

# **Java Runtime Exceptions**

## **User's Guide**

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Version 3.4



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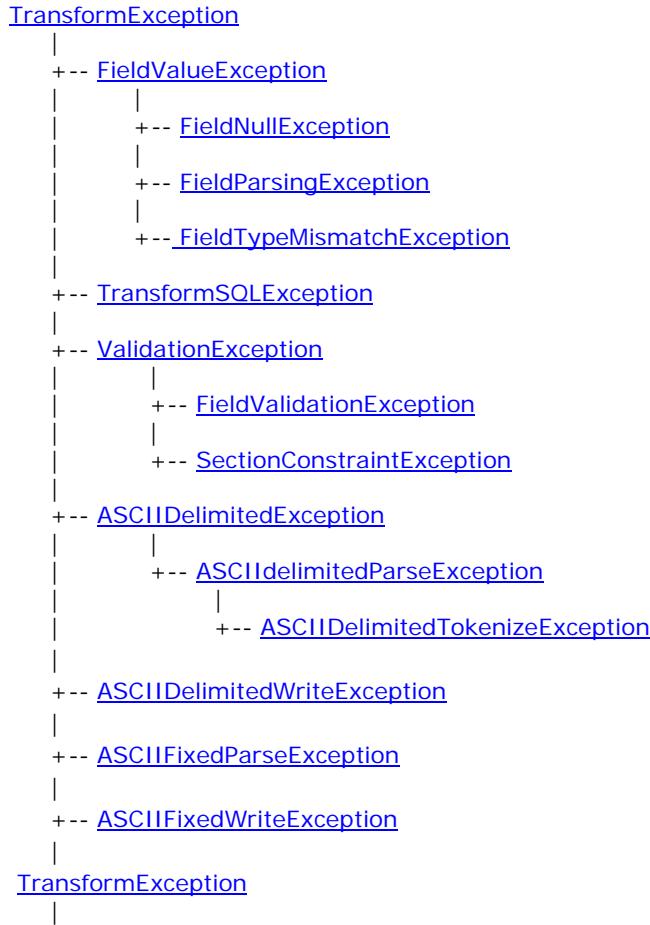
# Java Runtime Exceptions

The exceptions thrown by runtime system can be classified into the following categories:

1. [Core Exceptions](#)
2. [Plug-In Related Exceptions](#)

While the core exceptions are common for all Plug-Ins, the Plug-In related exceptions are specific to the corresponding Plug-In. TransformException is the root of all exceptions thrown by the runtime system except TransformRuntimeException that is derived from java.lang.RuntimeException.

The TransformException hierarchy is given below.



```

+-- InitializationException
|
| +-- UnhandledMessageException
| | |
| | +-- UnrecognizedMessageException
|
| +-- FCSParseException
|
| +-- FIXParsingException
|
| +-- FIXWriterException
|
| +-- KeyGenerationException
|
| +-- SwiftException
| | |
| | +-- SwiftParseException
| | | |
| | | +-- SwiftTokenizeException
|
| | +-- SwiftWriteException
|
| +-- UniversalParseException
|
| +-- UniversalwriteException
|
| +-- XMLParseException
|
| +-- XMLWriteException

```

## TransformException

TransformException represents the root of all exceptions thrown by runtime system except TransformRuntimeException. The caller can just catch TransformException or if finer details are needed any derived class can be caught.

The table given below summarizes the fields of TransformException.

Field Name	Mandatory/ Optional	Max Length	Description
Type	Mandatory	100	Type of the exception. Always 'TransformException'.
Message	Mandatory	500	Descriptive error message.
ErrorCode	Optional	100	Error code corresponding to the error that has occurred.

