NeptuneLabs
FSI Viewer and FSI Showcase

- Standalone Version -

Information for Web designers

FSI Viewer
FSI Showcase

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NeptuneLabs FSI Viewer and FSI Showcase Operating Instructions

In General

‚Flash based Scaleable Image Viewer', (FSI Viewer) developed by NeptuneLabs enables approach to and display of the files on an image server for zoomable graphics.

FSI Viewer and FSI Showcase (based on FSI Viewer) are both able to display normal 2D images as well as multidimensional image objects. By using specific image objects, a 3D graphic etc. can be created.

You receive FSI Viewer and FSI Showcase for your Internet presentation from your ZoomPartner or Zoomserver distributor. In order to run your own FSI product you need a valid FSI licence and the corresponding licence/contract for a zoom image server. If you need a ZoomCache in addition, e.g. for the connection to Flash 5 support, Watermark Functions or Rendering Server, you require a valid ZoomCache access ID.

Before you beginn running FSI Viewer make sure you have all the necessary information at hand.

For the configuration of further FSI or support products, please refer to the respective manuals or online-documentation.

Compatibility

The FSI products covered in this manual can at present only be securely run by iSeeMedia Zoom Image Server from version 4 and TrueSpectra version 4.1.1. For newer versions it is possible that newer FSI Viewer and FSI Showcase versions will be necessary.
FSI Viewer requires a Flash™ Plugin version 5 or newer for the display in browsers. If you are using Flash 5, a ZoomCache is required to output the zoom images.

To run FSI Showcase, Flash™ version 6 or newer is required.

FSI Viewer has been successfully tested with the following software versions:

iSeeMedia - ZoomImageServer 4.00
iSeeMedia - ZoomImageServer 4.01
iSeeMedia - ZoomImageServer 4.02
iSeeMedia - ZoomImageServer 4.5 (Build 1427 und 1428)
TrueSpectra – Image Server 4.1.1 Service Patch 3
Flash-Plugin 5.0.42.0 to 7.0.0.250

The presentation can marginally vary depending on the operating system. The software has been optimized for Microsoft® Windows® . If problems arise please check the versions mentioned above and enquire about newer versions of the FSI products.

Navigation

The FSI Viewer is navigated by using the menu bar (above) and the mouse directly on the image. For example, you can directly select a segment of the image that you want to enlarge. The mouse functions are determined by the 4 buttons on the menu bar (magnify, move etc). The example on the left shows the button "magnify".

The smally survey window (above left) displays the position of the current selected segment.

In versions other than the standard Standalone version these buttons may vary in form, colour and even in the general function. For adaptation please refer to the corresponding documentation.

Menu bar

Main functions

	Navigation display Displays or hides extended navigation
	Back to original view. Undoes scaling, rotating, moving etc back to original view. (identical with space bar)
	Zoom in
	Zoom out

Mouse functions

	Mouse- Zoom in Choose this function to enlarge segments with the mouse. Click on the image and drag the frame over the desired segment. Alternatively you can click on the image, without marking the segment. The current image segment will then be enlarged in steps. To zoom out in steps, hold down the CTRL-key and click on the image.
	Mouse - move Choose this functions to move the image with the mouse. Click on the image and drag in the desired direction. To return to the original view, hold down the CTRL-key and click on the image.
	Mouse - turn Choose this function to turn the image around the z-axis. Click on the image and drag in whatever direction you want to turn the object (to the right or the left) To undo turn, hold down the CTRL-key and click on the image.
	Mouse - rotate (only for 3D presentations) Choose this function to rotate the object around the y-axis. Click on the image and drag to the left or to the right. Move the mouse up or down to rotate the object around the x-axis (when possible). To undo rotation hold down the CTRL–key and click on the image.

View

	Hide/display menu Displays or hides the operating functions of the viewer
	Information Displays information about the viewer and refers to a configurable help page (see HelpURL). The logo, and the design of the whole viewer can be customized to your wishes by NeptuneLabs.

Survey window

In the survey window you can see a miniature presentation of the whole image. The segment which is currently viewed is framed in red. In the survey window you can change the current segment either by dragging the frame, or by clicking on the desired area of the image.

Extended Navigation

You can display or hid the extended navigation by clicking on the button in the menu bar.

The extended navigation contains more specific buttons for moving and rotating in addition to those in the menu bar.

You can move the extended navigation by clicking on and dragging the blue section.

Keyboard

FSI Viewer and FSI Showcase can also be controlled with the keyboard. The list below shows which keys have what function. As most function keys are in the Num field, it has to be activated before use.

Key	Function
Num 5, spacebar	Back to original view
Num 4, left arrow	Move to the left
Num 6, right arrow	Move to the right
Num 8, up arrow	Move up
Num 2, down arrow	Move down
Num 1	Turn around the z-axis to the left
Num 3	Turn around the z-axis to the right
Num 7	Rotate around the y-axis to the left (3D only)
Num 9	Rotate around the y-axis to the right (3D only)
Num /	Rotate around the x-axis upwards (3D only), or for previous view
Num *	Rotate around the x-axis downwards (3D only), or for previous view
Num 0	Hide/display menu
D	If you have activated the Debug Mode, you can hide or display the Debug window with this key.
I	When in Debug Mode you receive information about the current image segment, and further status information with this key. (e.g. for InitalView).

NeptuneLabs FSI Viewer
Installation

For correct installation it is necessary that when ordering you name the URL under which FSI Viewer will be stored on your webserver. Due to the security limitations of the Flash plugin the exact address of the viewer components is required.

It is recommended to create a sub-index for the viewer in the root–index of your webserver. E.g. in index "/fsi".

