system file on the UNIX system or `C:\Windows\System32\drivers\etc\hosts` system file on the Windows system, and then contact IBM Software Support.

---

DSEE-TFPM-00148E  error_prefix unable to connect to port port on conductor; socket = socket, error

**Explanation:** After multiple attempts, a connection to the port number on the conductor cannot be established.

**User response:** Verify the following:

- The environment variable APT_SL_RETRIES is set for the job.
- The environment variable APT_PLAYER_CONNECTION_PORT uses a port number of 11000 or greater.

If the error persists, collect the job logs and the parallel engine configuration file for the job run and contact IBM Software Support.

---

DSEE-TFPM-00149E  error_prefix write of connection message failed, error

**Explanation:** An error occurred when attempting to write a connection message on the conductor. This error can occur when the setsockopt() function with the TCP_NODELAY option fails.

**User response:** Verify that the environment variable APT_PLAYER_CONNECTION_PORT for multiple ports uses a port number of 11000 or greater. Collect the job logs and the parallel engine configuration file for the job run and contact IBM Software Support.
DSEE-TFPM-00151E  error: unable to create connection port

Explanation: When starting the conductor, the connection port cannot be established.

User response: Verify that the environment variable APT_PM_STARTUP_PORT uses a port number of 10000 or greater. Collect the job logs and the parallel engine configuration file for the job run and contact IBM Software Support.

DSEE-TFPM-00152I  Accept timed out retries = retries

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

User response: No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00153I  The section leader on NodeName died

Explanation: The section leader on the specified node failed to start or terminated without connecting back to the conductor.

User response: Verify that the environment variable APT_PM_RETRY_FAILED_SL_ON_STARTUP is set for the job.

DSEE-TFPM-00154E  error: Reading connection message returned message, expected message_length, error

Explanation: An error occurred when reading the socket connection for the specific socket.

User response: Verify that the environment variable APT_PLAYER_CONNECTION_PORT for multiple ports uses a port number of 11000 or greater. Collect the job logs and the parallel engine configuration file for the job run and contact IBM Software Support.

DSEE-TFPM-00156E  error: waitpid(current_connection, 0, 0) returned process_ID_number, error

Explanation: An error was reported for the specified process ID for the parallel engine connection state on the section leader.

User response: Verify that an invalid cookie has not been used for the specific job. Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00157E  Startup error on error_prefix:

Explanation: An error occurred when starting a parallel engine on the conductor.

User response: Verify that the environment variable APT_PM_STARTUP_PORT uses a port number of 10000 or greater. Collect the job logs and the parallel engine configuration file for the job run and contact IBM Software Support.

DSEE-TFPM-00158E  NodeName: setup failed for final program Argument

Explanation: An error was reported for the specified process ID for the parallel engine connection state on the section leader.

User response: Verify that the environment variable APT_PM_RETRY_FAILED_SL_ON_STARTUP is set for the job.

DSEE-TFPM-00159I  Step started on node NodeName; it uses NodeCount nodes. The program running the step is ProgramName

Explanation: The conductor is running on the specified node and the job is attempting to use the specified number of nodes.

User response: No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00160I  The ORCHESTRATE startup program in StartupProgram is being used.

Explanation: Parallel job startup uses rsh or ssh to run an initial startup program on each node that is used by the job. This startup program is typically the file defined by the $APT_ORCHHOME/etc/standalone.sh script.

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

DSEE-TFPM-00161I  A startup script (in ProgramName) is being used.

Explanation: If a startup script is being used, this message provides the name of a file that contains the script. This file must be accessible on every node used to execute the job.

User response: Ensure that this file is accessible on every node used to execute the job.
**DSEE-TFPM-00181I** - A startup script is not being used.

**Explanation:** If a startup script is being used, the messages ‘A startup script (in {0}) is being used where {0} is the setupProgramName’ is displayed and provides the name of a file containing the script. This file must be accessible on every node that is used to run the job.

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

**DSEE-TFPM-00183I** The TCP port being used for startup is **port_number**; the associated socket number is **socket_number**.

**Explanation:** As each node starts, it establishes a TCP connection back to the original conductor process. This message is for informational purposes only and provides the TCP/IP port number that the nodes will connect to (port_number), and the socket number (socket_number) that the conductor process uses for this port.

**User response:** No action is required.

**DSEE-TFPM-00184I** Node Status

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

**User response:** No action is required.

**DSEE-TFPM-00185I** **NodeName**

**Explanation:** This message appends the node name on to other messages that define the status of this node.

**User response:** No action is required.

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

**Explanation:** The specified node started successfully. This message is for informational purposes only.

**User response:** No action is required. IBM Software Support will use this message to debug related errors.

**DSEE-TFPM-00187I** `rsh` issued, no response received.

**Explanation:** The `rsh/ssh` command was issued for the specified node, but the node never connected back to the conductor. This error typically occurs when `rsh` is not configured correctly between the conductor node and the target node.

**User response:** To verify that the `rsh` is configured correctly between the conductor node and the target node, enter either `rsh target_node date` or `ssh target_node date` from a shell prompt for the user name that was used to run the job. If either of these commands does not return the date, it indicates that the `rsh` or `ssh` command has not been correctly configured. For more details refer to the documentation for InfoSphere Parallel Engine Configuration Consideration Options for MPP system and InfoSphere Server configuration documentation for Configuring computers to be compute nodes for MPP (windows) and Adding computers to Share Engine processing.

**DSEE-TFPM-00188I** Startup script failed or hung.

**Explanation:** The startup script was started, but no subsequent connection back to the conductor process was received. This message might indicate an error in the logic or syntax of the startup script.

**User response:** No action is required. IBM Software Support will use this message to debug related errors.

**DSEE-TFPM-00189I** error sending environment.

**Explanation:** The connection between the conductor and the specified node failed while the conductor was sending the environment variable settings to the node. A network failure might have occurred. This message is for informational purposes only.

**User response:** No action is required. IBM Software Support will use this message to debug related errors.

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

**Explanation:** The startup script was started, but it detected an error and explicitly requested that the job be stopped. The script issues a message providing the reason for the abort.

**User response:** Check the message that the script generated for identifying the reasons for this error. IBM Software Support will use this message to debug related errors.

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

**Explanation:** This is a unexpected startup status error that should not have occurred.

**User response:** Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**DSEE-TFPM-00192E** Player **Player** terminated unexpectedly.

**Explanation:** The player process terminated unexpectedly during the parallel job run. This error occurs on the node end of the control port. Node end
of the control port refers to the player process termination at the section leader or node.

User response: Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00193E  error_prefixkind (refers to the error type - CONTROL, STDOUT, STDERR) failed, error

Explanation: On UNIX systems, if the poll() function is called prior to the parent process call for creating the player, confirmation could be received prior to creating the player process. This error occurs when the concerned socket has initialization issue during player process creation.

User response: Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

---

DSEE-TFPM-00194E  APT_PMPlayer::APT_PMPlayer: pipe(type (refers to the error type - CONTROL, STDOUT, STDERR) failed, error

Explanation: The pipe() function failure occurs if the poll() is called prior to spawning of the parent player process. This is a initialization issue when setting up the player connection from the conductor to the section leader.