			<p>In case of validation this is the user defined error code in the cartridge.</p> <p>In case of other errors, this is the error code that has been specified in message.properties.</p>
Severity	Mandatory	100	<p>Severity of the error that has occurred. Possible values include</p> <ul style="list-style-type: none"> <li>fatal</li> <li>error</li> <li>warn</li> </ul>
Cascadable	Mandatory	N/A	<p>Whether the exception is cascadable or not. Possible values include</p> <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul>
FieldName	Optional	100	Name of the field in which error has occurred. Present in case of validation errors, parsing/writing errors that occur while parsing/writing a field's value.
FieldID	Optional	100	Name of the field in which error has occurred. Present in case of validation errors.
Error-Code	Optional	100	Error code corresponding to the error that has occurred. This occurs only in case of TransformRuntime exceptions.
Error-Phase	Mandatory	100	<p>Phase in which error has occurred. Allowed values are</p> <ul style="list-style-type: none"> <li>Input</li> <li>Output</li> <li>Internal Message</li> </ul>
Error-Type	Optional	100	Type of error that has occurred. Allowed

			<p>values are</p> <p>Parsing</p> <p>Required</p> <p>Validation</p> <p>Input Mapping</p> <p>Processing</p> <p>Output Writing</p>
Field-Value	Optional	10000	<p>Value of the field in which error has occurred.</p>
Location	Optional	100	<p>Location in input/output message where the error has occurred.</p> <p>Exceptions thrown during input parsing phase of input records in batch mode (applicable for ASCII Delimited and XML formats) always include the 'Location' field.</p> <p>Allowed values are</p> <p>Header</p> <p>Record</p> <p>Trailer</p>
Error-Record	Optional	10000	<p>The entire record in which the field that has resulted in error is present.</p> <p>All the fields present in the record are displayed along with the field that has resulted in error.</p> <p>Exceptions thrown during the 'Internal Message' phase always include the 'Error-Record' field.</p>
Error-Record-Index	Optional	100	<p>The index of the record in which the field that has resulted in error is present.</p>

			<p>Please note that the index starts from 0. This means that if error has occurred in a field present in the first record, then the index would be 0.</p> <p>Exceptions thrown during input parsing phase of input records in batch mode (applicable for ASCII Delimited and XML formats) always include the 'Error-Record-Index' field.</p>
Error-Line	Optional	1000	The actual line in the input message where error has occurred.
Internal-Code	Optional	100	Internal error code that corresponds to the actual error code.
line	Optional	20	Line number where the error has occurred.
column	Optional	20	<p>Position (column) in the line where the error has occurred.</p> <p>The line number is specified by the 'line' field.</p>
Index	Optional	100	<p>Index where the error has occurred in the input data.</p> <p>The index is calculated from the beginning of data.</p>
Trace	Optional	1000	Execution trace
subfield	Optional	100	Specific to SWIFT. Name of the subfield in which error has occurred.
Field	Optional	100	Specific to SWIFT. Tag for the field in which error has occurred.
sequence	Optional	100	Specific to SWIFT. Name of the sequence in which error has occurred.
qualifier	Optional	100	Specific to SWIFT. If error has occurred in a generic field, the name of the qualifier in which error has occurred.

**Notes:**

- | \_\_\_ All the fields of TransformException except the Cascadable field are of String type.
- | \_\_\_ Some of the error fields are not applicable in all formats (e.g. 'sequence' is specific to 'Swift').
- | \_\_\_ The error fields are applicable only in case of Java runtime errors.
- | \_\_\_ <StackTrace> is optional and it can be suppressed.

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**See Also:**

[Fields/Context properties of TransformException](#)  
[Java Runtime Exceptions](#)

## Fields/Context properties of TransformException

The fields of TransformException are either defined as fields in this class or as a context property.

The table given below lists the TransformException fields that are defined as fields in the class.

Field Name	The TransformException method used to access the corresponding value
Type	getType()
Message	getMessage()
ErrorCode	GetErrorCode()
Severity	getSeverity()
Cascadable	getCascadable()
FieldName	GetFieldName()
FieldID	getFieldID()

The table given below lists the TransformException fields that are set as context properties of the exception object thrown. The values of these properties can be accessed using the getContextProperty(java.lang.String name) method of TransformException.