This enables the URL of the viewer to remain very short, regardless in which path the respective website is found.

e.g.: <PARAM NAME="movie" VALUE="/fsi/fsi.swf?cfg=image1>

Example of an index structure for the Domain „http://www.foobar.com":

Example – index structure

```
http://www.foobar.com/fsi
_default.fsi
fsi.swf
fsi_main.nlm
fsi_skin.swf
zoom module.nlm

http://www.foobar.com/fsi/config
image1.fsi
image2.fsi
...

http://www.foobar.com/fsi/samples
test.html
testimage.fsi
...
```

For multiple applications of FSI Viewer or FSI Showcase a subdomain can be useful to address the FSI files.

Example - Subdomain

```
http://fsi.foobar.com/
```

Installation steps

I. Copy the FSI Viewer or FSI Showcase files with a FTP programm into the index on your webserver. Please note that the files have to be transmitted in binary mode.

Important:
For security reasons FSI Viewer and FSI Showcase are always restricted to one specific end URL and will only function there.

II. Create or process the FSI files with a text editor and mofify the _default.fsi file to your needs.

III. Add a teh HTML source for a Flash Movie to your website and enter as a film URL the path to the file "fsi.swf" or "fsi_showcase.swf" with the desired parameters as a query.

```
<PARAM NAME="movie" VALUE="fsi.swf?cfg=fsitest.fsi">
```

Use the files in the "samples" folder of the installation archive as a guide line.

For further information please refer to the following pages.

NeptuneLabs
HTML-Source text

The NeptuneLabs FSI Viewer is integrated into a HTML page through an <object> -Tag like a Flash-film. A Flash plugin version 5 or newer is necessary.

Object Tag

To display a Flash-film an Object Tag has to be specified when using Internet Explorer 5 or newer. Older browsers or browsers without ActiveX support use the obsolete Embed Element instead.

Structure (variable data are in bold and square brackets):

Example - HTML integration without considering old browsers.

```
<OBJECT classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.c
ab#version=5,0,42,0" width="[width]" height="[Height]">
<PARAM NAME="movie" VALUE="[URL and Parameter]">
<PARAM NAME="bgcolor" VALUE="[backgroung color]">
<PARAM NAME="menu" VALUE="false">
</OBJECT>
```

Embed Tag

For browsers (e.g. Netscape 4.x), that don't support<object>-Tag, an additional <embed>-Tag with the suitable parameters is required.

Example - HTML integrations for current and old browsers

```
<OBJECT classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.c
ab#version=5,0,42,0" width="[width]" height="[height]">
<PARAM NAME="movie" VALUE="[URL and Parameter]">
<PARAM NAME="bgcolor" VALUE="[background color]">
<PARAM NAME="menu" VALUE="false">
<EMBED TYPE="application/x-shockwave-flash"
PLUGINSPAGE="http://www.macromedia.com/shockwave/download/index.cgi?P1_Prod
_Version=ShockwaveFlash" SRC="[URL and Parameter]" WIDTH="[width]"
HEIGHT="[height]" BGCOLOR="[background color]" MENU="false"></EMBED>
</OBJECT>
```

Explaining the variable parameters

[width]	Width of the viewer in pixel or percent (flash 6 or newer)
[height]	Height of the viewer in pixel or percent (flash 6 or newer)
[background color]	Background colour, hexadecimal (e.g.#FFFFFF for white)
[URL and parameter]	The address to the FSI Viewers and the parameter as a query. For information about these parameters please see section " Parameters".

For further possible parameters please refer to your Flash documentation or renouned HTML design websites.

NeptuneLabs FSI Viewer
FSI Parameters

The parameters can be transfered by using XML- configuration files and/or with a query attached to the URL.

Parameters within the query are specified in the following form :

Parameter1=value1&Parameter2=value2...

Symbols that are not URL- compatible such as "/" and "&" within the parameter have to be URL-coded. In the simplest case, state only the relative path to the configuration file within the <object>-Tag.

Example – opening FSI Viewer in an object Tag

```
<PARAM NAME="movie" VALUE="fsi.swf?cfg=[relative path to FSI-files]">
```

The configuration file "_default.fsi" -which has to be in the same folder as the viewer- will be principally evaluated. You can store image specific parameters in individual .fsi files. Parameters within these files overwrite the "_default.fsi" parameters. Parameters within the query overwrite the .fsi file parameters.

Configuration File Hierarchy:

I. Query
II. Bild.fsi
III. _default.fsi

It is recommended to store parameters which are the same for a large number of images in the file _default.fsi. Subsequent changes can then be made more easily. This is specifically usefull for the image server address (see parameter "FPXBase") and the path to the image specific FSI files (see parameter "FSIBase").
If you want to display an image with minimal variation in configuration, it is recommended that for both views the same FSI file is used, and the varying parameters are transferred by query. E.g:

Example! – parameter transfer to the FSI Viewer

```
View 1:
...
<PARAM NAME="movie" VALUE="fsi.swf?cfg=flower">
...

View 2:
...
<PARAM NAME="movie" VALUE="fsi.swf?cfg=flower&NoNav=1">
...
```

File Cache
Please note that the configuration files and the viewer files are cached by the browser, so that if changes in the files occur the browser cache must be deleted.
Parameters that are transferred within a query and image specific FSI files are an exception if the Debug mode is activated (see parameter "Debug").

Format of the configuration files (*.fsi)

The configuration files are created in XML- format and can be edited with any text editor.