User response: Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

---

DSEE-TFPM-00195E  Unable to start ORCHESTRATE process on node NodeNameInfo (refers to the score composer that is the parent conductor) (NodeName (refers to the sectionleader that is the childname)):
APT_PMPlayer::APT_PMPlayer: fork() failed, error

Explanation: The player process cannot be started on the node. The Setpgid() call failed to change a process group.

User response: Correct the problem indicated by the error number. Error number is the error type associated with the pgid() signal handler call that sets the process group ID of the process with the associated pid ID to pgid (process group ID number). Pgid() error types are EPERM, ESRCH, EINVAL and EACCESS.

---

DSEE-TFPM-00196E  Unable to start ORCHESTRATE process on node NodeNameInfo (refers to the score composer that is the parent conductor) (NodeName (refers to the sectionleader that is the childname)):
setpgid() failed, error_number

Explanation: The parallel engine process cannot be started on the specified node. The fcntl() call failed to close the control port. Subprocess operator processes on the conductor are likely to be responsible for this issue.

User response: Correct the problem based on the error number. Verify that there is sufficient disk space and memory on the system.

---

DSEE-TFPM-00197E  APT_PMPlayer::APT_PMPlayer (child): dup2(socket_number, 1) returned status_message, error is error_message

Explanation: When the specified socket number is changed for the node, the write processes can result in failures for the dup2() call during the job run. A status message and error message provide details on the error.

User response: Correct the problem based on the error message. Verify that the system has sufficient disk space and memory.

---

DSEE-TFPM-00198E  APT_PMPlayer::APT_PMPlayer (child): dup2(socket_number, 2) returned status_message, error is error_message

Explanation: When the specified socket number is changed for the node, the write processes can result in failures for the dup2() call during the job run. The argument 2 is the error type for the dup2() call, that is EBADF, EINTR and EMFILE. This is related to write failures for open file descriptors.

User response: Correct the problem based on the error message. Verify that the system has sufficient disk space and memory.

---

DSEE-TFPM-00199E  Unable to start ORCHESTRATE process on node NodeNameInfo (refers to the score composer that is the parent conductor) (NodeName (refers to the sectionleader that is the childname)):
fcntl(control_port,F_SETFD,FD_CLOEXEC) failed for control port, error_message

Explanation: The parallel engine process cannot be started on the specified node. The fcntl() call failed to close the control port. Subprocess operator processes on the conductor are likely to be responsible for this issue.

User response: Correct the problem based on the error number. Verify that there is sufficient disk space and memory on the system.
DSEE-TFPM-00202E Unable to start ORCHESTRATE process on node NodeNameInfo (refers to the score composer that is the parent conductor) (NodeName (refers to the sectionleader that is the childname)): setpgid() failed, error_message

**Explanation:** The parallel engine process cannot be started on the specified node. The setpgid() call failed, which occurs when the process group leader cleans up the child processes due to a termination from a signal to avoid a race condition.

**User response:** Correct the problem based on the error message.

DSEE-TFPM-00208E Signal handler setup failed for signal (any signal except SIGKILL and SIGSTOP referenced in the signal handler), error

**Explanation:** The signal handler setup failed for the specified signal on the conductor during the job run. The signal handler provided an error message.

**User response:** Collect the job logs and the parallel engine configuration files for the job run, and then contact IBM Software support.

DSEE-TFPM-00209E ORCHESTRATE step execution terminating due to signal (any signal except SIGKILL and SIGSTOP referenced in the signal handler)

**Explanation:** The parallel job failed because because an error occurred with the signal handler.

**User response:** Run the job again using the one node configuration setting APT_SEQUENTIAL_MODE=ONE_PROCESS and enabling the APT_DISABLE_COMBINATION variable. If the job fails, collect the job logs and the parallel engine configuration files for the job run, and then contact IBM Software Support.

DSEE-TFPM-00212E setpgrp() failed, error_message

**Explanation:** If the process ID and process group ID for the current process are not the same this error occurs. This happens when the sequential mode option is set during score composer generation of the parallel job run. This is a configuration issue for the concerned job.

**User response:** Check the number of nodes being used in the configuration file as per available system resources. You can decrease the disk space consumption for a parallel job by using fewer nodes in a parallel engine configuration file. Run the job again to verify if the issue can be reproduced.

DSEE-TFPM-00214E Unable to create score file

**Explanation:** The parallel engine score file cannot be created.

**User response:** Verify that the environment variable APT_PM_SCORE_DIR is set to the directory to be used for the temporary files created as part of saving and restoring the score composer during job run. The directory must be valid on all nodes. Collect the job logs and then contact IBM Software Support.

DSEE-TFPM-00216E Couldn't open config file to be remotely distributed: path

**Explanation:** In a massively parallel processing (MPP) environment, the parallel engine configuration file could not be opened for remote node distribution.

**User response:** Verify that the environment variable APT_CONFIG_FILE defines the parallel engine configuration file at the specified location.

DSEE-TFPM-00218E APT_Config::get().isValid() is false

**Explanation:** This error occurs when generating a copy of the parallel engine configuration file for processing information to the section leaders. It occurs when a invalid directory name or filename or invalid directory location or filename location is defined for the APT_CONFIG_FILE parallel engine configuration file.

**User response:** Verify that the environment variable APT_CONFIG_FILE references a valid directory and file name. Check to see if the directory and file exist at the defined location on the system. Also, verify that the conductor and section leaders in the parallel engine configuration file are defined correctly.

DSEE-TFPM-00220I APT_SEQUENTIAL_MODE is deprecated; please use APT_EXECUTION_MODE instead

**Explanation:** The environment variable APT_SEQUENTIAL_MODE has been deprecated. Use the environment variable APT_EXECUTION_MODE.

**User response:** For the specified job, remove the setting applied for the environment variable APT_SEQUENTIAL_MODE and instead use the environment variable APT_EXECUTION_MODE.

DSEE-TFPM-00221E APT_EXECUTION_MODE=Mode - mode not recognized, assuming ONE_PROCESS. Valid modes are ONE_PROCESS, MANY_PROCESS and NO_SERIALIZE.

**Explanation:** The environment variable
APT_EXECUTION_MODE is not set to a valid mode. The valid modes are ONE_PROCESS, MANY_PROCESS and NO_SERIALIZE. The default mode ONE_PROCESS has been assigned to this environment variable.

User response: Set the environment variable APT_EXECUTION_MODE to a valid mode.

---

DSEE-TFPM-00245E Unable to define node 'NodeName'. Probable configuration problem; contact Orchestrate system administrator.

Explanation: When starting the parallel engine, the node could not be defined. An error exists in the parallel engine configuration file.

User response: Check the nodes and resources that are defined in the parallel engine configuration file. Verify that the partitions and resources defined for the nodes comply with system disk partitions and resources. In a massively parallel processing (MPP) environment, check the remote nodes too.

---

DSEE-TFPM-00254E Connection setup failed.

Explanation: While waiting for the section leaders to start, a connection failure occurred.

User response: Check the nodes and resources like scratch space that are defined in the parallel engine configuration file. Check the system resources memory and disk space. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

---

DSEE-TFPM-00260E Cannot open sequential archive information return file: temporary_filename

Explanation: The sequential data file was not generated or could not be opened during the parallel job run.

User response: No action is required. IBM Software Support will use this message to debug related errors.

---

DSEE-TFPM-00222I Bad cleanup action: file_action

Explanation: When registering a file, a cleanup failure occurred.

User response: No action is required. IBM Software Support will use this message to debug related errors.

