

Stirlitz Media Inspector - manual v1.5

- **Page 2:** Introduction
- Page 3: System architecture
- Page 4: How it works
- Page 5: Step-by-step installation manual
- Page 7: SMI Server Main Search (Fingsearch) Configuration
- Page 11: SMI Server Main Search (Fingsearch) Management
- Page 12: SMI Server Patterns management
- Page 13: SMI Server using the Web Interface
- Page 16: Integration with SML

Introduction

Stirlitz Media Inspector (SMI) is advanced software that **recognizes** 'known audio files' in audiostreams or audio logs and reports detailed **analyses** on the usage of this audio in standard or customized web based reports. SMI uses '**Advanced Media Fingerprinting'** techniques that enable it to recognize known audio even in non optimal environments and when the audio source has spedup or slowed-down the audio.

SMI is fully scalable and runs on standard PCs under Windows 2008/2008 R2 or Windows 7.

Small installations, inspecting several audio sources, can run on a single computer. But if you need to inspect multiple sources in markets all over the country, this is no problem either. All system elements, the recording modules (SML Server), search modules (SMI Server), SQL server and WWW interface can be located on different computers, running in different locations, either connected through a local network or through Internet.

Main system elements:

- 1. SMI Server
 - a. Main Search (FingSearch) search, audio conversion, system configuration
 - b. DbMain track patterns (songs, commercials etc.) management
 - c. ImportPatterns automatic import of new tracks (songs, commercials etc.)
- 2. Web Interface
 - a. PostgreSQL server
 - b. WWW Server with PHP support (Apache, IIS)
 - c. SMI WWW Interface
- 3. SML Server
 - a. Log audio
 - b. Audio conversion to data files
- 4. SML Player

Term definitions:

Track	song, commercial, jingle or any other audio file
Pattern	data file of track stored in the SMI database, containing metadata and complete set
	of fingerprints of Track
Key	3 seconds long part of the Pattern, kept in memory by search application, used for
	preliminary identification
Station	source of audio to be 'inspected'

System architecture



How it works

SMI compares 'patterns' with incoming audio streams or previously logged audio.

To do this SMI needs two types of input data:

- Incoming or logged audio converted to a pre-processed format either by the SML server or by the SMI server itself. Pre-processed data files are approximately 80MB/day/station
- Patterns created from audio files, with extra metadata (like Artist, Title, Category etc.). One Pattern is approximately 100kb. These patterns can be created manually using the DbMaint application or automatically using the ImportPatterns application.

The number of Keys to be taken from a Pattern can be pre-defined. A Key is a data file representing 3 seconds of audio from the Pattern. These Keys are used in the preliminary search in the incoming or recorded audio. When a Key is identified, the system will load the Pattern of the whole Track and will try to identify the beginning and the end of the Track.

For good quality audio archives (like recorded from FM) **three keys per Track are enough**. It is recommended however to increase the number of keys for searching in lower quality audio such as web streams. You can go as far as you want, for example one Key for every 15 seconds of the Track (so 12 keys for a 180 seconds song). Please note however that the consequences of using many Keys in a Pattern are lower system performance and higher memory use.

The SMI search algorithm can find Patterns as short as 0.5 seconds. Please be aware that when searching for Patterns that short, the false results level will be increased. For Patterns longer than 10 seconds the level of false and missed hits is minimal and will only occur in the event of audio disturbance in the incoming or logged audio file.

The SMI search algorithm automatically compensates for multiple signal disruptions such as compression or noise. But for the correct identification of audio played at modified speeds (such as music played out faster in some radio stations) special options have to be enabled while creating the Patterns.

Step-by-step installation manual

Installation of

- SMI Server 1.0
- SMI Web Interface
- PostgreSQL Server
- IIS Server on Windows XP

The SMI Server, SQL Server and Web Server (IIS or Apache + PHP) can be installed on different computers connected by a TCP/IP connection, or on single computer, running Windows XP or 2003. The SQL and Web server can be also hosted on other operating systems (like Linux), but those configurations are not officially supported. Multiple SMI Servers can use the same SQL database, but only if they are using the same Patterns database (located on a shared network folder).