The basic structure with the 3 main groups is:

```
<fsi_parameter>

     <Viewer>
     </Viewer>

     <FPX>
     </FPX>

     <Options>
     </Options>

</fsi_parameter>
```

The parameters within the group are in the given format:

<PARAMETER value="VALUE" />

Example – specifying the FPX image; relative statement

```
<FPX>
     <Src value="image.fpx" />
</FPX>
```

Within the *.fsi files group prefixes such as "Viewer" and "FPX" are not required.
Instead of e.g. "FPXWidth" please use only the <Width value="…" />. in the<FPX> Gruppe.

Please note that the values must be written in quotation marks.
The following value types are possible:

Type	Example
Number	"90"
String	"ZoomIn"
URL	"http://www.neptunelabs.com/"
BOOL	Either "0" / "1" or "true" / "false"

Like in HTML-Format, you can comment on or deactivate sections of the FSI files by using the comment syntax.

Example - comments

```
<FPX>
     <!-- this is a comment -->
     <Src value="image.fpx" />

     <!–The following section will be ignored-->
     <!--
     <Src value="image.fpx" />
     -->
</FPX>
```

Necessary parameters

The following parameters are essential and must be specified.

CFG	
Description:	Relative path to configuration file
Syntax:	fsi.swf?cfg=[FSI_Name] (without Suffix)
Default:	---
Context:	Object Tag, Embed Tag

This states the relative path to the .fsi-configurations file.
Only useful within the query.
The ending ".fsi" does not have to be entered. (see also FSIBase)

Example – opening FSI Viewer by stating an FSI file

```
<PARAM NAME=movie VALUE="fsi.swf?cfg=foobar">
```

In this case the FSI Viewer first searches for the _default.fsi file in the installation folder where the file fsi.swf is.

The essential parameter from the _default.fsi file is then used as the path specification in order to search in the correct index for a FSI file with the name foobar.fsi.

Server Type	[FPXServerType]
Description:	Image server type
Syntax:	String – ZIS | TrueSpectra | TrueSpectra Bridge
Default:	ZIS
Context:	<FPX>

For the image server technology Zoom Image Server from iSeeMedia please enter the value as "ZIS". For the Image Server from TrueSpectra please enter the value "TrueSpectra" if it is a stand alone server and "TrueSpectra Bridge" if you are using a Bridge API.

Src	[FPXSrc]
Description:	URL of the FPX image to be displayed
Syntax:	URL
Default:	---
Context:	<FPX>

Specify either a part URL or a complete URL, or the complete URL of the image to be displayed on the image server (see also FPXBase).

With TrueSpectra servers it is not necessary to enter an image in FPX format by using these parameters. For more detailed information about the supported formats please refer to the TrueSpectra documentation.

Example 1 – partial (relative) Addressing

```
<FPX>
        <Src value="project/foobar.fpx" />
</FPX>
```

Example 2 - absolute Addressing

```
<FPX>
        <Src value="http://myzis.com/fif=project/foobar.fpx" />
</FPX>
```

Width und Height	**[FPXWidth and FPXHeight]**
Description:	FPX-image dimensions
Syntax:	Number in pixels
Default:	---
Context:	<FPX>

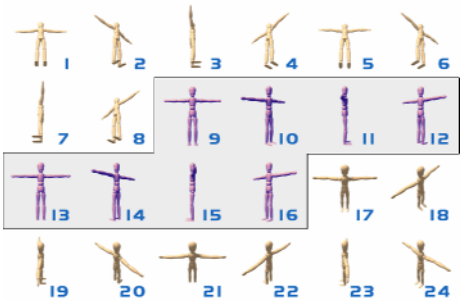
Necessary parameters that specify in pixels the width and height of the FPX.

Example – width and height specifications of an FPX image

```
<FPX>
        ...
        <Width  value="3330" />
        <Height value="4660" />
        ...
</FPX>
```

TilesX and TilesY	**[FPXTilesX and FPXTilesY]**	**(3D)**
Description:	Specification of individual images from 3D FPX images	
Syntax:	Number	
Default:	1	
Context:	<FPX>	

Number of individual images in x- and y- directions
Only necessary for 3D views or multiple scenes.



Even in an 'asymmetrical' scene order - as in the example of the left -the number of tiles would be in the x direction 6 and in the y direction 4.

With the parameter SceneSet the 3 scenes can then be defined.
The order can be freely determined.

Example – Definition of the 3 scenes

```
<FPX>
        ...
        <TilesX value="6" />
        <TilesY value="4" />
        <SceneSets value="1-8,9-16,17-24" />
        ...
</FPX>
```

FSIBase	
Description:	Path to the FSI files
Syntax:	Relative path specification
Default:	---
Context:	<Options> in _default.fsi

Enter the relative path from FSI Viewer to the image specific FSI files here. When this parameter is specified the path is added to the parameter CFG.

Example 1 - Definition of the FSIBase within the _default.fsi file

```
<Options>
        ...
        <FSIBase value="config/" />
        ...
</Options>
```

Example 2 – specifying the FSI filesDatei with the parameter CFG

```
<OBJECT ...>
     ...
     <PARAM NAME="movie"  VALUE="/fsi/fsi.swf?CFG=cars/image1">
     ...
</OBJECT>
```

The parameter CFG is expanded with the FSIBase to:
/fsi/config/cars/image1.fsi

FPXBase	
Description:	ZoomServer URL
Syntax:	URL
Default:	---
Context:	<Options> in _default.fsi

Domain and possible path to ZoomServer.
If the FPXSrc parameter is entered without the Domain (http://...), FPXbase is added to the path.