---

DSEE-TFPM-00222I Unable to change back to original working directory after executing operator in APT_EXECUTION_MODE=ONE_PROCESS: error_number

Explanation: The error is related to the chdir() function call when the job process cannot change back to the original directory location after running the specified operator. This occurs when the environment variable APT_EXECUTION_MODE=ONE_MODE is set for debugging the job. The job will run sequentially in a single process for the ONE_NODE setting.

User response: Check the permissions for the original working directory that was used in the specified job and correct the permissions, if necessary. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

---

DSEE-TFPM-00246I Contacting Section Leaders.

Explanation: When node numbers have been resolved in the parallel engine configuration file, the nodes are contacted in the parallel engine setup during the job run.

User response: No action is required. IBM Software Support will use this message to debug related errors.

---

DSEE-TFPM-00262E fork() for process[process_index] failed: error_number

Explanation: During the sequential processing of the nodes during the job run, the fork() system call.

User response: Verify that the environment variable APT_EXECUTION_MODE is set to ONE_PROCESS for the job. Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

---

DSEE-TFPM-00264E Failed call to waitpid; errno: error_number, wpid = wait_process_ID

Explanation: During the sequential processing of the nodes during the job run, the waitpid() function fails while waiting for the child process to finish on the parent node on a UNIX system. When the variable APT_EXECUTION_MODE=ONE_MODE, APT_EXECUTION_MODE causes the parallel framework to run the job sequentially in a single process for ONE_NODE setting. APT_EXECUTION_MODE=ONE_MODE is set to run the job in isolation mode on a single node ie conductor. This is used for debugging the job run.

User response: Verify the System resources and kernel parameters as specified for the InfoSphere parallel engine. Errors associated with this setting require assistance with support. Job Logs and configuration file are required for further assistance. Collect the job logs and the parallel configuration file for the job run, and then contact IBM Software Support.
DSEE-TFPM-00265E • DSEE-TFPM-00279E

DSEE-TFPM-00265E  process[process_index]
  process_name terminated by Unix signal
  process_status signal error_message

Explanation: During the sequential processing of the nodes during the job run, the specified process that was launched by the fork() system call was terminated because of the specified UNIX signal and specified error message. This error only occurs when APT_EXECUTION_MODE=ONE_PROCESS is set for the job run.

User response: Verify that the environment variable APT_EXECUTION_MODE is set to ONE_PROCESS for the job. Errors associated with this setting require assistance with support. Job Logs and configuration file are required for further assistance. Collect the job logs and the parallel configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00274E  module_name createSeqCommunicator
  failed for output dataset number
  dataset_index on partition number
  partition, errno = error_number

Explanation: During the sequential processing of the operators during the job run, the specified output data sets for downstream operator processing could not be created.

User response: Verify that the environment variable APT_EXECUTION_MODE=ONE_PROCESS is set for the job. Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00277I Empty argv[0]! Orchestrate cannot run.

Explanation: The parallel jobs and the orchestrate executable osh cannot be run.

User response: No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00278E The APT_ORCHHOME environment variable must be set in order to run an ORCHESTRATE (TM) application. Please see your system administrator for assistance.

Explanation: To run parallel jobs, you must set the environment variable APT_ORCHHOME to the directory where the parallel engine is installed.

User response: Complete these steps:
- Verify that the environment variable APT_ORCHHOME was defined correctly. To check the parallel engine environment setup, on the server run the command env | grep $APT_ORCHHOME.
- Stop and restart the services on the server.
- Run the job again.

DSEE-TFPM-00279E Caught ORCHESTRATE exception error_location error_description.

Explanation: During the parallel job run, an unhandled exception was caught in the specified location, which is in either the main program or a parallel process. A description of the exception is provided.

User response: This message is usually preceded by a message that describes the condition that caused the error.
**DSEE-TFPM-00295E** broadcastStepIR: unable to create score file ScoreFileName on node ScoreName

**Explanation:** During the job run, the parallel engine score composer file could not be created on the node.

**User response:** Check that the environment variables for the parallel engine are set up correctly. Verify that the InfoSphere Information Server users have adequate permissions on the system. Verify that the partitions and resources that are defined for the nodes comply with system disk partitions and resources.

If the error still persists, collect the job logs and the parallel engine configuration file for the job run and then contact IBM Software Support.

**DSEE-TFPM-00296E** (file system full)

**Explanation:** The job cannot be run because no disk space is available on the system. This error occurs when the job score composer sends information to the section leaders during the job run and generates a score composer file in the resource scratch space location. Scratch space location is set in the Parallel engine configuration file. The disk space available for the specified scratch space location on the system is not sufficient.

**User response:** Check the disk space and the temporary scratch space on the system as defined in the parallel engine configuration file. You can decrease the disk space consumption for a parallel job by using fewer nodes in a parallel engine configuration file.

**DSEE-TFPM-00298E** broadcastStepIR: score file write for current_file_length bytes to file score_file_name on node score_name returned amount_written; errno = errormessage. Consider setting TMPDIR or APT_PM_SCORE_DIR to a directory with more space.

**Explanation:** The score composer file could not be written because no disk space or scratch file space is available.

**User response:** Check the disk space and the temporary scratch space on the system as defined in the parallel engine configuration file. Do not use the /tmp directory for the temporary files. Reduce how much space is used by the /tmp directory by adjusting these environment variables: TMP, TMPDIR, APT_FIFO_DIRECTORY, and APT_PM_SCORE_DIR. Or, use the uvconfig parameter on the environment variable UVTEMP to specify another location for these files.

**DSEE-TFPM-00299E** broadcastStepIR: fork() failed on node ScoreName

**Explanation:** The fork() system call failed on the section leader. This error occurs when the parent node reads data during node communication setup and initialization.

**User response:** Verify that the partitions and resources defined for the nodes in parallel engine configuration file are compliant with system disk partitions and resources setup as required for InfoSphere Information Server parallel engine on the specified platform.

**DSEE-TFPM-00300E** broadcastStepIR: read for status failed on node ScoreName

**Explanation:** The read() function failed on the section leader. This occurs when the socket reads data from the nodes on the parent conductor.

**User response:** Verify that the partitions and resources defined for the nodes in parallel engine configuration file are compliant with system disk partitions and resources setup as required for InfoSphere Information Server parallel engine on the specified platform.

**DSEE-TFPM-00301E** broadcastStepIR: unable to unlink score file FileName on node ScoreName

**Explanation:** The ScoreComposer file cannot be deleted on the section leader.

**User response:** Verify if the score composer file APTcsxxx gets created in the /tmp directory on the system during the job run and check permissions for the file.
DSEE-TFPM-00303E  broadcastStepIR: score load from FileName on node ScoreName failed; exit status exit_status

Explanation: Score composer failure occurs on the section leader when the parent player process is terminated during the communication between the section leader processes. This occurs when composing the job score that defines the processes created, the degree of parallelism and node assignments, and the interconnections between them.

User response: Verify that the partitions and resources defined for the nodes in parallel engine configuration file are compliant with system disk resources setup on the specified system for the InfoSphere parallel engine installation. Check the parallel engine processes in progress running the command ps -ef | grep dsadm or specified InfoSphere user on the system.

DSEE-TFPM-00304E  broadcastStepIR: status write to parent failed on node ScoreName: error

Explanation: The write() function failed on the node. This error occurs during the node broadcast communication for a parent to child write process.

