

# Swedish Masik Reader/Writer

The Masik reader and writer modules provide the FME with the ability to read and write Swedish Masik files. The Masik file format is an ASCII format used mainly in Sweden.

## Overview

Masik data is strictly two-dimensional (2D).

Masik data is stored in a data set that consists of a number of files. A logical Masik data set consists of any number of files in the same directory. There are no conventions concerning file extensions.

The Masik reader and writer support the storage of symbol (point), line, text, and polygon data. Each Masik file can contain either text, symbols, or linework (polygons and lines), and cannot mix these types.

## Masik Quick Facts

Format Type Identifier	MASIK
Reader/Writer	Both
Licensing Level	Base
Dependencies	None
Dataset Type	Directory
Feature Type	File base name
Typical File Extensions	N/A
Automated Translation Support	Yes
User-Defined Attributes	Yes
Coordinate System Support	No
Generic Color Support	No
Spatial Index	Never
Schema Required	Yes
Transaction Support	No
Geometry Type	MASIK_GEOMETRY

Geometry Support			
Geometry	Supported?	Geometry	Supported?
aggregate	no	point	yes
circles	no	polygon	yes
circular arc	no	raster	no
donut polygon	yes	solid	no
elliptical arc	no	surface	no
ellipses	no	text	yes

Geometry Support			
Geometry	Supported?	Geometry	Supported?
line	yes	z values	no
none	no		

## Reader Overview

The Masik reader first scans the directory it is given for Masik files that have been defined in the mapping file. The Masik reader then extracts features from the files one at a time, and passes them on to the rest of the FME for further processing.

### Reader Directives

The directives processed by the Masik reader are listed below. The suffixes shown are prefixed by the current <ReaderKeyword> in a mapping file. By default, the <ReaderKeyword> for the Masik reader is MASIK.

#### DATASET

**Required/Optional:** *Required*

The value for this directive is the directory containing the Masik files to be read. A typical mapping file fragment specifying an input Masik data set looks like:

```
MASIK_DATASET /usr/data/cityinfo
```

## Writer Overview

The Masik writer outputs each feature type into a separate file to comply with Masik file regulations. Each feature has the appropriate geometry associated with it – symbols also have an optional symbol type and vectors (lines and polygons) have an optional text attribute.

### Writer Directives

The directives that are processed by the Masik writer are listed below. The suffixes shown are prefixed by the current <WriterKeyword>\_ in a mapping file. By default, the <WriterKeyword> for the Masik writer is MASIK.

#### DATASET

**Required/Optional:** *Required*

The value for this keyword is the name of the created Masik directory. If a directory of this name exists, it is replaced by the new Masik data. A typical mapping file fragment specifying an output Masik dataset looks like:

```
MASIK_DATASET /tmp
```

#### DEF

**Required/Optional:** *Required*

To define files to write features to, the Masik writer uses `MASIK_DEF` lines. The feature type used in the `MASIK_DEF` line is used as the file name. The dot character `.` used to separate the basename from the extension must be replaced with an underscore. For example, to read or write using the file name `symbols.fyr`, the feature type on the `MASIK_DEF` line must be `symbols_fyr`. A typical mapping file fragment specifying an output Masik file in this type of example looks like:

```
MASIK_DEF symbols_fyr masik_symbol_type char(254)
```

## Feature Representation

In addition to the generic FME feature attributes that FME Workbench adds to all features (see *About Feature Attributes* on page 7), this format adds the format-specific attributes described in this section.

A special FME feature attribute called `MASIK_GEOMETRY` directs the Masik writer on how to interpret the feature. The correct values for `MASIK_GEOMETRY` are `masik_symbol`, `masik_text`, `masik_line`, and `masik_polygon`. Any further parameters specified to each of these four types are described in the following subsections.

### Symbols

**masik\_type:** `masik_symbol`

The Masik writer outputs a symbol object containing the point as specified in the input file. Also, the Masik reader and writer associate the symbol type for the object with a specific attribute.

Attribute Name	Contents
<code>masik_symbol_type</code>	A text attribute that specifies the symbol type for the feature. <b>Required:</b> No <b>Default:</b> NULL

### Text

**masik\_type:** `masik_text`

The Masik writer outputs a text object containing the point as specified in the input file. The Masik reader and writer also associate the text string for the object with a specific attribute.

Attribute Name	Contents
<code>masik_text_string</code>	A text attribute that specifies a the text string for the feature. <b>Required:</b> No <b>Default:</b> NULL

## Lines

**masik\_type:** masak\_line

The Masik writer outputs a line object containing the points as specified in the input file. The Masik reader and writer also associate the optional attribute for the object with a specific attribute called `namn`.

---

<b>Attribute Name</b>	<b>Contents</b>
<code>namn</code>	A text attribute that specifies value of the optional attribute for the feature. <b>Required:</b> No <b>Default:</b> NULL

---

## Polygons

**masik\_type:** masak\_polygon

The Masik writer outputs a polygon object containing the points as specified in the input file. The Masik reader and writer also associate the optional attribute for the object with a specific attribute called `namn`.

---

<b>Attribute Name</b>	<b>Contents</b>
<code>namn</code>	A text attribute that specifies value of the optional attribute for the feature. <b>Required:</b> No <b>Default:</b> NULL

---