Example - FPXBase application

```
Definition of the FPXBase within the file _default.fsi:
<Options>
        ...
        <FPXBase value="http://myzis.com/fif=project/" />
        ...
</Options>

Specification of the FPXSrc within the FSI files:

1) The FPXBase is used for relative addressing:
<FPX>
        ...
        <SRC value="image.fpx" />
        ...
</FPX>
states complete address:
http://myzis.com/fif=project/image.fpx

2) FPXBase is not used for complete addressing:
<FPX>
        ...
        <SRC value="http://anotherzis.com/fif=project/image.fpx" />
        ...
</FPX>
```

Optional parameters

Width and Height	[ViewerWidth and ViewerHeight]
Description:	Size of the Flash film
Syntax:	Number in pixesl or ‚auto'
Default:	Auto
Context:	<Viewer>

Width and height of the viewer in pixels
These specifications are only necessary for Flash 5 plugins and must match with the specifications in the <object> or <embed> Tag. If you use Flash 5, the application of the NeptuneLabs ZoomCaches is necessary.
For Flash MX or higher you can either leave out the parameters or enter "auto".

Debug	
Description:	Activate debug mode
Syntax:	Bool
Default:	False
Context:	<Options>

In debug mode a debug window with status information is displayed.
You can open or close this window with the "D" key.
After the debug mode is activated, caching of the subsequently loaded FSI files by the browser, is prevented. This allows you to easily test changes to your FSI files without having to delete the browser cache each time. The parameters of the _default.fsi are always cached regardless.

Example – display in debug window

```
FSI Viewer
Build 230103
Flash Version
WIN 6,0,50,0
Reading default FSI-File http://www.foobar.com/_default.fsi...ok
Scanning query...
Reading FSI-File http://www.foobar.com/fsi/image1.fsi?nocache=8115972...ok
Using FpxBase
Viewer Size: 339x340
Loading Components:
Core loaded.
Skin loaded.
FSI Skin Template 1.1
2 SceneSets:
Set 1: 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32
Set 2: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
Opening FPX: http://www.zoomserver.com/fif=/3d object.fpx&obj=iip,1.0
--- INFO ---
```

```
Current View:
1, 1, 0, 0, 1, 1, 0
Total Traffic: 112323 Bytes
Requests:  64
Time: 7 sec
```

MenuX and MenuY	
Description:	Additional navigation
Syntax:	Number in pixels
Default:	Navigation elements are hidden
Context:	<Options>

X-position and Y-position of the extended navigation element in pixels.
If these values are not entered, the extended navigation element is immediatley hidden.

NoNav	
Description:	Deactivate survey window
Syntax:	Bool
Default:	False
Context:	<Options>

If these values are set to true or 1, the survey window with the miniature FPX image won't be displayed. This parameter causes the Thumbnail not to function as the Navigator in the showcase.

MenuAlign	
Description:	Arrangement of the operating buttons
Syntax:	String
Default:	TL
Context:	<Options>

Possible values:

TL	(above left)
TR	(above right)
BL	(bottom left)
BR	(bottom right)

HideUI	
Description:	Hide userinterface
Syntax:	Bool
Default:	False
Context:	<Options>

After loading FSI Viewer the operating buttons are not displayed. A menu opener button is displayed instead which shows how the menu can be displayed. This option is especially usefull when an image is meant to look normal, or when there are many FSI Viewers to be seen on one website.

HelpURL	
Description:	URL of the help page
Syntax:	String
Default:	http://www.neptunelabs.com/?menu=fsi_help
Context:	<Options>
Version:	1.3.0 or higher

If you want to create an individual help page for your FSI Viewer or FSI Showcase enter the complete URL to this page using this parameters.

HelpURLTarget	
Description:	Target der Hilfeseiten
Syntax:	String
Default:	_blank
Context:	<Options>
Version:	1.3.0 or higher

Using this parameter you can determine the Target-name of the browser window if a user should open the help page. "_blank" is preset which causes the opening of a new browser window.

InitialView	
Description:	Initial segment
Syntax:	SceneSet, Scene [left ,top ,right, bottom, rotation]
Default:	1,1,0,0,1,1,0
Context:	<Options>

Sets the image segment that is initially displayed.
The first two parameters are necessary as they specify the SceneSet and the Scene. For 2D image both these values are always 1.

The other parameters are optional and specify the segment and the rotation around the z-axis.

In Debug Mode you can display the text from the current view in the Debug window by using the "i" key.

Example:

```
<Options>
        ...
        <InitialView value="1,5,0,0,0.25,0.25,90" />
        ...
</Options>
```

The example displays the above left quarter of the 5th scene in the 1st SceneSet rotated 90° to the right.

InitialAction	
Description:	Action after the initialization
Syntax:	String
Default:	---
Context:	<Options>

Specifies the initial actions.
The action is repeated until the user presses a button or key. During the action there is no subsequent loading of details.

Possible values:

NextScene	(rotate around the y-axis to the right, 3D only)
PreviousScene	(rotate around the y-axis to the left, 3D only)
NextSceneSet	(rotate around the x-axis to the right, 3D only)
PreviousSceneSet	(rotate around the x-axis to the left, 3D only)
RotateRight	(rotate around the z-axis to the right, 3D only)
RotateLeft	(rotate around the z-axis to the left, 3D only)
ZoomIn	(zoom in)
ZoomOut	(zoom out)

InitialActionDelay	
Description:	Start-action speed
Syntax:	Number
Default:	3
Context:	<Options>

Specifies the speed of the InitialAction.
0 highest speed
>0 slower

InitialMouseMode	
Description:	Mouse mode after starting
Syntax:	Number
Default:	0
Context:	<Options>

Specifies the mouse mode after the initialization of FSI Viewers.