User response: Verify that the resources defined for the nodes in parallel engine configuration file are compliant with system disk resources setup on the specified system for the InfoSphere parallel engine installation.

DSEE-TFPM-00305E  broadcastStepIR: status read from parent failed on node ScoreName: error

Explanation: The read() function failed on the section leader. This error occurs during the node communication when the end of file read process fails between the parent and the child.

User response: Verify that the resources defined for the nodes in parallel engine configuration file are compliant with system disk resources setup on the specified system for the InfoSphere parallel engine installation.

DSEE-TFPM-00306E  Unable to start ORCHESTRATE: Score file open failed. File: FileName; errno = error_number

Explanation: Parallel engine failed to start on the node due to the score composer file error. The score composer open() file action failed on the nodes.

User response: Verify that there is sufficient disk space and available scratch space for parallel engine jobs on the system. Check the permissions for the InfoSphere parallel engine installation, the parallel engine configuration file and the resources in use on the system.

DSEE-TFPM-00307E  broadcastStepIR: warning: score file deletion for FileName failed; errno = error_number

Explanation: The score composer file on the system could not be deleted. This error occurs during broadcast of communication between nodes.

User response: No action is required.

DSEE-TFPM-00308E  Unable to start ORCHESTRATE: Score file read from ScoreFile failed; errno = error_number

Explanation: The parallel engine could not be started on the section leader. The read() function failed when accessing the score composer file.

User response: Verify that the score composer file exists on the system and check the permissions for the InfoSphere parallel engine users.

DSEE-TFPM-00309E  broadcastStepIR: score not successfully restored by score_failure section leaders.

Explanation: The ScoreComposer was not restored on the nodes successfully.

User response: Check that the environment variable APT_PM_NODE_TIMEOUT was defined as the loading of the score takes some time. This should not be less than the default 120 seconds value.

DSEE-TFPM-00310E  broadcastStepIR: step timed out sending ScoreFile_Size byte score; status = error

Explanation: This error occurs during the loading of the score composer on the section leader.

User response: Check that the environment variable APT_PM_NODE_TIMEOUT was defined as the loading of the score takes some time. This should not be less than the default 120 seconds value. Check the parallel engine score composer file size and permissions for the section leader on the system.

DSEE-TFPM-00311E  Unable to locate process ProcessNumber in node NodeNumber (NodeName)

Explanation: The parallel engine process on the node cannot be identified. This is a memory consumption issue on the system for the parallel engine setup.

User response: Verify that there is sufficient memory, available disk space and scratch space on the system and the remote systems for mpp setup. If possible, reduce the number of nodes in use in the parallel configuration file. Then run the job again. If the error persists, collect the job logs and the parallel engine...
configuration file for the job run and then contact IBM Software Support.

DSEE-TFPM-00313E Unable to start ORCHESTRATE process: startPlayerSvc: Unable to create player address_info

Explanation: The parallel engine process cannot be started. The network address for the specified port in use has binding issues.

User response: Check that the environment variables APT_PM_STARTUP_PORT and APT_USE_IPV4 are defined. Check the network ports defined for the IPv4 and IPv6 network protocols for host addresses in /etc/hosts system file on the UNIX system and C:\Windows\System32\drivers\etc\hosts system file on the Windows system.

DSEE-TFPM-00319I ORCHESTRATE event monitoring not active; APT_EVENT_MONITOR_HOST must be set.

Explanation: The parallel engine monitoring process is not active and the environment variable APT_EVENT_MONITOR_HOST is not set.

User response: No action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00321E ERROR: Operator Operator, process ProcessName cannot be run; this is probably due to a missing dynamic link library.

Explanation: The operator cannot be run for the parallel engine job due to a missing library.

User response: Check the environment setup for the parallel engine on the system. The variable LIBRARY_PATH i.e, LD_LIBRARY_PATH on most UNIX systems, LIBPATH on AIX and the PATH variable on the Windows system should include the parallel engine library path and operator libarypath for operators used in the specified job.

DSEE-TFPM-00330E The Section Leader on node NodeName has terminated unexpectedly.

Explanation: The section leaders and associated process for the parallel job run has terminated unexpectedly. There is an I/O error on the conductor side of the section leader port in use.

User response: Check the environment setup for parallel engine on the system. Check the resources i.e scratch file space and nodes as defined in parallel engine configuration file. Check the parallel engine processes in use on the system by running the commands ps -ef | grep osh and ps -ef | grep dsrpc. Stop and restart engine services and run the job again. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00339E APT_PMsectionLeader(ID, NodeName), player player_number - Unexpected termination by Unix signal signal_status(signal_status).

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 ID, and the leader runs on the node named NodeName in the configuration file. The player process failed with signal signal_status, whose corresponding signal name is signal_status.

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-00342E ERROR: gethostbyname(HostName) returned null; node NodeName cannot be used.

Explanation: This is the gethostbyname() function error when the section leader is being defined during the startup of job processing.

User response: Perform the following:
- Run the command `uname -n` to check the local hostname on the system.
- Verify if the longname or shortname is in use for the hostname and for the local host in /etc/hosts.
- Check if the fastname in the parallel engine configuration file is set to the local hostname i.e ‘uname -n’.
- Verify that the environment variable APT_PM_CONDUCTOR_HOSTNAME is set for the job.

DSEE-TFPM-00343E ERROR: APT_PMsectionLeader::contactNodes called unexpectedly.

Explanation: This error occurs during the job processing on the nodes.

User response: Verify the parallel engine environment and the configuration setup on the system. Verify that
there is sufficient disk space, scratch space and memory available on the system to run the parallel jobs.

DSEE-TFPM-00346E Unable to start ORCHESTRATE job: Write of section leader ID failed for NodeName
(node_communication_name):ERROR. This likely indicates a network problem.

Explanation: Unable to spawn player process on the node. The write() process failed for the starting node during the parallel job run.

User response: This could be a network issue. Check the parallel engine processes in use by running the command `ps -ef | grep osh` and `netstat -a | grep dsrpc`. Stop and restart the engine services and run the job again. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00347E Service table transmission failed for NodeName
(node_communication_name):ERROR. This may indicate a network problem.

Explanation: This error occurs when creating the control ports for the new nodes and communicating the information across the nodes during the job run. This could be a network issue.

User response: Set the environment variable `APT_PM_CONDUCTOR_TIMEOUT` to a larger value than the default value 60 and run the job again. If the error persists, collect the job logs and then contact IBM Software Support.

DSEE-TFPM-00348E APT_PMsectionLeader::contactNodes: sync with Section Leaders got non-zero status. One or more may be hung.

Explanation: This error occurs due to synchronization between the conductor and the nodes during parallel job run. Hanging node processes cause the job to hang.

User response: Check for the hanging job processes on the system by running the command `ps -ef | grep osh`. Set the environment variable `APT_PM_CONDUCTOR_TIMEOUT` to a larger value than the default value 60 and run the job again. If the error persists, collect the job logs, and then contact IBM Software Support.

DSEE-TFPM-00350E APT_PMsectionLeader::deactivateNode called for inactive Section Leader NodeName.

Explanation: This error occurs when deactivating the nodes that are not active during the parallel job runs. The node is being referenced as inactive when it terminates.