The recorded installation procedure is an integral part of this manual. You can download it here: On-line version: <u>http://static.stirlitzmedia.com/presentations/SMI_Install/</u> Off-line version: <u>http://static.stirlitzmedia.com/presentations/SMI_Install.zip</u>

Please watch it before or during installation.

<u>Step 1:</u>

- Disable automatic system updates, and automatic system restart after the installation of updates.
- Change Windows regional options to English (US). SMI may work incorrect with other settings.
- It's recommended to setup automatic login, to start SMI automatically on Windows startup
- Please note, that SMI has to run on account which is member of Administrators users group

<u>Step 2:</u>

Install PostgreSQL Server 8.1 or newer (if not yet installed)

<u>Step 3:</u>

Install WWW server (if not yet installed) We recommend using IIS Web Server running on Windows XP

<u>Step 4:</u>

install PHP and SMI Web Interface (if using Windows as SQL/WWW server)

- extract packages PHP_5_2_SMI_preconfigured.exe and SMIServer_www_interface_php.exe, on the computer with the WWW server (Windows).
- After extraction, import c:\php_registry_ini_location.reg into the system registry, and add 'c:\php' to system path.

Step 5: IIS configuration (if using IIS on Windows XP)

- Add the php isapi filter (c:\php\php5isapi.dll) to IIS Web Sites configuration.
- Change IIS documents root to c:\SMIServer_www
- Add index.php to the Default documents list
- Restart IIS

Step 6: IIS and PHP check

Open http://localhost/info.php in your web browser on the www server, to check configuration.

Step 7: SMI Server installation

- Install SMIServer version.exe _
- Run c:\SMIServer\bin\info.exe, send the codes together with your company name to activation@StirlitzMedia.com.
- Save the license file you will receive by e-mail to c:\SMIServer. [Please note that the license file generation is a manual process and that it may take a couple of *hours before you receive the license file]*

Step 8: SQL Configuration

- Run the PostgreSQL management tool _
- connect to the SQL server _
- create a new user
- create a new database, be sure to use utf8 encoding _

Step 9: SMI Web Interface configuration

- on the WWW Server computer, open c:\SMIServer_www\inc\config.inc.php using Notepad
- enter the correct sql database access parameters: \$dbhost, \$dbport, \$dbname, \$dbuser, \$dbpass _
- save the modified file _

Step 10: SMI Server – first configuration

- Run SMI Main Search for the first time _
- Accept the global configuration
- Refer to the 'SMI Server Main Search (Fingsearch) Configuration' chapter below for more information

Step 11: SMI Server – first station

- In SMI Main Search, create a new station
- Configure the new station, including SQL configuration -
- Refer to the 'SMI Server Main Search (Fingsearch) Configuration' chapter below for more _ information
- Right click the station, and select 'Start search' _

Step 12: Final check

Open http://localhost/ in the web browser on the www server, to check if SMI web-interface is running correctly.

SMI Server – Main Search (Fingsearch) Configuration

Global configuration

Click Configuration ... in Fingerprints Database section to show Main Configuration window.

Main Configuration		B X
Patterns Database Path:	Vingdb	
Process Priority	NORMAL	
Search Engine Memory:	512	
	Cancel	ОК

Available options:

Patterns Database Path

location of fingerprints (songs, jingles, commercials) database. It can be absolute (like c:\fingeprints) or relative (like ..\fingdb) path. Base path for all relative paths is c:\SMIServer\bin

Process priority

priority of the main search application. NORMAL is the default and recommended value.

Search Engine Memory

memory (in MB) used by the main search engine. This value should not be higher than 50% of the total memory installed in the computer. For 32 bit systems (Windows XP or 2003) the maximal value is 512.

Imports

Click *Configuration* in *Patterns Importer* section to show the *Imports - Configuration* window. This configuration dialog defines rules for auto-import of songs, jingles, commercials and all other audio files into the patterns (fingerprints) database.