Possible values:
0 (magnifying glass)
1 (move)
2 (rotate in scenes)
3 (tip)

NoZoomLimit	
Description:	No Zoom limit
Syntax:	Bool
Default:	False
Context:	<Options>

It is possible to magnify beyond the actual resolution of the FPX. If you zoom beyond the available resolution the viewer interpoles the presentation and the image may become less clear. A loss of focus can occur.

Animation	
Description:	Animation quality
Syntax:	String
Default:	MEDIUM
Context:	<Options>

Specifies the quality during the animation (transition).
The lower the quality, the smoother the animation.

Possible values:

NONE	(no animation)
LOW	(low quality, hight speed)
MEDIUM	(good quality and speed)
HIGH	(very good quality, slower speed with old computers)
BEST	(excellent quality, slower speed with old computers)

AnimationSpeed	
Description:	Animation speed
Syntax:	Number
Default:	50
Context:	<Options>

Specifies the speed of the zoom and scene transitions.

Possible values between 1 and 100:

1	(very slow)
100	(very fast)

no animation: see parameter „Animation"

Effects	
Description:	Image effects
Syntax:	String
Default:	
Context:	<Options>
Version:	From 1.3.0

This is a very powerfull command for the manipulation of the image delivery of an Image Server. By using this parameter you can achive various effects - depending on the capabilities of the Image Server.

The parameter can contain different effects. Every effect is seperated by an & symbol like in a URL transition.

One of the most important effects is "qlt". With this command you direct the JPEG compression of the server. If no effect is specified, the default settings of the server are valid.

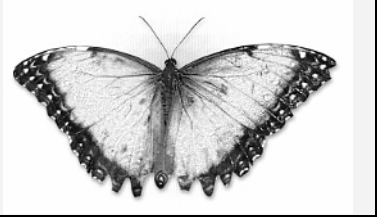
Possible values between 1 and 100: (practical values are between 50 and max 90)
1 (extremly low quality, heavily compressed image)
100 (extremly high quality, uncompressed image)

Example – qlt=10

Example – qlt=90

Other commands change, for example, the color saturation, tone or contrast. For a more detailed description of the possible commands please refer to the Image Server documents.

Example – saturation=0



Example – hue=180&cnt=1.4

ZoomCache	
Description:	URL of the Zoom Caches
Syntax:	URL
Default:	
Context:	<Options>

If you use a NeptuneLabs ZoomCache, please specify the URL of the ZoomCache server here. If you haven't installed this yourself, you can receive this URL, and a ZoomCache ID, from your Zoom partner or ZoomServer consultant.

ZoomCacheID	
Description:	ID for use of the ZoomCaches
Syntax:	String
Default:	
Context:	<Options>

When using the NeptuneLabs ZoomCaches enter the name of the access profile for your images here. You may have several profiles i.e. if you use watermarking or different Image Servers.

ZoomCache5Only	
Description:	Only use ZoomCache with Flash 5.
Syntax:	Bool
Default:	False
Context:	<Options>

Use ZoomCache only for Flash-Plugins of Version 5.
When using watermarking or save functions this parameter must have the value 0 or false.

SceneSets	**(3D)**
Description:	Mouse mode after starting
Syntax:	String
Default:	1 – nTiles
Context:	<Options>

With this parameter you can define the SceneSet for images with several scenes (see TilesX, TilesY). This sets the order of the scenes to be displayed.

A set with all tiles will be created if no sets are defined.
In the viewer the scenes are selected with the mouse in the x direction and the SceneSets in the y direction.
The individual sets are seperated with ";" (semicolon).
Scenes within the sets are seperated with "," (comma) and specify the 1-based index of the image from left to right, up to down to (TilesX x TilesY).

Instead of individual scenes you can also specify scenefields, e.g. "5-10".
If you leave out the start or the finish of a field, 1 or the last scene number will be assumed.
If you enter the field with "->" the field from the first number to the last number plus the first scene up to the second number will be assumed.

Example - Definition of multiple scenes

```
<Options>
        ...
        <SceneSets value="2,3,5-10;10-1;5-;8->3" />
        ...
</Options>
```

The example defines 4 scenes in total. Assumption: The FPX image is created from 10 individual images,5 in a row, two rows.

This leads to the following image order for the individual scenes:

Set 1:
Scenes: 2,3,5,6,7,8,9,10
Set 2:
Scenes: 10,9,8,7,6,5,4,3,2,1
Set 3:
Scenes: 5,6,7,8,9,10
Set 4:
Scenes: 8,9,10,1,2,3

If the Debug mode is activated the SceneSets are displayed in the Debugfenster during the initialization.

See also TilesX und TilesY.

NoSceneAnimation	**(3D)**
Description:	No SceneSet animationen
Syntax:	Bool
Default:	False
Context:	<Options>

If this option is activated the transition between scenes and SceneSets is not animated.

NoSetLoop	**(3D)**
Description:	No 360° rotation around the y-axis
Syntax:	Bool
Default:	False
Context:	<Options>

The first and the last SceneSet will be considered the end points.
(no complete rotation, e.g. for rotation with less than 360°)

NoSceneLoop	**(3D)**
Description:	No 360° rotation around the x-axis
Syntax:	Bool
Default:	False
Context:	<Options>

The first and last scene in the sets will be considered the end points. (no complete rotation, e.g. for rotation with less than 360°)

ScenePreload	**(3D)**
Description:	Load scenesin higher resolution
Syntax:	Bool
Default:	False
Context:	<Options>

If this parameter is activated all scenes will be loaded at the start in higher resolution, otherwise preview images will be loaded with lower resolution. This parameter can majorly influence loading times and traffic volume.

