EconomicReview Sample

Sample of Information Economic
Channel Design

Instruction on Installation
and Use

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FCC Information

FCC ID:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

Shielded cables and I/O cards must be used for this equipment to comply with the relevant FCC regulations. Changes or modifications not expressly approved in writing by SoftLab-NSK Ltd. may void the user's authority to operate this equipment.

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This warranty is in lieu of any other warranty expressed or implied. In no event shall we be held liable for incidental or consequential damages, such as lost revenue or lost business opportunities arising from the purchase of this product.

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Introduction

EconomicReview Sample is included in the ForwardT Software Samples set. Set of samples is designed to demonstrate possibilities of the ForwardT product line in broadcast design. To view the samples the FD300 board is not required.

The sample shows one of the ways to overlay titles on a full-screen video. The channel content are economic news and reviews.

Design layout includes various types of title elements: Picture, Clock, Caption, RollCrawl (scrollable crawl line).

The sample is designed via Forward Titling, TV Clock, FDMovieListEditor, FDTitle Designer, FDOnAir programs included in the ForwardT Software package. Detailed information on program can be received from User's guides at http://www.softlab-nsk.com/docs.html

This document contains the information on sample installation, deinstallation and its launch. Also, title project description, features of some title elements settings configuration and main steps of the sample creating are listed in this document.

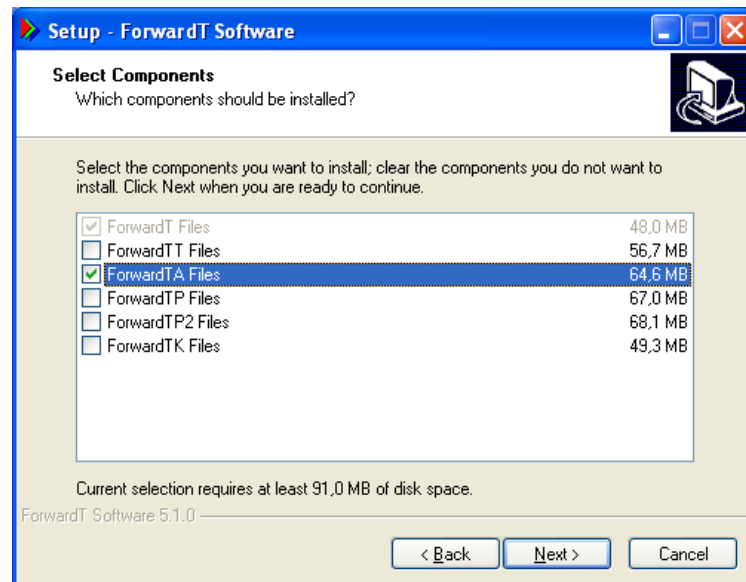## Installation & Deinstallation of the Sample

1. Sample Using Requirements

To install and use the sample the ForwardT Software, not less than 5.0.0 version for products listed below is required:

- Forward TA;
- Forward TP;
- Forward TP2.

The installer is on the setup disc. It can be also downloaded at http://www.softlab-nsk.com/forward/download.html

During the ForwardT Software installation the Setup - ForwardT Software window appears. Set a check mark in the appeared window opposite the name of one of the components listed above.


2. Sample Installation

Sample installation is implemented as usual. Answer installation program (installer) questions subsequently. Switching from one dialog window to another is made via Next (switching to the next page) and Back (switching to the previous page). Click Cancel if necessary to stop the installation.

1. To launch installing start the EconomicReview_X_X_X.exe file where X_X_X denotes version number.

2. The installer finds the ForwardT Software, not less than 5.0.0 version on the computer.

   If the ForwardT Software isn't found the window with the message will appear and the installer will finish working.
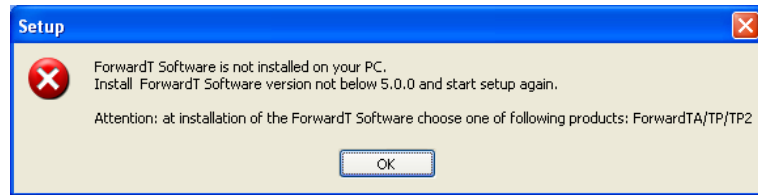
In this case install the ForwardT Software.