Available options:

Imports - configuration			×
path	mode	codec	category
c:\music*.mp3	id3	mp3	Music
Add Edit Remove		(Cancel OK

Click Add button to show Add import item window.

🕄 Add/Edit import item		B _ D ×
Folder		
Metadata import mode	Audio	decoder
	•	▼
Category File	es extension	Number of keys
default *		5
Import file in various speeds (re	sample)	🔲 1% slower
🔲 3% faster		🔲 2% slower
🗖 2% faster 🔽 ori	iginal speed	🔲 3% slower
🔲 1% faster		4% slower
		Cancel OK

Folder: source folder containing the audio files

Metadata import mode: mode of importing information such as 'Artist' and 'Title'

Audio decoder: mp3 – for mp3 files, wave – for uncompressed wave files, DirectShow – for all files which Windows Media Player can play

Category: category to assign imported files

Files extension: extension of files to import. Use * to import all files from source folder *Number of keys*: number of 3 second long fragments, which are used for the primary identification of audio. Higher number = higher accuracy = lower search speed. Recommended values are 3 for short tracks (advertisements, jingles), 5 for medium sized files (songs). Increase these values to compensate poor incoming audio quality.

Import file on various speeds: identify songs on stations that are playing tracks in different speeds (usually a few percent faster). Import files in resampled versions, faster or slower than the original.

Click OK to accept changes, or Cancel to ignore them.

Click Edit or Remove buttons to modify Imports - Configuration items.

Click OK to accept changes, or Cancel to ignore them.

You have to start the 'PatternsImporter' application to start the automatic importing. Click *Start* in *Patterns Importer* section to launch the process.

8

WWW Interface

Click *Configuration* in *WWW Interface* section to show the *WWW Interface* window. Use *Add* and *Remove* buttons to define categories. Use *Color* button to define color for category. Selected colors will be used in WWW Interface to identify audio.

Make sure these categories correspond with the categories as set in the 'Imports -Configuration window'.

Stations

Use *Add/Edit/Duplicate/Remove* buttons in the Stations section to add/remove/modify stations items. Each item (station) indicates a single processing unit which is processing source audio data (from a recorded radio station), and produces results visible as a single station in the WWW Interface.

🕄 Station Config	e x
- Station name	Output
Test	Logs output path:\log\Test
Pre-processed database location Pre-processed database location Max size of database (days) - 0 to disable auto-delete 0 Pre-processed database conversion method C No conversion. Archived database or database created by SML will be used.	PGSQL Address: 127.0.0.1 SQL Database: smi1 SQL User: test SQL Password: **** SML Server URL: sml://sml-server:12540/Test/
O Direct conversion from the sound card	Settings
Wave-in Name: Image: Conversion from SML audio database Conversion from SML audio database Image: Conversion from SML audio database database location Image: Conversion from SML audio database Conversion from SML audio database Image: Conversion from SML audio database WWW Interface Image: Conversion from SML audio database Station background color in web interface - click to select Image: Conversion from SML audio database	Conversion Interval (minutes): 10 Merge Precision (seconds): 60 Search Interval (minutes): 1 Auto re-search (days) 14 Default Search Mode: NOT_SEARCHED Thread Priority: BELOW_NORMAL Minimal result length (sec/%) 2 / 10 Working Path: data\working_Test Commands Path: data\commands_Test
	Generate Defaults Cancel OK

Station name

Station name, as it will be displayed in WWW Interface

Pre-processed database location

Location of the pre-processed audio archive (recorded audio converted to the SMI pre-processed format). There are three options available:

- No conversion to use archived files, or pre-processed files created directly by the SML server (only version 2.5 or newer)
- Direct conversion from the sound card to create preprocessed files directly from sound card
- When creating or duplicating a station, click the *Generate Defaults* button after entering the name of the station. This will generate the default values. **Do not click this button while**

editing the stations settings.

- Conversion from SML – to create pre-processed files from SML (any version) audio files.

Max size of database

Number of days of pre-processed files to keep. Keep 0 to disable automatic delete.