<b>Field Name</b>	<b>Name of the Constant as defined in TransformException that can be used in the getContextProperty(java.lang.String name) method of TransformException to access the corresponding value</b>
Error-Code	ERROR_CODE
Error-Phase	ERROR_PHASE
Error-Type	ERROR_TYPE
Field-Value	ERROR_FIELD_VALUE
Location	ERROR_LOCATION
Error-Record	ERROR_RECORD
Error-Record-Index	ERROR_RECORD_INDEX
Error-Line	ERROR_LINE
Internal-Code	INTERNAL_CODE
line	LINE
column	COLUMN
Index	INDEX
Trace	ERROR_TRACE

The table given below lists the TransformException fields that can also be accessed using the methods of TransformException even though they are set as context properties of the exception object thrown. See the API documentation for more details.

<b>Field Name</b>	<b>The TransformException method used to access the corresponding value</b>
Error-Phase	getErrorPhase()
Error-Type	getErrorType()
Field-Value	getFieldValue()

**See Also:**

[TransformException](#)

## Core Exceptions

These exceptions are thrown by the core runtime system and these are applicable for all types of Plug-Ins.

The core exceptions can be further classified into the following categories:

1. [Runtime Exceptions](#)
2. [General Exceptions](#)
3. [Validation Exception](#)

**See Also:**

[Java Runtime Exceptions](#)

## Runtime Exceptions

The runtime exceptions caused typically by programming errors are represented by `TransformRuntimeException` and its subclasses. These exceptions are thrown by the core runtime system and these are applicable for all types of Plug-Ins. Please note that the `TransformRuntimeException` class is derived from unchecked `java.lang.RuntimeException`.

The hierarchy of `TransformRuntimeException` is given below:

```
TransformRuntimeException
| +-- FieldNotFoundException
| +-- TransformNullValueException
```

**See Also:**

[Validation Exceptions](#)

[Core Exceptions](#)

## TransformRuntimeException

This exception represents runtime exceptions caused by programming errors. Invalid input field values and invalid arguments passed to function calls used in formula also result in this kind of exception.

```

<Message>Unexpected exception. Date parsing error. '20031225' not in expected
format 'yyyy-MM-dd'</Message>
<ErrorCode>SRT563</ErrorCode>
<Severity>fatal</Severity>
<Cascadable>true</Cascadable>
<Error-Phase>Input</Error-Phase>
<Internal-Code>SRT563</Internal-Code>
<Error-Record>
    <?xml version="1.0" encoding="UTF-8" ?>
    <Data>
        <EncryptMethod>1</EncryptMethod>
        <HeartBtInt>2</HeartBtInt>
        <CustomDate>20031225</CustomDate>
    </Data>
</Error-Record>
<StackTrace>
Unexpected exception. Date parsing error. '20031225' not in expected format
'yyyy-MM-dd'
com.tplus.transform.runtime.TransformRuntimeException: Date parsing error.
'20031225' not in expected format 'yyyy-MM-dd'
...
</StackTrace>

```

## Fields within TransformRuntimeException

Message  
 ErrorCode  
 Severity  
 Cascadable  
 Error-Phase  
 Internal-Code  
 Error-Record  
 StackTrace

### See Also:

[Runtime Exceptions](#)  
[FieldNotFoundException](#)

## FieldNotFoundException

This exception can happen at any phase (input, Internal Message or output), in the following cases:

using a field within a formula without checking the occurrence of its parent section trying to access a field which is not defined as part of the data object

```

<Type>TransformException</Type>
<Message>Unexpected runtime error. 'Field with name Account not
defined'.</Message>
<ErrorCode>SRT216</ErrorCode>
<Severity>fatal</Severity>
<Cascadable>true</Cascadable>
<Internal-Code>SRT216</Internal-Code>
<Error-Phase>Internal Message</Error-Phase>
<Error-Record>
    ...
</Error-Record>
<StackTrace>
    Unexpected runtime error. 'Field with name Account not defined'.
    com.tplus.transform.runtime.FieldNotFoundException: Field with name
    Account not defined
    at
    com.tplus.transform.runtime.DataObjectMetaInfo.getFieldMetaInfo(DataObjectMe
    taInfo.java:168)
    ...
</StackTrace>

```

**See Also:**

[Runtime Exceptions](#)