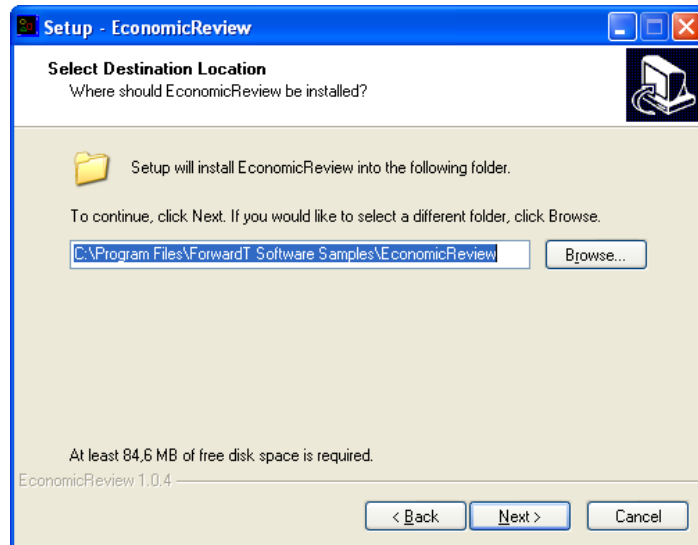If the ForwardT Software is installed the installer continues working.

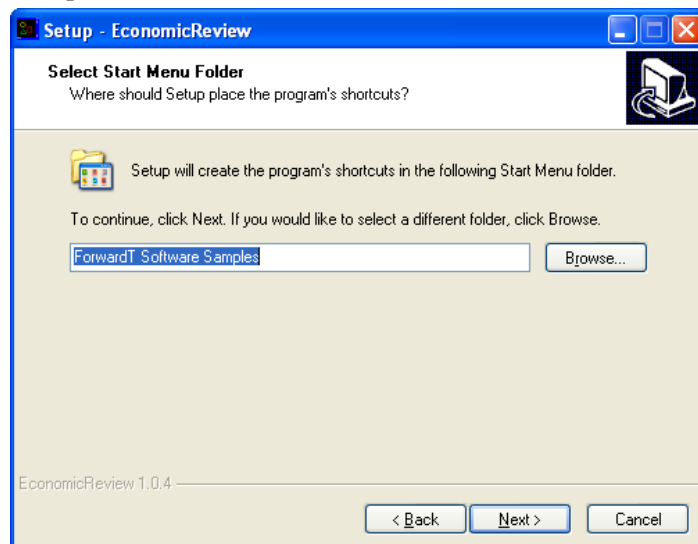3. Welcome to the EconomicReview Setup Wizard window appears.
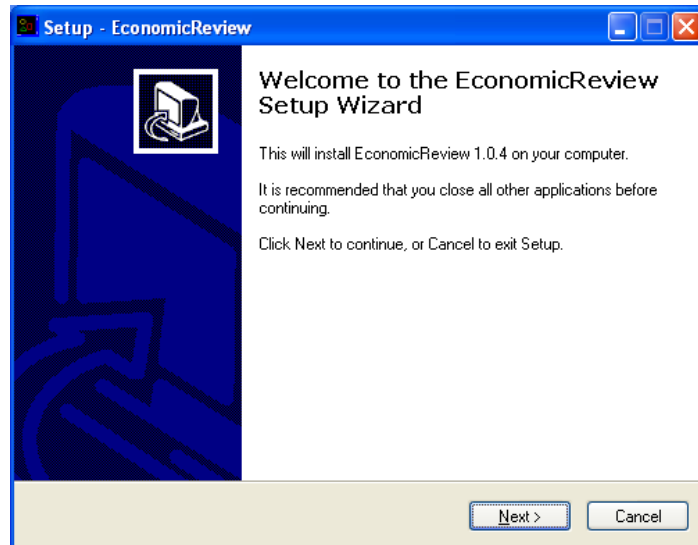
Click Next to continue.