User response: Check for the hanging processes on the system by running the command `ps -ef | grep osh`. Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00351E Unable to start ORCHESTRATE job: APT_PMwaitForPlayersToStart failed while waiting for player count. This likely indicates a network problem.

Status from APT_PMpoll is status; node name is NodeName

Explanation: The startup for the node fails during the parallel job run. This occurs due to network issues when evaluating the startup status for the nodes.

User response: Verify that the environment variable `APT_PM_PLAYER_TIMEOUT` is set. Check the nodes defined in the parallel configuration file and the parallel engine processes running on the system by executing the commands `ps -ef | grep osh` and `netstat -a | grep 134`.

DSEE-TFPM-00352E Unable to start ORCHESTRATE job: APT_PMwaitForPlayersToStart failed while waiting for players to confirm startup. This likely indicates a network problem.

Status from APT_PMpoll is status; node name is NodeName

Explanation: This error occurs when the nodes fail to startup during the parallel job run. This is due to the network setup and resource use. The status fails for the poll() function for waiting for the player processes to start on the node.

User response: Verify that the environment variable `APT_PM_PLAYER_TIMEOUT` is set. Check that the parallel engine processes running on the system by executing the commands `ps -ef | grep osh` and `netstat -a | grep 134`.

DSEE-TFPM-00353E APT_PMsyncWithSectionLeaders: sync with Section Leaders got non-zero status. The error occurred during the node
startup. This could be a network issue.

**User response:** Check the parallel engine processes running on the system by executing the commands `ps -ef | grep osh` and `netstat -a | grep 134`.

**Explanation:**

`DSEE-TFPM-00354E` APT_PMwaitForStepEnd: Status: processes did not respond. Poll interval = poll_interval seconds, number of attempts = poll_attempts.

User response: Check for the parallel engine processes and the processes running on the system by executing the commands `ps -ef | grep osh` and `netstat -a | grep 134`. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**Explanation:**

There is failure during synchronization between the conductor and the nodes during the parallel job run. This occurs when waiting for the node process to respond on the conductor.

User response: Check for the memory usage for the parallel engine processes and the processes running on the system by executing the commands `ps -ef | grep osh` and `netstat -a | grep 134`. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**Explanation:**

`DSEE-TFPM-00355E` APT_PMsyncWithPlayers: Status: processes did not respond. Poll interval = poll_interval seconds, number of attempts = poll_attempts.

User response: Check for the parallel engine processes and the processes running on the system by executing the commands `ps -ef | grep osh` and `netstat -a | grep 134`. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**Explanation:**

There is a failure of response from the nodes during the parallel job run. The conductor receives no response from the nodes when polling for the response.

User response: Check for the memory usage for the parallel engine processes and the processes running on the system by executing the commands `ps -ef | grep osh` and `netstat -a | grep 134`. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**Explanation:**

`DSEE-TFPM-00356E` 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 or running from a directory that is not mounted on all nodes. Look for error messages in the preceding output.

User response: Verify that the software is properly installed on all the 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 the nodes.

**Explanation:**

The startup of the parallel job failed. This is preceded by a set of messages describing the status of the job on each node at the time when the failure occurred.

User response: Verify that the environment setup for the parallel engine job for all the nodes and associated resources is defined correctly in the configuration file. Check for available disk space and memory usage on the system. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**Explanation:**

The execvp() process failed on the conductor during the startup for the parallel engine job run.

User response: Verify the environment setup for the parallel engine installation on the system and check the parallel engine configuration file. Check for available disk space and memory usage on the system.

User response: No action is required. IBM Software Support will use this message to debug related errors.

**Explanation:**

Adaptive job monitoring feature is disabled; could not create polling thread: error_number.

User response: No user action is required. IBM Software Support will use this message to debug related errors.

**Explanation:**

Adaptive job monitoring feature is disabled; could not create thread: error_number.

User response: Verify the environment setup for the parallel engine job for all the nodes and associated resources is defined correctly in the configuration file. Check for available disk space and memory usage on the system. If the error persists, collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**Explanation:**

The local fork() system call failed on the UNIX system during the startup. This occurs when the local processes call the fork() system call again after the file descriptor setup.
DSEE-TFPM-00380E  DSEE-TFPM-00404E

User response:  Check the parallel engine processes on the UNIX system by running the command `ps -ef | grep osh, netstat -a | grep 130`. Verify the environment setup for the parallel engine installation on the system and check the parallel engine configuration file. Check for available disk space and memory usage on the system.

DSEE-TFPM-00381E  APT_PM_StartProgram: no remote shell command found. Contact DataStage administrator for assistance.

Explanation:  This is reported in a mpp parallel engine setup or where the parallel engine configuration setup uses a remote node. This error occurs if the remote shell 'rsh' command is not found at startup.

User response:  Verify that the C:/WINDOWS/system32/rsh.exe file is accessible in a windows mks korn shell or in /usr/bin/ssh or /usr/bin/rsh on UNIX. Check that the file installed in the parallel engine location i.e APT_ORCHHOME/etc/remsh uses rsh or ssh. passwordless rsh or passwordless ssh should be setup on the remote nodes as defined in the parallel engine configuration file for the mpp setup.

DSEE-TFPM-00392E  APT_PMPlayer::APT_PMPlayer: Timed out waiting for SL pointer on Player

Explanation:  This timeout error occurs when the section leader contacts the conductor for process update services during the parallel job run. This happens during synchronization between the conductor and the nodes.

User response:  Verify that the environment variable APT_PM PLAYER_CONNECT_TIMEOUT is set. Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00397E  Unable to start ORCHESTRATE process on node ScoreName (communication_name_process): accept(Client) failed, error

Explanation:  This error occurs when transmitting information to the player process from the nodes during a parallel job run.

User response:  Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00398E  Unable to start ORCHESTRATE process on node ScoreName (communication_name_process): connect(Client) failed, error

Explanation:  This error occurs when transmitting information to the player process from the nodes during a parallel job run. This error occurs while waiting for the player connection process on the section leader.

User response:  Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

DSEE-TFPM-00402I  Could not install APT_OsseDumpStack signal handler

Explanation:  This is an initialization error for signal handing during stack generation on UNIX.

User response:  Verify that the environment variable APT_DUMP_STACK is set. No other user action is required. IBM Software Support will use this message to debug related errors.

DSEE-TFPM-00404E  APT_PM_StartProgram: fork failed in process system_process_ID with errno error (error_number).

Explanation:  This is generated when the initial fork() system call fails during startup during a job run on UNIX. This message is used because the existing message TFPM00383 for fork() failure in the APT_PM_StartProgram() is incorrect.
**User response:** Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**DSEE-TFPM-00405E**

APT_PMConnectionRecord::start: failed after starting NodesStarted of NodesDefined processes.

**Explanation:** This is generated when the fork() system call fails at the startup of nodes in the APT_PMConnectionRecord() during the job run.

**User response:** Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**DSEE-TFPM-00406I** The section leader on NodeName died, restarting section leader on NodeName.

**Explanation:** This is generated when trying to re-start the node during a parallel job run. The environment variable APT_PM_RETRY_FAILED_SL_ON_STARTUP is turned on when this occurs.

**User response:** No action required. IBM Software Support will use this message to debug related errors.

**DSEE-TFPM-00407E** Unable to start ORCHESTRATE process on node ScoreName communication_name_process:

**Explanation:** The player process failed on the node during the parallel job run. This occurs when console events are sent by the node to the player process.