WWW Interface – background color

Define the color that will be used in the WWW interface for the station.

Logs output path

Folder where the history log files will be saved. They can be used by SML or to integrate the SMI search results in other applications. Leave blank to disable.

PGSQL Address/Database/User/Password Details for PostgreSQL database access. Leave blank if you are not using SMI Web Interface.

SML Server URL URL address of the SML server containing audio for the station. Format: sml://server_address:server_port/Station_name/ (Note: You need SML Player 2.5n or newer to use this function)

Conversion Interval

Indicates how often the conversion process (conversion from SML archive) will be executed.

Merge precision

Indicates the precision of results merging process. All holes smaller than the *Merge precision* value in a single song will be removed.

Search interval

Indicates how long SMI will wait before starting a new search process.

Auto re-search (days)

Indicates how many days the system will 'search back' when a new pattern is added.

Minimal Result length (sec/%)

Indicates the minimal length of the search result (in seconds, and in % of total length of the track). All shorter detections will be removed from results.

Working Path, Commands Path

Folders containing search results, and other data used internally.

Click OK to accept changes, or Cancel to ignore them.

SMI Server – Main Search (Fingsearch) Management

Stations Path Search Status Name Zet .\bazysfing\zet\ Start search Pogoda \bazvsfing\pogoda\ Stop search Start conversion Stop conversion Re-search not recognized (all) Re-search not recognized... (period) Re-search from scratch (all) Synchronize with SQL Set all as searched Properties L Edit station... Duplicate Add station.

Right-click selected station to manage the searching process.

Select *Start/Stop search* to control the searching process.

Select *Start/Stop conversion* to control conversion process (audio to pre-processed data, from the SML archive or the sound card).

Select *Re-search not recognized* [...] to re-search undetected parts of archive.

Select *Re-search from scratch (all)* to delete all results for the station and search the whole archive again.

Select Synchronize with SQL to force data export to the SQL server.

Select *Set all as searched* to mark the whole archive as searched.

SMI Server – Patterns management

Use the DBMaint tool to manage the patters database. Click *Manage* in the *Fingerprints Database* section to launch DBMaint.

Stirlitz Media Inspector	- DbMaint			B _D×
Filter			Category	×
	Less.			
Id 000000000	Artist	Litte	Category	
000000001	Manis Monsselle	finally want finally made me happy finatalie cole		
	Alanis Morissette	Ironic		
000000003	Kylie Minoaue	Fever		
Album: Fever (Special Edition)				
Artist: Kylie Minogue				
Created: 2007-06-11 06:54:43				
Genre: Pop	I - U4 - Fever.mp3			
SourceFileNameExt: Kylie Min	ogue - CD1 - 04 - Fever.mp3			
SourceFileNameExtFull: C:\@	/Kylie Minogue - CD1 - 04 - Fever.mp3			
Year: 2002				
Length: 03:31.638				
Keys at: 27678, 58340, 89002	2, 119652, 150314, 180976			
Stirlitz Media Inspector 1.0 prev	iew 15 20070508, This version will expire in: 81 da	ys		1.

Using this application you can:

- import new files into the database (*File->Add* and *File->Add Special* from menu)
- edit or remove one or more files (*File->Edit, File->Remove*, right mouse button (RMB) on selected files)
- see the list of items in the database, filtered by category (*Category* field), or by matching string (*Filter* field)
- Group files manually (RMB on selected files) or automatically (*Tools->Group by Artist and Title*). Grouped files will be shown under single name in the search results. This function is generally used to group different versions of the same song.