## TransformNullValueException

This is a subclass of TransformRuntimeException and it is thrown when trying to access an empty field (field with null value) from a formula. This can be avoided by checking for null values using the `IsNull()` and `IsNotNull()` functions.

```

<Message>Unexpected exception. Attempt to access field 'XPR' with null
value</Message>
<ErrorCode>SRT500</ErrorCode>
<Severity>fatal</Severity>
<Cascadable>true</Cascadable>
<Error-Phase>Input</Error-Phase>
<Internal-Code>SRT500</Internal-Code>
<Error-Record>
    <?xml version="1.0" encoding="UTF-8" ?>
    <Data>
        <ClOrdID>BHA 0066/11172003</ClOrdID>
        <HandlInst>1</HandlInst>
        <Symbol>SU</Symbol>
        <Side>1</Side>

```

```

<OrderQty>1000</OrderQty>
<OrdType>2</OrdType>
<Price>21.76</Price>
<TimeInForce>0</TimeInForce>
<Rule80A>A</Rule80A>
</Data>
</Error-Record>
<StackTrace>
Unexpected exception. Attempt to access field 'XPR' with null value
com.tplus.transform.runtime.TransformNullValueException: Attempt to access
field 'XPR' with null value
...
</StackTrace>

```

## Fields within TransformNullValueException

Message  
 ErrorCode  
 Severity  
 Cascadable  
 Error-Phase  
 Internal-Code  
 Error-Record  
 StackTrace

### See Also:

[Runtime Exceptions](#)

## Validation Exceptions

The ValidationException class and its subclasses (shown in the hierarchy tree given below) represent errors while validating the message/field.

```

ValidationException
|
+-- FieldValidationException
|
+-- SectionConstraintException

```

### See Also:

[Core Exceptions](#)

## FieldValidationException

This exception can happen at any phase (input, Internal Message or output) and it exception is thrown when the validation rule applied for a field/message fails.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>0532 is not valid.</Message>
  <ErrorCode>T50</ErrorCode>
  <Severity>error</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>61.Entry_Date</FieldName>
  <FieldID>61[0].Entry_Date</FieldID>
  <Internal-Code>F61-D</Internal-Code>
  <Error-Type>Validation</Error-Type>
</TransformException>
```

### Fields within FieldValidationException

The optional fields are marked with question mark (?).

Type

Message

ErrorCode

In case of SWIFT format, this field will contain the error code as defined in SWIFT SRG.

Severity

Cascadable

Internal-Code

FieldName

This field is set to 'Message' if the 'Applies To' column of the corresponding Formula Validation is left empty.

FieldID

Please also note that this field is populated only when the validation rule is applied to a field. It will not be populated when the validation rule is specified at the message level, i.e. if the 'Applies To' column of the Formula Validation is left empty.

Error-Type

This is always set to 'Validation'.

#### See Also:

[Validation Exceptions](#)

## SectionConstraintException

This exception can happen at any phase (input, Internal Message or output) and it is thrown when the number of elements in a section does not match the Min/Max Occurs properties (repeating/optional properties) specified for that section.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>The number of elements (3) in the section 'items.item' is
greater than 2.</Message>
  <ErrorCode>SRT302</ErrorCode>
  <Severity>error</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>items.item</FieldName>
  <FieldID>items.item</FieldID>
  <Internal-Code>SRT302</Internal-Code>
  <Error-Phase>Output</Error-Phase>
  <Error-Type>Output Writing</Error-Type>
</TransformException>
```

### Fields within SectionConstraintException

The optional fields are marked with question mark (?).

Type  
Message  
ErrorCode  
Severity  
Cascadable  
FieldName  
FieldID  
Internal-Code  
Error-Phase  
Error-Type

#### See Also:

[Validation Exceptions](#)

## General Exceptions

TransformSQLEception, KeyGenerationException and FieldValueException along with its subclasses belong to this category of exceptions.