**User response:** Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**DSEE-TFPM-00408E** Unable to start ORCHESTRATE process on node ScoreName communication_name_process: SetEvent() failed, error.

**Explanation:** This error occurs when there is a synchronization failure with the spawned player process. The conductor is notified about the failure during the job run.

**User response:** Collect the job logs and the parallel engine configuration file for the job run, and then contact IBM Software Support.

**DSEE-TFPM-00409E** Unable to start ORCHESTRATE process on node ScoreName communication_name_process: WaitForSingleObject() failed, error.
Chapter 9. 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.

**Explanation:** The record_delim_string argument must be a string value. [0] was the returned 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.

**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.

**Explanation:** The record_format variable must have a sub-property type. [0] was the returned value.

**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.

**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.

**Explanation:** The record_length variable must be a string value. [0] was the returned 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.

**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.

**Explanation:** The sub-property type in the record_format argument must be a string value. [0] was the returned value.

**System action:** None.

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

**Explanation:** Only one input source 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.

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

**System action:** None.

**User response:** 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: Use a valid character set name, such as UTF-8.
Chapter 10. 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.

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 (2^n). 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
Use the setAlignment() method only on a raw field descriptor object with a value that is n².

**Explanation:** The setAlignment() method was called on a raw field descriptor object 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.

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.

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.

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.

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, check the field descriptor to ensure that the setSchema() method was not called. If the setSchema() method was called, remove it.

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.

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.

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.
User response: Ensure that a n² 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, 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 11. 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 are recommended because they are portable across the commonly used character sets.
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.
Chapter 12. TFSU: Subprocess operator

The following topics describe various DSEE-TFSU messages.

**DSEE-TFSU-000153** {0}: WARNING: environment variable {1}, currently set to {2}, will be overlaid with {3}

**Explanation:** The operator {0} is a wrapped subprocess operator. It has been configured to set the environment variable {1} to the value {2} before invoking the subprocess; however, the variable is already in the environment with the value {2}. The configured value will overlay the previous value. This is most commonly seen for the following environment variables:

- PATH
- LD_LIBRARY_PATH
- LIBPATH
- SHLIBPATH

**System action:** None.

**User response:** Ensure that the wrapped subprocess is appropriately overlaying the value of the environment variable.

**DSEE-TFSU-00154** fork failed, {0}{1}

**Explanation:** The fork system call failed while creating a subprocess used by a wrapped subprocess operator. The error string for the errno returned by fork is {0}, and the identifier of the operator is {1}.

**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-TFSU-00190** subprocess failed with exit code {0},{1}

**Explanation:** The command invoked by a wrapped subprocess operator has terminated with an unexpected exit code (TFSU0190) or signal (TFSU0191). The exit code ((0)) or signal number ((0)) and name ((1)) will be displayed, followed by the operator's identifier.

**System action:** None.

**User response:** Indicates either an error in describing the wrapped command or a runtime error in the command.

**Note:** This may correctly indicate that an error condition has occurred that should cause the job to fail.

**DSEE-TFSU-00191** subprocess failed with Unix signal {0}(1)(2)

**Explanation:** The command invoked by a wrapped subprocess operator has terminated with an unexpected exit code (TFSU0190) or signal (TFSU0191). The exit code ((0)) or signal number ((0)) and name ((1)) will be displayed, followed by the operator's identifier.

**System action:** None.

**User response:** Indicates either an error in describing the wrapped command or a runtime error in the command.

**Note:** This may correctly indicate that an error condition has occurred that should cause the job to fail.

**DSEE-TFSU-00277** Operator "[0]" is not wave aware; the operator will be reset and rerun on each wave if multiple waves present. This may lead to incorrect results and memory issues.

**Explanation:** If this message is generated, a non-wave-aware operator was used.

Operators typically are capable of handling end-of-wave markers on their input data sets. If a custom operator is not explicitly coded to handle the end-of-wave marker, the parallel execution framework will terminate and restart the operator for each wave, which might result in memory leaks or other undesirable behavior. Similarly, connector stages can be configured to produce end-of-wave markers, so that this error might occur.

**System action:** None.

**User response:** Most operators have been modified to correctly handle end-of-wave. Update the operator to make it wave aware, and call setWaveAware() in describeOperator() to inform the framework that the operator knows how to handle waves. If the job exhibits incorrect behavior, modify the flow to avoid using the operator.

© Copyright IBM Corp. 2006, 2012
Chapter 13. TOCC: Change capture

The following topics describe various DSEE-TOCC messages.

DSEE-TOCC-00005  A field cannot be both a key and a value.

**Explanation:** The Change Capture operator matches before and after datasets on one or more key fields and records the changes between the datasets. The operator can see which fields are the keys used to match the records ("key" fields) and which fields should be examined for changes ("value" fields). A field cannot be specified as both a key and value field.

**System action:** None.

**User response:** Ensure that the key and value fields are distinct sets of fields.

DSEE-TOCC-00007  There is a mis-sort in the before dataset at the key.

**Explanation:** The input datasets to Change Capture must be sorted on the key fields. Generally, the operator ensures this by automatically inserting a sort on each of the inputs. However, the user may request that automatic sort insertion be turned off, in which case the user is responsible for manually inserting any required sorts. If this is not done correctly, these messages are generated.

**System action:** None.

**User response:** Either re-enable automatic sort insertion, or manually insert the required sorts.

DSEE-TOCC-00008  There is a mis-sort in the after dataset at the key.

**Explanation:** The input datasets to Change Capture must be sorted on the key fields. Generally, the operator ensures this by automatically inserting a sort on each of the inputs. However, the user may request that automatic sort insertion be turned off, in which case the user is responsible for manually inserting any required sorts. If this is not done correctly, these messages are generated.

**System action:** None.

**User response:** Either re-enable automatic sort insertion, or manually insert the required sorts.
Chapter 14. TOCM: Compare operator

The following topics describe DSEE-TOCM messages.

DSEE-TOCM-00006 The first data set does not have field "[0]".

**Explanation:** The Compare operator allows the user to specify the fields to be used for comparison. If field [0] is specified as a comparison field and it is not present in the first input dataset, this message will be produced.

**Note:** If a field is specified that is present in the first input dataset but not the second, the message produced is:

**TFIP0034**

Error when checking operator:
On input data set 1:
Could not find input field "[0]".

**System action:** None.

**User response:** Ensure that all the fields specified as comparison fields are present in both input datasets.

DSEE-TOCM-00007 The input datasets have no top-level fields in common.

**Explanation:** If the user does not specify which fields are to be used as comparison fields, then all fields that have the same name in both datasets will be used. If no such fields exist, this message is generated.

**System action:** None.

**User response:** Rename the appropriate comparison fields in one input dataset or the other so that there are eligible comparison fields.

DSEE-TOCM-00009 On partition [0], record [1] differed.

**Explanation:** If the user specifies the -abortOnDifference option, the Compare operator will generate this message when records are found that do not have matching comparison fields. [0] specifies the partition in which the miscomparison occurred, and [1] is the record number. Note that record numbers are zero-origin; the first record is record 0.

**System action:** None.

**User response:** None; presumably this is the desired behavior.

DSEE-TOCM-00010 On partition [0], the first dataset had [1] records and the second dataset had [2] records.
Chapter 15. TODF: Diff operator

The following topics describe DSEE-TODF messages.