SMI Server – using the Web Interface

Station history log – single station mode

STILLI	Z					
	Stations	Cuts				
	Clear mode	Exact mo	de			
from:	previous da	зу			first previous [1] next last	
June 2007 We Th Fr Sa Su				Results f	for: 2007/06/11 00:00 - 2007/06/11 23:59 stations: Capital FM	
1 2 3			Capital	FM	22	Export
6 7 8 9 10			Hour	Category	Artist - title	Dur.
20 21 22 23 24			2007/0	5/11		
27 20 29 30			01:04:31	music	Orson - No Tomorrow	2:21
- to			01:11:07	music	Daft Punk - One More Time	0:45
			01:19:51	music	Nelly Furtado - Maneater	2:31
s - from/to			01:30:36	music	The Feeling - Love It When You Call	2:46
			01:48:38	music	Justin Timberlake - My Love (Feat. T.I)	0:38
M	1		02:18:16	music	Will Young - Leave Right Now	2:26
	1		02:26:01	music	Pink - U Ur Hands	3:19
gory filter			02:32:32	music	Basement Jaxx - Red Alert	2:44
			02:40:43	music	Cristina Aguilera - Aint no other man - 2006	3:22
			02:56:46	music	Hard Fi - Living For The Weekend	1:53
rs separated			03:10:34	music	Alicia Keys - If I ain't got you	3:20
ortional high			03:19:24	music	Madonna - Hung Up Radio Version	2:56
			03:25:39	music	Outkast - Hey ya	2:53
v breakes			03:28:59	music	Simon Webbe - Coming Around Again	2:48
mber of hours:			03:36:41	music	TLC - Unpretty	3:20
			03:51:20	music	Everything But The Girl - Missing	2:20
ger then:			04:03:44	music	Snoop Dogg Feat. Charlie Wilson & Justin Timberlak - Signs	e 3:45
			04:10:59	music	Kylie Minogue - Spinning Around	2:54
esh			04:26:51	music	Outkast - Hey ya	3:43
			04:46:46	music	The Calling - Wherever You Will Go	3:03
			04:59:12	music	TLC - No Scrubs	2:32

Stations history log – multiple stations mode

	Z							
	Stations	Cuts						
	Clear mode	Exact mode						
Data farmi	previous d	ay	first	t previou	is [1] nex	d last		next day
determinit June June A 2007 Mo Tu We Th Fr Sa Su			Results for: 200 stations	7/06/08 : Mercur	00:00 - 2 y FM, Sou	:007/06/08 23 uthern FM	:59	
4 5 5 7 8 9 10	Southe	ern FM	8	Export	Mercur	y FM	20	Export
11 12 13 14 15 16 17	Hour	Category	Artist - title	Dur.	Hour	Category	Artist - title	Dur.
18 19 20 21 22 23 24 25 26 27 28 29 30	2007/0	6/08			2007/0	6/08		
🗖 Date - to	02:55:18	music	Liberty X - Just A Little	3:19	02:55:33	music	Liberty X - Just A Little	3:11
Hours - from/to Stations:	03:04:02	music	Scissor Sisters - Don't Feel Like Dancing	3:53	03:10:53	music music	Mika - Grace Kelly Scissor Sisters - Don't Feel Like	2:51
- select multiple statio	03:39:33	music	No Good	3:29			Amy Winebouse - You Know I'm	
Bright (webstream)	03:43:25	music	The Coral - In The Morning	1:58	03:41:55	music	No Good	3:30
Capital FM Heart	03:50:34	music	Phil Collins - You Can't Hurry Love	2:40	03:49:34	music	Liberty X - Just A Little	3:35
Magic	03:55:59	music	Moloko - Sing it back	2:38				
Mercury FM	1							
Category filter	04:03:50	music	Pink - Who Knew Nelly Feat Kelly Dewland	3:16	04:07:00	music	Pink - Who Knew Nelly Feat Kelly Rewland	3:21
Options	04:10:00	music	Dilemma	4:32	04:10:34	music	Dilemma	4:35
Hours separated	04:46:42	music	Sixpence None The Richer - Kiss	3:08	04:19:34	music	Donna Lewis - I Love You Always Forever	3:44
Proportional high	04:49:52	music	Shapeshifters - Lola'S Theme	3:18	04:23:27	music	The Zutons - Valerie	3:46
Show breakes					04:27:24	music	HI TACK - Say Say Say (Waiting 4 you)	2:47
Max number of hours:					04:38:02	music	U2 - With or Without You	4:47
24					04:43:05	music	Shapeshifters - Lola'S Theme	3:12
Cuts longer then:	05 00 50			0.00	05.07.45			0.46
	05:03:52	music	Puff Daddy feat, Eaith Evens &	2:39	05:07:15	music	Puff Daddy feat, Faith Evens &	2:46
Refresh	05:06:46	music	112 - I'll be missing you	3:22	05:10:15	music	112 - I'll be missing you	3:47
	05:10:29	music	Mika - Grace Kelly	2:51	05:43:34	music	Alanis Morissette - Ironic	3:39