[TransformSQLEception](#)

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[KeyGenerationException](#)

```
FieldValueException
|
+-- FieldNullException
|
+-- FieldParsingException
|
+-- FieldTypeMismatchException
```

**See Also:**

[Core Exceptions](#)

## TransformSQLEception

Thrown by the Persistence Designer when one of the following operations fails: persisting NO, updating NO, removing NO and executing query (defined using Persistence Designer -> Queries UI).

```
<TransformException>
  <Type>TransformException</Type>
  <Message>
    Error persisting normalized object. SQL error : ORA-01401: inserted
    value too large for column
  </Message>
  <ErrorCode>SRT636</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>SRT636</Internal-Code>
  <Trace>at PersistInColumnsFlow.Persist1(Persist Invoice)</Trace>
</TransformException>
```

## Fields within TransformSQLEception

Type  
Message  
ErrorCode  
Severity  
Cascadable  
Internal-Code  
Trace

**See Also:**

[General Exceptions](#)

## KeyGenerationException

This exception is thrown in the following cases:

- if there is a problem in creating the connection to the specified datasource
- if the specified table is not found in the datasource
- if an SQL exception is thrown while executing database operations

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Error generating unique key. SQLException:
java.sql.SQLException: Table not found: UNIQUEKEYGENTBL in statement [select
CurrentKey from UniqueKeyGenTbl]</Message>
  <ErrorCode>SRT631</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>SRT631</Internal-Code>
</TransformException>
```

### See Also:

[General Exceptions](#)

## FieldNullException

After completing the post-processing of a normalized object, its mandatory fields are checked for the presence of their value. If a mandatory field is not assigned a value, it results in this exception.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Not-null check failed. The field 'TotalCost' has null
value</Message>
  <ErrorCode>SRT600</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>TotalCost</FieldName>
  <FieldID>TotalCost</FieldID>
  <Internal-Code>SRT600</Internal-Code>
  <Trace>at Input2NOFlow.Validate1(Validate)</Trace>
</TransformException>
```

### Fields within FieldNullException

Type  
Message

ErrorCode  
Severity  
Cascadable  
FieldName  
FieldID  
Internal-Code  
Trace

**See Also:**

[General Exceptions](#)

## FieldParsingException

This exception is thrown in the following cases:

- If a mandatory field/section is missing in the input message
- If a duplicate field/section is present in the input message
- If the value does not match the corresponding field type
- Incorrect value in case of FILLER fields in Universal format

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Field 'RecordID' cannot be null.</Message>
  <ErrorCode>SRT129</ErrorCode>
  <Severity>error</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>RecordID</FieldName>
  <Internal-Code>SRT129</Internal-Code>
  <Error-Type>Required</Error-Type>
  <Location>Record</Location>
  <Error-Phase>Input</Error-Phase>
</TransformException>
```

**See Also:**

[General Exceptions](#)

## FieldTypeMismatchException

This exception occurs when a data access function (such as GetInt(), GetString(), etc. in the aggregate function category) is used in a formula to access a field of a data object (element of a section) whose type does not match the type expected by the data access function. This exception can happen at any phase (input, Internal Message or output).

```

<TransformException>
  <Type>TransformException</Type>
  <Message>
    Type mismatch while accesing field 'ItemID'. The field is not of
    specified type.
  </Message>
  <ErrorCode>SRT580</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>SRT580</Internal-Code>
  <Error-Phase>Internal Message</Error-Phase>
  <Error-Record>
    <?xml version="1.0" encoding="UTF-8" ?>
    <NewOrderBT>
      <Item>
        <ItemID>ITM1</ItemID>
        <Qty>5</Qty>
        <Price>100.0</Price>
      </Item>
    </NewOrderBT>
  </Error-Record>
</TransformException>

```

**See Also:**

[General Exceptions](#)

## Plug-In Related Exceptions

The exceptions listed here apply to you only if you are using the corresponding plug in.

Plug-In related exceptions can be classified into the following:

- Parse Exceptions
- Write Exceptions

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The parse exceptions happen at Input Parsing phase. At this time, the input object is not instantiated yet, so the <Error-Field-ID> will not be populated.

The write exceptions happen when the value of a mandatory field is missing (null) or the output value violates the specified constraint/format.

**See Also:**

[Swift Plug-In Exceptions](#)

[FIX Plug-In Exceptions](#)  
[FCS Plug-In Exceptions](#)  
[XML Plug-In Exceptions](#)  
[Universal Plug-In Exceptions](#)  
[ASCII Delimited Plug-In Exceptions](#)  
[ASCII Fixed Plug-In Exceptions](#)

## Swift Plug-In Exceptions

The Swift Plug-In throws the following exceptions:

[SwiftParseException](#)  
[SwiftTokenizeException](#)  
[SwiftWriteException](#)

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See Also:

[Plug-In Related Exceptions](#)

### SwiftParseException

Reasons for this exception include the following:

- Extra characters left at the end of a field/block/message.
- Missing mandatory field/block.
- Unable to locate end of a block.
- The field value violates the specified constraint such as length or format.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>In the value (1,123) of the subfield 'Amount', number of digits
following the comma, exceeds the maximum number (2) allowed for the specified
currency 'USD'.</Message>
  <ErrorCode>C03</ErrorCode>
  <Severity>error</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>B.32H.Amount</FieldName>
  <FieldID>B.32H.Amount</FieldID>
  <Internal-Code>SWT313</Internal-Code>
  <field>32</field>
  <Error-Line>:32H:USD1,123</Error-Line>
  <line>22</line>
  <column>14</column>
  <sequence>B</sequence>
  <subfield>Amount</subfield>
  <Field-Value>1,123</Field-Value>
```

```
<Error-Phase>Input</Error-Phase>
<Error-Type>Parsing</Error-Type>
</TransformException>
```