NoImageBlend	
Description:	Subsequently loaded images are not blended.
Syntax:	Bool
Default:	False
Context:	<Options>
Version:	1.2.0 or higher

If this parameter is activated, subsequently loaded image sections are displayed abruptly and not blended in.

Obsolete parameters

The following parameters are not available anymore:

ImageQuality since FSI Viewer 1.3.0, see current Effects

3D views and 2D images with multiple views

For FPX-images with multiple individual images the number of the horizontally and vertically ordered individual images of the FPX must be specified. (see TilesX und TilesY).
Every individual image (Tile) will be called a scene in the following text. Multiple scenes will be referred to as SceneSets which can contain unlimited scene sequences.

One can swap between the individual scenes of a set in the x direction by using keys "7" or "9" in the num block or using the mouse mode "rotate".

One can swap between the individual SceneSets in the y direction by using keys "/" and "*" in the num block or using the mouse mode rotate.

If the parameters are entered for a FPX but no SceneSet is defined, a Sceneset will be created with all the scenes from left to right, top to bottom.

Details about the definition of the SceneSet can be found in section "**NeptuneLabs FSI Viewer – Parameter**".

If you are not sure how many images in your FPX are defined in the x and y direction, firstly enter the value 1 for TilesX and TilesY. In the viewer you will then find an overview of your whole FPX image structure.

FSI Showcase

FSI Showcase is based on FSI Viewer technology.
All FSI Viewer options are valid for FSI Showcase.

In place of the _default.fsi file, which contains the general settings for the Viewer, there is a showcase.fsi file, which contains the general settings for all the images and in addition the configuration parameter for the Showcase. Furthermore the showcase.fsi file contains the list of images that are going to be displayed in the showcase.

The integration of the Showcase into the HTML-source text occurs the same as for the FSI-Viewer, the only difference is that the file "fsi_showcase.swf" is integrated and that the parameter "cfg" refers to the Showcase configuration file.

Example - HTML integration of the showcase (without Embed)

```
<OBJECT classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.c
ab#version=6,0,0,0" width="[width]" height="[height]">
<PARAM NAME="movie" VALUE="[URL and parameter]">
<PARAM NAME="bgcolor" VALUE="[background color]">
<PARAM NAME="menu" VALUE="false">
</OBJECT>
```

Explaining the variable parameters

[width]	Widthof the showcase in pixels or percent
[Height]	Height of the showcase in pixels or percent
[Hintergrundfarbe]	background color, hexadecimal (e.g. #FFFFFF for white)
[URL and parameter]	The address to FSI Showcase and the parameter as a query. For information about these parameter please refer to the section "Showcase Parameter".

In contrast to the FSI Viewer, there is no Flash 5 support for the FSI Showcase possible when creating this document. However, the use of a ZoomCache can in this case be very useful.

Configuration file

The configuration file is created in XML-format and can be edited by any text editor.
The basic structure with the 2 main groups is:

```
<fsi parameter>
     <Options>
     <!—Configuration parameter -->
     ...
     </Options>

     <Images>
     <!—List of the image to be displayed -->
     ...
     </Images>
</fsi_parameter>
```

Images to be displayed

The <images> section contains the specifications of the images to be displayed.

For every image the path to the image configuration file (as for the FSI Viewer) and an optional short title are entered.

The order of the images within the Thumbbar is the same as the order within the <image> section.

Corresponding to FSI Viewer the parameter "FSIBase" is valid, which can be entered within the Showcase configuration file.

In this case the entered file paths are automatically extended by the value from the "FSIBase".The file path can be entered with or without the ending ".fsi".

In order to choose the images to be displayed at the start, add the parameter selected="true" within the <image>-Tag. This parameter has no effect when the InitialImage parameter is activated.

Example – specification of FSI Dateien

```
<fsi parameter>
     <Options>
     ...
     </Options>

     <Images>
          <image file="fsi/bild1.fsi" label="Bild Nr.1" />
          <image file="fsi/bild2.fsi" label="Bild Nr.2" selected="true" />
     </Images>
</fsi_parameter>
```

Showcase parameters

Following are the parameters that are exclusive to the Showcase.
The Showcase parameters are entered within the <options> section of the Showcase configuration file.

Please note that the values must be entered in quotation marks. The following types can be entered.

Type	Example
Number	"90"
String	"ZoomIn"
URL	"http://www.neptunelabs.com/"
BOOL	either "0" / "1" or "true" / "false"
HexColor	„FF00FF"

MenuAlign	
Description:	Alignment of the menu bar
Syntax:	String
Default:	TL
Context:	<Options>

Specifies the alignment of the navigation and menu bar in the Showcase.

Possible values:
TL (top left)
TR (top right)
BL (bottom left)
BR (bottom right)

ThumbWidth & ThumbHeight	
Description:	Width and height of the Thumbnail
Syntax:	Number in pixelsl
Default:	64
Context:	<Options>

Possible values are between **32** and **128** pixels.

Depending on the setting, this value changes the size of the Thumbnails. This specification is independent of the length/width ratio of the image. The image and the Thumbnail ratio should correspond if borderless presentations are desired.

Example – specification of the Thumbnail size; original image 2000x1000 pixels

```
<Options>
     <ThumbWidth value="100" />
     <ThumbHeight value="50" />
</Options>
```

InitialImage	
Description:	Index of image chosen at the start.
Syntax:	Number
Default:	1
Context:	<Options>

Possible values are the index of the image or "none" if no image is to be activated at the start. This parameter has priority over an activated selected="true" parameter within the <images> section.
In connection with the parameter InitalView, very specific image segments can be displayed, even directly after the loading process of the Showcase.