DSEE-TODF-00001 All result types are being dropped.

Explanation: The Diff operator compares two input datasets and can produce output records for every difference between the inputs, namely:
- insertions
- deletions
- edits (records in which the key fields match but the value fields differ)
- copies (records in which all value fields are identical)

By default, the operator produces output for all 4 cases, and the user may request that only certain cases be kept. If the user requests that all 4 cases be dropped, this message is generated.

System action: None.
User response: Keep at least one type of record difference.

DSEE-TODF-00002 The before input is not sorted at record {0}.

Explanation: The input datasets to Diff must be sorted on the key fields. Normally, the operator insures this by automatically inserting a sort on each of the inputs. However, a user may request that automatic sort insertion be turned off, in which case the user is responsible for manually inserting any required sorts. If this is not done correctly, these messages are generated.

System action: None.
User response: Either re-enable automatic sort insertion, or manually insert the required sorts.

DSEE-TODF-00003 The after input is not sorted at record {0}.

Explanation: The input datasets to Diff must be sorted on the key fields. Normally, the operator insures this by automatically inserting a sort on each of the inputs. However, a user may request that automatic sort insertion be turned off, in which case the user is responsible for manually inserting any required sorts. If this is not done correctly, these messages are generated.

System action: None.
User response: Either re-enable automatic sort insertion, or manually insert the required sorts.

© Copyright IBM Corp. 2006, 2012
Chapter 16. 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 with the -fileset option. These options cannot be used together.

**System action:** None.

**User response:** Remove the -destinationlist option.

DSEE-TOIX-00090  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-00091  The -fileset option cannot be used with the -destinationlist option.

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

**System action:** None.

**User response:** Remove the -fileset option.

DSEE-TOIX-00092  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-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-00094  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-00095  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-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:
1) the import schema you specified is incorrect
2) 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.
Chapter 17. 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: The fork system call failed while creating a subprocess needed for sorting.
System action: The DataStage job fails. Other messages are issued.
User response: Reduce the total amount of memory used by the job, or make more memory available to the job.

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. The schema variable field must be eScalar.

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 18. TOSH: Orchestrate syntax

The following topics describe various DSEE-TOSH messages.

<table>
<thead>
<tr>
<th>Message Code</th>
<th>Message Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TOSH-00000</td>
<td>Could not locate operator definition, wrapper, or UNIX command for &quot;db2read&quot;.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>Could not locate operator definition, wrapper, or UNIX command for &quot;db2read&quot;.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>Check that all needed libraries are preloaded, and check the PATH for the wrappers.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Message Code</th>
<th>Message Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TOSH-00384</td>
<td>Could not locate operator definition, wrapper, or UNIX command for &quot;oraread&quot;.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>System could not locate operator definition, wrapper, or UNIX command for &quot;oraread&quot;.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>Check that all needed libraries are preloaded, and check the PATH for the wrappers.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Message Code</th>
<th>Message Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TOSH-00049</td>
<td>Parameter specified but not used in flow: {0}</td>
</tr>
<tr>
<td>Explanation:</td>
<td>{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.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>If the message indicates a mismatch between a parameter definition and its reference, correct the mismatch.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Message Code</th>
<th>Message Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEE-TOSH-00205</td>
<td>PATH search failure</td>
</tr>
<tr>
<td>Explanation:</td>
<td>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.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>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.</td>
</tr>
</tbody>
</table>
Chapter 19. 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-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

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.
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.

**** 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.

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.

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.

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.

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.

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.

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
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.
Appendix A. Product accessibility

You can get information about the accessibility status of IBM products.

The IBM InfoSphere Information Server product modules and user interfaces are not fully accessible. The installation program installs the following product modules and components:

- IBM InfoSphere Business Glossary
- IBM InfoSphere Business Glossary Anywhere
- IBM InfoSphere DataStage
- IBM InfoSphere FastTrack
- IBM InfoSphere Information Analyzer
- IBM InfoSphere Information Services Director
- IBM InfoSphere Metadata Workbench
- IBM InfoSphere QualityStage

For information about the accessibility status of IBM products, see the IBM product accessibility information at [http://www.ibm.com/able/product_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html).

**Accessible documentation**

Accessible documentation for InfoSphere Information Server products is provided in an information center. The information center presents the documentation in XHTML 1.0 format, which is viewable in most Web browsers. XHTML allows you to set display preferences in your browser. It also allows you to use screen readers and other assistive technologies to access the documentation.

The documentation that is in the information center is also provided in PDF files, which are not fully accessible.

**IBM and accessibility**

See the [IBM Human Ability and Accessibility Center](http://www.ibm.com/able) for more information about the commitment that IBM has to accessibility.
Appendix B. Reading command-line syntax

This documentation uses special characters to define the command-line syntax.

The following special characters define the command-line syntax:

- **[ ]** Identifies an optional argument. Arguments that are not enclosed in brackets are required.
- **...** Indicates that you can specify multiple values for the previous argument.
- **|** Indicates mutually exclusive information. You can use the argument to the left of the separator or the argument to the right of the separator. You cannot use both arguments in a single use of the command.
- **{ }** Delimits a set of mutually exclusive arguments when one of the arguments is required. If the arguments are optional, they are enclosed in brackets ([ ]).

**Note:**
- The maximum number of characters in an argument is 256.
- Enclose argument values that have embedded spaces with either single or double quotation marks.

For example:

**wssetsrc** [-S server] [-l label] [-n name] source

The source argument is the only required argument for the wssetsrc command. The brackets around the other arguments indicate that these arguments are optional.

**wlsac** [-l | -f format] [key...] profile

In this example, the -l and -f format arguments are mutually exclusive and optional. The profile argument is required. The key argument is optional. The ellipsis (...) that follows the key argument indicates that you can specify multiple key names.

**wrbiimport** (rule_pack | rule_set)...

In this example, the rule_pack and rule_set arguments are mutually exclusive, but one of the arguments must be specified. Also, the ellipsis marks (...) indicate that you can specify multiple rule packs or rule sets.
Appendix C. How to read syntax diagrams

The following rules apply to the syntax diagrams that are used in this information:

- Read the syntax diagrams from left to right, from top to bottom, following the path of the line. The following conventions are used:
  - The >>> symbol indicates the beginning of a syntax diagram.
  - The --> symbol indicates that the syntax diagram is continued on the next line.
  - The >-- symbol indicates that a syntax diagram is continued from the previous line.
  - The -->< symbol indicates the end of a syntax diagram.
- Required items appear on the horizontal line (the main path).

  >>>---required_item

- Optional items appear below the main path.

  >>>---required_item

  >>>---required_item

If an optional item appears above the main path, that item has no effect on the execution of the syntax element and is used only for readability.

  >>>---required_item

- If you can choose from two or more items, they appear vertically, in a stack. If you must choose one of the items, one item of the stack appears on the main path.

  >>>---required_item

  >>>---required_choice1

  >>>---required_choice2

If choosing one of the items is optional, the entire stack appears below the main path.

  >>>---required_item

  >>>---optional_choice1

  >>>---optional_choice2

If one of the items is the default, it appears above the main path, and the remaining choices are shown below.

  >>>---required_item

  >>>---default_choice

  >>>---optional_choice1

  >>>---optional_choice2

- An arrow returning to the left, above the main line, indicates an item that can be repeated.
If the repeat arrow contains a comma, you must separate repeated items with a comma.