**See Also:**

[Swift Plug-In Exceptions](#)

## SwiftTokenizeException

This is a subclass of SwiftParseException and these exceptions are thrown when parsing the value corresponding to a sub-field.

Reasons for this exception include the following:

- One of the characters in the value corresponding to a subfield does not match the Swift format character used in the specifying the subfield format
- The value corresponding to a multi-line format exceeds the line limit.
- The integer part of decimal number is missing
- A decimal separator (comma) in the amount/number subfield is missing
- Multiple commas in a decimal number
- Sign character (N) expected for a subfield is missing
- Separator character expected for a subfield is missing
- Literal expected for a subfield is missing
- Unexpected additional characters at the end of a field
- Not enough characters found for a subfield
- Subfield itself is missing

```
<TransformException>
  <Type>TransformException</Type>
  <Message>A decimal separator (comma) in the amount/number subfield
'Amount' with format '15d' is missing. Illegal value '0'.</Message>
  <ErrorCode>T43</ErrorCode>
  <Severity>error</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>A.32a.Amount</FieldName>
  <FieldID>A.32a.Amount</FieldID>
  <subfield>Amount</subfield>
  <field>32</field>
  <Error-Line>:32:NINR0</Error-Line>
  <line>6</line>
  <column>9</column>
  <Internal-Code>SWT310</Internal-Code>
  <Field-Value>0</Field-Value>
  <Error-Phase>Input</Error-Phase>
  <Error-Type>Parsing</Error-Type>
```

```
</TransformException>
```

**See Also:**

[Swift Plug-In Exceptions](#)

## SwiftWriteException

Reasons for this exception include the following:

- Missing mandatory field/sub-field/qualifier.
- Repeating qualifier.
- Unexpected format option for swift field.
- Unexpected additional characters at the end of field.
- In the value of a sub-field, the number of digits following the comma exceeds the maximum number allowed for the specified currency.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Length of subfield 'Sender's_Reference' with format '16x' must
be less than or equal to 16 characters, found 17 characters. Illegal value
'12345678901234567'.</Message>
  <ErrorCode>T33</ErrorCode>
  <Severity>error</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>A.20.Sender's_Reference</FieldName>
  <FieldID>A.20.Sender's_Reference</FieldID>
  <subfield>Sender's_Reference</subfield>
  <Field-Value>12345678901234567</Field-Value>
  <Internal-Code>SWT303C</Internal-Code>
  <field>20</field>
  <sequence>A</sequence>
  <Error-Phase>Output</Error-Phase>
  <Error-Type>Output Writing</Error-Type>
</TransformException>
```

**See Also:**

[Swift Plug-In Exceptions](#)

## FIX Plug-In Exceptions

The FIX Plug-In throws the following exceptions:

[FIXParsingException](#)  
[FIXWriterException](#)

← → Formatted: Bullets and Numbering

**See Also:**

[Plug-In Related Exceptions](#)

## FIXParsingException

Reasons for this exception include the following:

- Blob type tag value pair has incorrect data length, character after the specified length is not the SOH character.
- Unexpected end of input while looking for data.
- Empty tag or value.
- Cannot convert tag to integer.
- Unexpected tag.
- Unexpected FIX data at the end.
- When the value corresponding to a Boolean/Boolean\_4\_1 FIX type field does not start with Y or N.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Unexpected tag 789</Message>
  <ErrorCode>FIX112</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>FIX112</Internal-Code>
  <Location>Header</Location>
  <Error-Phase>Input</Error-Phase>
  <Error-Type>Parsing</Error-Type>
</TransformException>
```