ThumbBarPosition	
Description:	Position of the Thumbnail
Syntax:	String
Default:	L
Context:	<Options>

Specifies the position of the Thumbnail bar within the Showcase. The bar is always situated on the outside margin and takes up either the whole height or the whole width of the presentation.

Possible values:

L	(Left)
R	(right)
T	(top)
B	(bottom)

ThumbBarSize	
Description:	Width and height of the Thumbnail area
Syntax:	String or number in pixels or percent
Default:	1 row
Context:	<Options>

Specifies the width/height of the thumbnail area at the start.
The value can be specified in three ways:

- rows (in Thumbnails, dependant on Thumbnail width/ -height)
- number (in pixel)
- % (in percent of the Showcase width)

Example 1 - Thumbbar with 2 rows or columns on Thumbnails

```
<Options>
     <ThumbBarSize value="2 rows" />
</Options>
```

Example 2 - Thumbbar with 25% of the total size

```
<Options>
     <ThumbBarSize value="25%" />
</Options>
```

If 100% is entered, all Thumbnails that fit will be displayed on the surface.

ThumbBarColor	
Description:	Background color of the Thumbnail area
Syntax:	HexColor
Default:	DDDDDD
Context:	<Options>

Specifies the background colour of the Thumbnail.

ThumbBorderWidth	
Description:	Width of the thumbnail border
Syntax:	Number in pixels or 'none'
Default:	3
Context:	<Options>

Determines the border thickness around every thumbnail. Enter the value 'none' if no border is desired.

ThumbBorderColor	
Description:	Color of the 3D thumbnail border
Syntax:	HexColor
Default:	Same color as "ThumbBarColor"
Context:	<Options>

This specifies the color of the 3D border around the thumbnail. If no parameter is entered then the color of the ThumbBarColor will be used.

ThumbBorderFlat	
Description:	Turns on the 3D border
Syntax:	Bool
Default:	False
Context:	<Options>

If this parameter is set to "True", then the border around the thumbnail will be displayed flat.

NoThumbText	
Description:	Hides text or lables.
Syntax:	Bool
Default:	False
Context:	<Options>

If this parameter is set to "True", (and a text has been entered) the text underneath the thumbnail won't be displayed.

ThumbTextColor	
Description:	Color of the thumbnail text
Syntax:	HexColor
Default:	000000
Context:	<Options>

Specifies the text color of the thumbnail title.

ThumbTextBold	
Description:	Thumbnail text in bold
Syntax:	Bool
Default:	False
Context:	<Options>

With this parameter the text below the thumbnails can be set to bold as long as the NoThumbText parameter is not set to true.

FixedThumbBar	
Description:	Fixed size of the thumbnail area.
Syntax:	Bool
Default:	False
Context:	<Options>

If this option is set then the size of the thumb bar cannot be changed. (The splitter bar cannot be moved).

ViewerAlign	
Description:	Alignment of the image within the viewer
Syntax:	String
Default:	CC (centered horizontally and vertically)
Context:	<Options>

This parameter specifies the alignment of the loaded images within the Showcase viewer. This value is always a two letter combination.

Possible values are unlimited combinations of:

T (top)
B (bottom)
C (center)

and

L (left)
R (right)
C (center)

Example – align viewer top left

```
<Options>
     <ViewerAlign value="TL" />
</Options>
```

ThumbFading	
Description:	Fade in the loaded thumbnails
Syntax:	Bool
Default:	False
Context:	<Options>

If this parameter is set the loaded tumbnails will be faded in and not abruptly displayed. This parameter has an influence on the Showcase performance. On old computers it can slow down the presentation.

ThumbMargin	
Description:	Margin between the thumdnails and the thumbnail bars.
Syntax:	Number in pixels or 'none'
Default:	6
Context:	<Options>

With the parameter you can define a transparent outer margin from which the thumbnails must hold a minimum distance.

ThumbSpacing	
Description:	Spacing between the thumbnails
Syntax:	Number in pixels or "none'
Default:	4
Context:	<Options>

Set this value if you want to set a space between the individual thumbnails. The outer space is defined ThumbMargin.

Additional FSI parameters

The following parameters are only valid for FSI Showcase and have no effect in FSI Viewer. The parameters can be entered in the .fsi files of the images and/or globally in the configuration file of the Showcase.

ViewerBackgroundColor	
Description:	Background color of FSI Viewer
Syntax:	HexColor
Default:	FFFFFF
Context:	<Options>

Specifies the background color of the image
This color is used for the background of the FSI Viewer and the background of the corresponding thumbnail.

NeptuneLabs ZoomCache

The ZoomCache on the server side is not a component of the FSI products Viewer and Showcase. In addition to the caching functions the ZoomCache enables the support from Flash 5 plugins and the use of additional features such as watermarks or print & save functions within the FSI products and similar NeptuneLabs Image Server technology (e.g. zoomable rendering server module)

Requests to an Image Server are buffered by the ZoomCache. Multiply requested image data are - depending on the settings- stored in an area of the webserver and therefore don't have to be reproduced several times by the Image Server. The capacity of the ZoomChache is only limited by the hard drive capacity.
Due to its simple structure the ZoomCache can be used simultaneously by several webservers and therefore allows many possibilities to distribute the workload and to prevent down time.
With ZoomCache the requested image data can be delivered quicker and therefore is specifically recommended for highly frequented Internet sites.

At this stage the ZoomCache is available as a hosting service as well as an independent product. For more detailed information about the installation of your own Zoomcache please refer to the ZoomCache documents.

