Shapefile Structure

The shapefile (for its location see Custom Shapes) is a very basic xml file. Essentially it looks like this (the file shown is abbreviated and not operational in Titan):

```
<?xml version="1.0" encoding="UTF-8"?>
<ShapeFile>
  <History Date="05-11-2017" Author="Sebastian Beutel" Comments="Created
simplified version for wiki as example."/>
  <Pattern ID="Sine">
    <Function ID="1" Value="0"/>
    ...
    <Function ID="17" Value="1000"/>
    ....
    <Function ID="33" Value="0"/>
    <Function ID="34" Value="-98"/>
    ....
    <Function ID="64" Value="-98"/>
  </Pattern>
  <Pattern ID="Cosine">
    ...
  </Pattern>
  <Shape ID="1" Name="Circle" Group="P">
    <Function ChannelID="Pan" PatternID="Sine" Amplitude="200" Phase="270"
Speed="15"/>
    <Function ChannelID="Tilt" PatternID="Sine" Amplitude="200" Phase="0"
Speed="15"/>
  </Shape>
  <Shape ID="2" Name="Spiral" Group="P">
    <Function ChannelID="Pan" PatternID="Spiral" Amplitude="200" Phase="0"
Speed="3"/>
    <Function ChannelID="Tilt" PatternID="Spiral" Amplitude="200" Phase="11"
Speed="3"/>
  </Shape>
  ...
  <Shape ID="159" Name="Saturation Saw" Group="C">
    <Function ChannelID="Saturation" PatternID="Saw" Amplitude="1000"
Phase="0" Speed="29"/>
  </Shape>
</ShapeFile>
```

The general structure of an XML file is explained in more detail in the macros section.

- there is the XML declaration `<?xml version="1.0" encoding="UTF-8"?>`
- there is the root element `<ShapeFile>` which encloses the entire contents and is finally closed with `</ShapeFile>`
- there is a number of History entries which simply show the development of this file: `<History Date="05-11-2017" Author="Sebastian Beutel" Comments="Created simplified version for wiki as example."/>`

- there is a number of <Pattern …> elements which define the modulation curve, see Pattern Definitions
- there is a number of <Shape …> elements which define the shapes available in Titan, see Shape Definitions

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