



ADEPTIA

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## List of Error Record Generation Criterion for Various Schemas

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## Introduction:

This document provides a list of possible criteria that would cause an error record to be generated. The list is divided into the Schemas that would produce the error record.

## Error Record Criteria:

### 1. Advance Positional Schema :

- Data types does not match.
- Allow less fields is unchecked and source file has less fields than defined in schema.
- Allow more fields is unchecked and source file has more fields than schema.
- If data length is more than specified in the schema and “Data Truncation” is unchecked in advance properties. (when “Allow more field” is not checked).
- If the occurrence of record exceeds the maxoccurs in Hierarchy Definition.
- If the occurrence of record is less than the minoccurs in Hierarchy Definition.

### 2. Positional Schema :

1. Data type mismatch.
2. Allow less fields is unchecked and source file has less fields than schema.
3. Allow more fields is unchecked and source file has more fields than schema.
4. Source file contains data header and “Data header present” is unchecked in positional schema. Then the schema will receive the data header as a record and it might fail if it does not match with data type.

### 3. Advance Text :

- Field length in source file should not be more than the max size defined in the schema.
- If source field value is not valid against defined match pattern in schema.
- Record identifier value defined in schema does not exist in source records.
- If source file contains one parent and two child records and value of “maxoccur” property under “Hierarchy Definition” in schema is 1 for child record. In this case schema generates error records.

**NOTE :** For valid record there should be one child record under one parent record in source file.

### 4. Text:

- Data type does not match.
- Allow less fields is unchecked and source file has less fields than defined in the text schema.
- Source file contains field name and “Data header present” is unchecked then schema assumes header as data and it will fail if it cannot match it with the data type.
- Field Separator used in source file is different from what is defined in the schema. Then, the schema would receive complete record as a value of first field. In this case if data type defined in schema for the first field does not match the received value, then it would create an error record. If the data type is mismatched, the schema will generate error records.

#### 5. Excel :

- Data type does not match.
- Header in input file is not in the same order as in the schema or not the same as defined in schema and “ Dynamic Header Support” is unchecked.
- Source file contains field name and “Data header present” is unchecked then schema assumes header as data and it would fail if it does not match with data type.
- Wrong value “Column Start Position” may create error records due to data type mismatch.

#### 6. Database:

- Invalid XML characters in column name.
- Data type does not match that of inserted record in database.
- Primary key violation on target database table.
- Not Null violation (Cannot insert null value into NOT NULL type of column).

#### 7. Advance Database :

- Data truncation
- Data type mismatch
- Primary key violation
- Not Null violation (Cannot insert null value into NotNull fields)
- Foreign Key violation.