A repeat arrow above a stack indicates that you can repeat the items in the stack.

- Sometimes a diagram must be split into fragments. The syntax fragment is shown separately from the main syntax diagram, but the contents of the fragment should be read as if they are on the main path of the diagram.

**Fragment-name:**

- Keywords, and their minimum abbreviations if applicable, appear in uppercase. They must be spelled exactly as shown.
- Variables appear in all lowercase italic letters (for example, column-name). They represent user-supplied names or values.
- Separate keywords and parameters by at least one space if no intervening punctuation is shown in the diagram.
- Enter punctuation marks, parentheses, arithmetic operators, and other symbols, exactly as shown in the diagram.
- Footnotes are shown by a number in parentheses, for example (1).
Appendix D. Contacting IBM

You can contact IBM for customer support, software services, product information, and general information. You also can provide feedback to IBM about products and documentation.

The following table lists resources for customer support, software services, training, and product and solutions information.

<table>
<thead>
<tr>
<th>Table 1. IBM resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resource</td>
</tr>
<tr>
<td>IBM Support Portal</td>
</tr>
<tr>
<td>Software services</td>
</tr>
<tr>
<td>My IBM</td>
</tr>
<tr>
<td>Training and certification</td>
</tr>
</tbody>
</table>
Appendix E. Accessing and providing feedback on the product documentation

Documentation is provided in a variety of locations and formats, including in help that is opened directly from the product client interfaces, in a suite-wide information center, and in PDF file books.

The information center is installed as a common service with IBM InfoSphere Information Server. The information center contains help for most of the product interfaces, as well as complete documentation for all the product modules in the suite. You can open the information center from the installed product or from a Web browser.

**Accessing the information center**

You can use the following methods to open the installed information center.

- Click the **Help** link in the upper right of the client interface.

  **Note:** From IBM InfoSphere FastTrack and IBM InfoSphere Information Server Manager, the main Help item opens a local help system. Choose **Help > Open Info Center** to open the full suite information center.

- Press the F1 key. The F1 key typically opens the topic that describes the current context of the client interface.

  **Note:** The F1 key does not work in Web clients.

- Use a Web browser to access the installed information center even when you are not logged in to the product. Enter the following address in a Web browser: http://host_name:port_number/infocenter/topic/com.ibm.swg.im.iis.productization.iisinfsv.home.doc/ic-homepage.html. The host_name is the name of the services tier computer where the information center is installed, and port_number is the port number for InfoSphere Information Server. The default port number is 9080. For example, on a Microsoft® Windows® Server computer named iisdocs2, the Web address is in the following format: http://iisdocs2:9080/infocenter/topic/com.ibm.swg.im.iis.productization.iisinfsv.nav.doc/dochome/iisinfsrv_home.html.

A subset of the information center is also available on the IBM Web site and periodically refreshed at [http://publib.boulder.ibm.com/infocenter/iisinfsv/v8r7/index.jsp](http://publib.boulder.ibm.com/infocenter/iisinfsv/v8r7/index.jsp).

**Obtaining PDF and hardcopy documentation**

- A subset of the PDF file books are available through the InfoSphere Information Server software installer and the distribution media. The other PDF file books are available online and can be accessed from this support document: [https://www.ibm.com/support/docview.wss?uid=swg27008803&wv=1](https://www.ibm.com/support/docview.wss?uid=swg27008803&wv=1)

- You can also order IBM publications in hardcopy format online or through your local IBM representative. To order publications online, go to the IBM Publications Center at [http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss](http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss)
Providing comments on the documentation

Your feedback helps IBM to provide quality information. You can use any of the following methods to provide comments:

- To comment on the information center, click the Feedback link on the top right side of any topic in the information center.
- **Send your comments by using the online readers' comment form at** [www.ibm.com/software/awdtools/rcf/](http://www.ibm.com/software/awdtools/rcf/)
- Send your comments by e-mail to comments@us.ibm.com. Include the name of the product, the version number of the product, and the name and part number of the information (if applicable). If you are commenting on specific text, include the location of the text (for example, a title, a table number, or a page number).
- **You can provide general product feedback through the Consumability Survey at** [www.ibm.com/software/data/info/consumability-survey](http://www.ibm.com/software/data/info/consumability-survey)
Notices and trademarks

This information was developed for products and services offered in the U.S.A.

Notices

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785 U.S.A.

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
1623-14, Shimotsuruma, Yamato-shi
Kanagawa 242-8502 Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites.
sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
J46A/G4
555 Bailey Avenue
San Jose, CA 95141-1003 U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to
IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:

© (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. _enter the year or years_. All rights reserved.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

**Trademarks**

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at [www.ibm.com/legal/copytrade.shtml](http://www.ibm.com/legal/copytrade.shtml).

The following terms are trademarks or registered trademarks of other companies:

Adobe is a registered trademark of Adobe Systems Incorporated in the United States, and/or other countries.

Intel and Itanium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows and Windows NT are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

The United States Postal Service owns the following trademarks: CASS, CASS Certified, DPV, LACST, ZIP, ZIP + 4, ZIP Code, Post Office, Postal Service, USPS and United States Postal Service. IBM Corporation is a non-exclusive DPV and LACST licensee of the United States Postal Service.

Other company, product or service names may be trademarks or service marks of others.
Index

B
 basic type messages imports and exports 23

C
 change capture messages 63 command-line syntax conventions 85 commands syntax 85
 Compare operator messages 65 customer support contacting 89

D
 data manager messages 13 Diff operator messages 67 DSEE-Miscellaneous messages 79 DSEE-TDOR messages 11 DSEE-TFDM messages 13 DSEE-TFIG messages 15 DSEE-TFIO messages 21 DSEE-TFIX messages 23 DSEE-TFLT messages 27 DSEE-TFRS messages 51 DSEE-TFRT messages 55 DSEE-TFST messages 59 DSEE-TFSU messages 61 DSEE-TOCC messages 63 DSEE-TOCM messages 65 DSEE-TODF messages 67 DSEE-TOIX messages 69 DSEE-TOSH messages 77 DSEE-TOSO messages 75

E
 export group component layer messages 15

F
 Filter operator messages 27

I
 I/O messages 21 import and export messages 69 basic types 23 record streams 51 import group component layer messages 15 input and output messages 21

L
 legal notices 93

M
 message ID definitions parallel engines 1 Message reference Parallel Engine Process Manager 29 messages, DSEE-Miscellaneous 79

O
 Oracle operator messages 11 orchestrate syntax messages 77

P
 parallel engines message ID definitions 1 product accessibility accessibility 83 product documentation accessing 91

R
 raw type messages 55 record stream messages 51

S
 software services contacting 89 Sort stage messages 75 special characters in command-line syntax 85 string type messages 59 subprocess operator messages 61 support customer 89 syntax command-line 85 syntax messages, orchestrate 77

T
 TFDM messages 13 TFIG messages 15 TFIO messages 21 TFIX messages 23 TFLT messages 27 TFRS messages 51 TFRT messages 55 TFST messages 59 TFSU messages 61 TOCC messages 63 TOCM messages 65 TODF messages 67 TOIX messages 69 TOSH messages 77 TOSO messages trademarks list of 93

W
 web sites non-IBM 87

© Copyright IBM Corp. 2006, 2012