**See Also:**

[FIX Plug-In Exceptions](#)

## FIXWriterException

This exception is thrown when a mandatory field is missing while writing the output.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>BeginString is a mandatory field. Tag 'BeginString[8]' cannot be
null.</Message>
  <ErrorCode>FIX114</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
```

```
<Internal-Code>FIX114</Internal-Code>
<Error-Phase>Output</Error-Phase>
<Error-Record>...</Error-Record>
</TransformException>
```

**See Also:**

[FIX Plug-In Exceptions](#)

## FCS Plug-In Exceptions

The FCS Plug-In throws the following exception:

[FCSParseException](#)

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**See Also:**

[Plug-In Related Exceptions](#)

### FCSParseException

Reasons for this exception include the following:

- Input values does not conform to the specified format
- Unexpected characters at the end of line

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Expected field 'Exchange Code'</Message>
  <ErrorCode>FCS107</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>FCS107</Internal-Code>
  <line>2</line>
  <column>6</column>
  <Error-Line>ADMIN RPX XYZ</Error-Line>
  <Error-Phase>Input</Error-Phase>
  <Error-Type>Parsing</Error-Type>
</TransformException>
```

**See Also:**

[FCS Plug-In Exceptions](#)

# XML Plug-In Exceptions

The XML Plug-In throws the following exception:

[XMLParseException](#)  
[XMLWriteException](#)

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**See Also:**

[Plug-In Related Exceptions](#)

## XMLParseException

Exceptions of this type include all exceptions thrown by the SAX parser.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Parsing Error. The entity "Sitel" was referenced, but not
declared.</Message>
  <ErrorCode>XML101</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>XML101</Internal-Code>
  <line>4</line>
  <column>28</column>
</TransformException>
```

**See Also:**

[XML Plug-In Exceptions](#)

## XMLWriteException

Reasons for this exception include the following:

Missing mandatory field/section/attribute.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Missing mandatory section 'kunde.name'.</Message>
  <ErrorCode>SRT300</ErrorCode>
  <Severity>error</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>kunde.name</FieldName>
  <FieldID>kunde.name</FieldID>
  <Internal-Code>SRT300</Internal-Code>
```

```
<Error-Phase>Output</Error-Phase>
<Error-Type>Output Writing</Error-Type>
</TransformException>
```

**See Also:**

[XML Plug-In Exceptions](#)

## Universal Plug-In Exceptions

The Universal Plug-In throws the following exceptions:

[UniversalParseException](#)  
[UniversalWriteException](#)

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**See Also:**

[Plug-In Related Exceptions](#)

### UniversalParseException

Reasons for this exception include the following:

- Incorrect section/field tag
- Incorrect section/field tag separator
- Field value does not correspond to the specified format
- Unexpected additional data at the end of input.
- Not enough characters corresponding to a fixed length field
- Incorrect filler value
- Missing mandatory field

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Section tag separator ':' expected. Found 'V'.</Message>
  <ErrorCode>UNV102</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>Tagged</FieldName>
  <Internal-Code>UNV102</Internal-Code>
  <Index>10</Index>
  <line>1</line>
  <column>11</column>
  <Error-Phase>Input</Error-Phase>
  <Error-Type>Parsing</Error-Type>
</TransformException>
```

**See Also:**

[Universal Plug-In Exceptions](#)

## UniversalWriteException

Reasons for this exception include the following:

- Length of the value does not match the specified length
- Record length exceeding the specified upper limit
- Overflow of digits in packed decimal format
- More than one choice has a non-null value
- All the choices are null
- Missing mandatory field/section.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Cannot represent 9123 in 1 digits</Message>
  <ErrorCode>UNV126</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <FieldName>fltf4</FieldName>
  <Internal-Code>UNV126</Internal-Code>
  <Error-Phase>Output</Error-Phase>
  <Error-Record>
    ...
  </Error-Record>
</TransformException>
```