Available filters:

Date - from/Date - to: limit the display to the selected period

Hours – from/to: display items between selected hours only

Stations: display one or more selected stations

Category filter: limit displayed items to selected categories

Cuts longer then: display only items which were played for more than n seconds (use 'n%' to filter on percentage)

Options/Exact mode: change graphical display mode to more time-realistic

Click the selected song title to switch to Cuts mode and get more information about the cut. Click *Export* to export the log to Excel-compatible format.

Cuts – search

	Stations	Cuts
	On-air history	Statistics Schedule
Date - from		Search (min. 3 chars): beyonce <u>Search</u>
Hours - from/to		1. Bevonce - Baby boy (feat Sean Paul)
Stations: - select multiple statio Bright (webstream) Capital FM Heart Magic Mercury FM Category filter Options Hours separated Proportional high Max items: 24 Cuts longer then: Refresh		 2. Beyonce - Irreplaceable Title: Irreplaceable Artist: Beyonce Category: Music File name: Beyonce - Irreplaceable.mp3 Total number of plays: 1134 in stations: Capital FM, Bright, Bright (webstream), Southern FM, Mercury FM First play: 2007/06/10 08:41:58 3. Beyonce - Naughty girl 4. Beyonce Feat. Jay Z - Crazy In Love 5. Beyonce Feat. Jay Z - Deja Vu

Cuts - On-air history



Cuts – Statistics

	Z							
	Stations	Cuts						
	On-air history	Statistics Schedule						
Date - from			Search (min. 3	chars):				
			beyonce					
🗖 Date - to			Search					
Hours - from/to		Title: Irreplaceabl	0					
Stations:		Artist: Beyonce						
- select multiple statio	T	Category: Music						
Bright	1	File name: Beyor	nce - Irreplaceable.r	np3				
Bright (webstream)	1	Total number of	plays: 1134					
Heart		in stations: Capit	tal FM, Bright, Bright	t (webstream), Sout	hern FM. Mercu	irv Fl	м	
Magic		First play: 2006/	11/01 17:55:17			.,		
	-	Last play: 2007/	06/10 08:41:58					
_ Category filter			Booulto	for: 2006/11/01 - 20	07/06/11			
ptions		statio	ons: Bright, Bright (v	vebstream), Capital	FM, Heart, Mag	ic. N	Aercurv	
Hours separated			<u></u> /g···· (·	FM, Southern FM	,,			
Proportional high			Statistics of	of most popular plays	s in a station			
1ax items: 24		Station	first play	last play	Most popular in d	avs	Most popular in h	hours
Cuts longer then:		Station	in de pidy		2007/01/07	8	19:00-19:59	47
		Capital FM	2006/11/01 17:55:17	2007/06/09 06:29:08	2007/01/10	8	4:00-4:59	33
Refresh					2007/01/30	8	5:00-5:59	30
					2007/04/13	1	3:00-3:59	4
		Bright (webstream)	2007/04/13 09:25:49	2007/06/02 03:06:15	2007/04/15	1	1:00-1:59	3
					2007/04/16	1	6:00-6:59	3
					2006/11/18	4	10:00-10:59	30
		Bright	2006/11/01 18:13:11	2007/06/10 08:41:58	2006/11/25	4	5:00-5:59	26
					2006/12/16	4	17:00-17:59	26
		Courth and City		2007/05/07 05:00 00	2006/11/11	2	21:00-21:59	11
		Southern FM	2006/11/06 19:49:34	2007/06/07 05:09:32	2006/12/17	2	17:00-17:59	9
					2007/01/10	2	21:00-21:59	14
		Mercupy FM	2006/11/12 18:31:03	2007/06/03 19:00:19	2006/12/04	2	20:00-20:59	10
		mercury rm	2003/11/12 10:31:03	2007/00/00 19:00:19	2003/12/17	2	17:00-17:59	7