In order to use the ZoomCache the following parameters must be entered:

- ZoomCache
- ZoomCacheID

If you don't run a ZoomCache you can receive the necessary data from your Zoom technology partner or ZoomCache Service Partner.

For further information about ZoomCache, please contact your Zoom technology partner or contact NeptuneLabs directly.

Appendix

Example of a _default.fsi file

```
<fsi_parameter>

     <!-- this file contains default parameters -->
     <!-- all parameters will be overwritten by additional .fsi files or
query parameters-->

     <Viewer>
          <Width    value="auto" />
          <Height   value="auto" />
     </Viewer>

     <Options>
          <FpxBase value="http://www.provider.com/fif=/" />
          <FSIBase value="../fsi/" />

          <ScenePreload value="true" />
          <MenuAlign value="BR" />
          <Animation value="BEST" />

          <ZoomCache value="http://zoomcache.provider.com" />
          <ZoomCacheID value="my_zoomcache_id" />
          <ZoomCache5Only value="true" />
     </Options>

</fsi_parameter>
```

Example of an image specific FSI-file

```
<fsi_parameter>

     <!—required parameters for Flash 5 plugin-->
     <Viewer>
          <Width    value="330" />
          <Height   value="338" />
     </Viewer>

     <FPX>
          <!-- Src will be completed by FPXBase of _default.fsi -->
          <Src      value="3d_object.fpx" />

          <Width    value="8128" />
          <Height   value="9168" />
          <TilesX   value="4" />
          <TilesY   value="3" />
     </FPX>

     <Options>
          <InitialAction value='NextScene' />
          <InitialActionDelay value='3' />

          <MenuAlign value="TL" />
          <NoNav value="true" />
     </Options>

</fsi_parameter>
```

FSI-file containing all possible parameters

```
<fsi_parameter>

     <Viewer>
          <Width    value="339" />
          <Height   value="340" />
     </Viewer>

     <FPX>
          <Src value="3d_object.fpx" />

          <Width    value="11580" />
          <Height   value="12800" />

          <TilesX   value="4" />
          <TilesY   value="8" />
     </FPX>

     <Options>
          <Debug    value="1" />

          <MenuX    value="100" />
          <MenuY    value="150" />

          <NoNav    value="true" />
          <MenuAlign     value="TL" />
          <HideUI   value="true" />

          <InitialView value="2, 11, 0.6185, 0.2769, 0.79121, 0.44961, 0"
/>
          <InitialAction value='NextScene' />
          <InitialActionDelay value='3' />
          <InitialMouseMode value="2" />

          <NoZoomLimit    value="true" />

          <Animation      value="BEST" />
          <AnimationSpeed value="80" />

          <Effects        value="qlt=85" />

          <ZoomCache      value="http://zoomcache.provider.com " />
          <ZoomCacheID    value="my zoomcache id" />
          <ZoomCache5Only value="1" />

          <SceneSets      value="17-32;1-16" />

          <NoSceneAnimation value="true" />
          <NoSetLoop      value="true" />
          <NoSceneLoop    value="true" />

          <ScenePreload value="false" />
          <NoImageBlend value=”false” />
     </Options>

</fsi_parameter>
```

FSI Showcase configuration file containing all possible parameters

```
<fsi_parameter>

     <Options>

          <Debug    value="1" />
          <FpxBase  value="http://127.0.0.1/fif=/" />
          <FSIBase  value="fsi/" />

<!— Showcase Parameters -->

          <!-- Layout -->
          <MenuAlign     value="TL" />
          <ThumbBarPosition value="R" />
          <ThumbWidth    value="64" />
          <ThumbHeight   value="64" />
          <FixedThumbBar value="false" />
          <ThumbBarSize  value="1 row" />
          <ThumbMargin   value="6" />
          <ThumbSpacing  value="4" />

          <!-- Colours -->
          <ViewerBackgroundColor   value="FFFFFF" />
          <ThumbBarColor           value="CCCCCC" />
          <ThumbBorderColor        value="CCCCCC" />
          <ThumbTextColor          value="FFFFFF" />

          <!-- Text -->
          <ThumbTextBold value="false" />
          <ThumbTextSize value="12" />
          <NoThumbText   value="false" />

          <!-- Misc -->
          <ThumbFading value="1" />
          <ViewerAlign value="CC" />


<!—FSI Viewer Parameters -->

          <InitialView        value="2, 11, 0.6185, 0.2769, 0.79121,
0.44961, 0" />
          <InitialAction      value='NextScene' />
          <InitialActionDelay value='3' />
          <InitialMouseMode   value="2" />

          <NoZoomLimit        value="true" />

          <Animation          value="BEST" />
          <AnimationSpeed     value="80" />

          <Effects            value="qlt=85" />

          <ZoomCache          value="http://zoomcache.provider.com " />
          <ZoomCacheID        value="my_zoomcache_id" />
          <ZoomCache5Only     value="1" />

          <SceneSets          value="17-32;1-16" />

          <NoSceneAnimation   value="true" />
          <NoSetLoop          value="true" />
          <NoSceneLoop        value="true" />
```

```
          <NoNav              value="false" />
          <ScenePreload       value="false" />
          <NoImageBlend       value="false" />
     </Options>

     <Images>
          <image file="fsi/pic1.fsi" label="Pic No.1" />
          <image file="fsi/pic2.fsi" label="Pic No.2" />
          <image file="fsi/pic3.fsi" label="Pic No.3" />
          <image file="fsi/pic4.fsi" label="Pic No.4" />
          <image file="fsi/pic5.fsi" label="Pic No.5" />
     </Images>

</fsi_parameter>
```

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FSI Viewer – FSI Showcase
Flash based Scaleable Image Viewer

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