**See Also:**

[Universal Plug-In Exceptions](#)

# ASCII Delimited Plug-In Exceptions

The ASCII Delimited Plug-In throws the following exceptions:

```
ASCIIDelimitedException
| +-- ASCIIDelimitedParseException
|   | +-- ASCIIDelimitedTokenizeException
```

**See Also:**

[Plug-In Related Exceptions](#)

## ASCIIDelimitedParseException

Reasons for this exception include the following:

The input does not have the minimum number (two) of records  
Incorrect number of fields in header, record or trailer

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Incorrect number of fields in RecordData. Expected fields 2,
found 1</Message>
  <ErrorCode>ASC122</ErrorCode>
  <Severity>error</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>ASC122</Internal-Code>
  <Location>Record</Location>
  <Error-Phase>Input</Error-Phase>
  <Trace>at Flow2.Parse1(Parse Msg)
    at BuggyDynamicBinaryParamsInvocationFlow.Invoke2(Invoke Flows)</Trace>
</TransformException>
```

**See Also:**

[ASCII Delimited Plug-In Exceptions](#)

## ASCIIDelimitedTokenizeException

Reasons for this exception include the following:

In a quoted field the closing quote corresponding to the opening quote is not found  
Improper quoted token

EOL reached before closing quote found

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Improper quoted token</Message>
  <ErrorCode>ASC119</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>ASC119</Internal-Code>
  <column>7</column>
  <line>2</line>
  <Error-Line>ITM1,"" ,10,100.0</Error-Line>
  <Trace>at CommaDelTestFlow.Parse1(Parse)</Trace>
</TransformException>
```

**See Also:**

[ASCII Delimited Plug-In Exceptions](#)

## ASCIIDelimitedWriteException

Reasons for this exception include the following:

Incorrect number of fields in header, record or trailer  
Missing mandatory field.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>The mandatory field 'joindate' is missing.</Message>
  <ErrorCode>ASC121</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>ASC121</Internal-Code>
  <Error-Phase>Output</Error-Phase>
  <Error-Record>
    ...
  </Error-Record>
</TransformException>
```

**See Also:**

[ASCII Delimited Plug-In Exceptions](#)

# ASCII Fixed Plug-In Exceptions

The ASCII Fixed Plug-In throws the following exceptions:

[ASCIIFixedParseException](#)  
[ASCIIFixedWriteException](#)

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**See Also:**

[Plug-In Related Exceptions](#)

## ASCIIFixedParseException

Reasons for this exception include the following:

- Unexpected additional data at the end of input.
- Not enough characters corresponding to a fixed length field
- Missing mandatory field

```
<TransformException>
  <Type>TransformException</Type>
  <Message>Unexpected characters at the end of sequence.</Message>
  <ErrorCode>ASCFIX104</ErrorCode>
  <Severity>fatal</Severity>
  <Cascadable>true</Cascadable>
  <Internal-Code>ASCFIX104</Internal-Code>
  <Index>13</Index>
  <line>1</line>
  <column>14</column>
</TransformException>
```

**See Also:**

[ASCII Fixed Plug-In Exceptions](#)

## ASCIIFixedWriteException

Reasons for this exception include the following:

- Length of the value does not match the specified length
- Missing mandatory field/section.

```
<TransformException>
  <Type>TransformException</Type>
  <Message>The mandatory field 'Price' is missing.</Message>
  <ErrorCode>ASCFIX105</ErrorCode>
```

```
<Severity>fatal</Severity>
<Cascadable>true</Cascadable>
<FieldName>Price</FieldName>
<Internal-Code>ASCFIX105</Internal-Code>
<Error-Phase>Output</Error-Phase>
<Error-Record>
...
</Error-Record>
</TransformException>
```

**See Also:**

[ASCII Fixed Plug-In Exceptions](#)