Cuts – Schedule

MEDIA INSPECTOR																								
	Stations	Cuts																						
	On-air history	Statistics	Schee	dule																				
Date - from							Sear	ch (r	min	3.0	hars													
							hevo	ince								_								
Date - to							Se	arch																
Hours - from/to		Title:	Irrepla	ceat	ole																			
tations:		Artist	: Beyor	nce																				
- select multiple statio 💌	1	Categ	ory: M	lusio	2						-													
Bright 🔺		File n	ame: E	leyo	nce	e - II	repl	ace	able	e.mp	03													
Bright (webstream)	1	Durat	ion: 22	7 0	i pi	ays:	113	54																
Heart		in sta	tions:	Can	ital	FM.	Brig	ht.	Bria	ht	(we	bst	ream). s	out	her	n Fl	м. г	Mer	cur		м		
Magic	.1	First	play: 2	006	/11	/01	17:5	5:1	7		(,			
	_	Last p	lay: 2	007	/06/	10 0	8:4	1:58	3															
Category filter								_			_													
ptions								Res	sult	s to	or: 2	000	5/11/	/01	- 20	007/	(06)	11						
Hours separated									S	tat	ions	: B	ight	, <u>Ca</u>	ipita	ai Fr	VI							
Dreportional high									Sta	atis	tics	of	plays	5 IN	eac	n ho	our							
ax items: 24		hou	• »																					
uts longer then:		Dat					4 5			8	9	10	11 1	2 13	14	15	16	17	18		20	21	22 2	3 Tota
		2006/1	1/01															1	1	1		1		4
Refresh		2006/1	1/02 1		1		1			1									-	1		1	1	7
		2006/1	1/03				1			-			1	1						1				4
		2006/1	1/04		1				1	1				1	1		1	1					1	7
		2006/1	1/05				1	1	-				1		1				1		1	1		7
		2006/1	1/06		1			1		1			-	1	1					1		-	1 1	8
		2006/1	1/07	1				1						1							1	1	1	6
		2006/1	1/08		1		1	1						1			1			1			1	7
		2006/1	1/09 1				1						1	1		1			1	1		1		8
		2006/1	1/10				1		1				1	1						1				5
				1	1					1					1			1 1					1	7
		2006/1	1/11	1 ±	_																			
		2006/1 2006/1	1/11 1/12	-	-			1					1			1			1				1	5
		2006/1 2006/1 2006/1	1/11 1/12 1/13	-	-	1		1	1		1		1		1	1			1	1			1	5

SMI - Integration with SML

Import SMI history logs into SML

To import SMI history logs into SML (version 2.4 or newer) create file named *onAirImport.ini* in main SML Server directory containing:

[Import0] Name=StirlitzInspector Mode=columns_11 FileMask=YYYYMMDD.hist datStartTime=0,8 datStartTimeFormat=hh:mm:ss datLength=9,6 datLengthFormat=s datTitle=15,30 datArtist=46,30 datCategory=77,16

Restart SML – Config, and select OnAir mode *StirlitzInspector* in the 'station Edit' dialog. The *Log path* should point to SMI *Logs output path* for the specific station.

Automatic export pre-processed data from SML

To enable automatic export of files from SML (version 2.5p or newer) to SMI :

- In SML, in station edit window, configure correct folder in Internal audio export field
- In SMI Main Search, configure the same folder in automatic import option with settings:
 - o Metadata import mode: SML
 - Audio decoder: DirectShow
 - Files extension: mp3
- Start (or restart if running) SMI Patterns Importer

For more information check out the Stirlitz Media website, or contact us.

Stirlitz Media www.stirlitzmedia.com support@stirlitzmedia.com