4. Select a folder to install the EconomicReview sample.
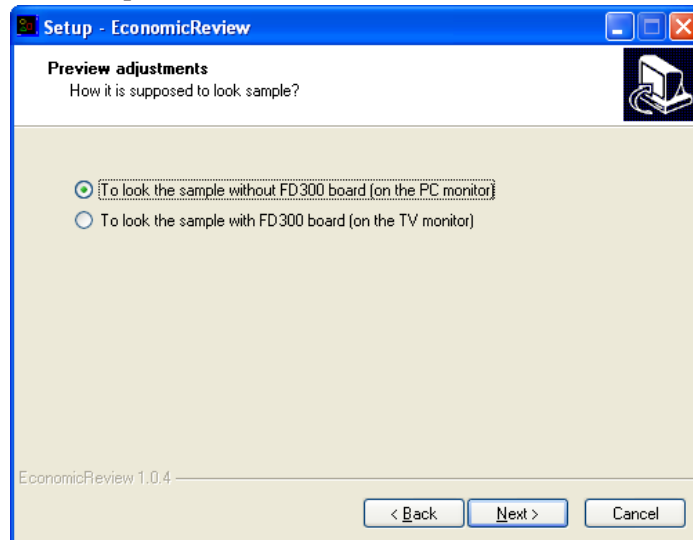

5. Select the Start menu folder to create shortcuts for the sample.

6. Choose one of preview modes:

- To look the sample without FD300 board (on the PC monitor) –
  view without the FD300 board;

- To look the sample with FD300 board (on the TV monitor) –
  view on the TV monitor or in the FDPreviewMonitor
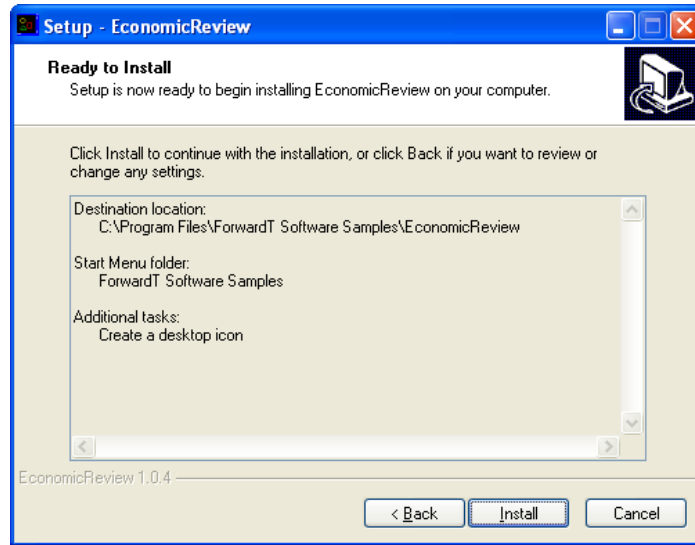 window if the FD300 board is installed. This program
  requires the board.

7. If the check mark Create a desktop icon is set the shortcut for
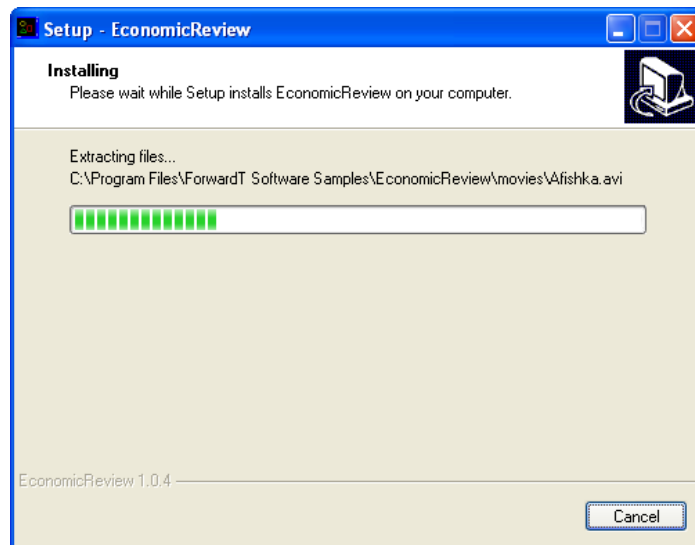   launching the sample will be placed on desktop.
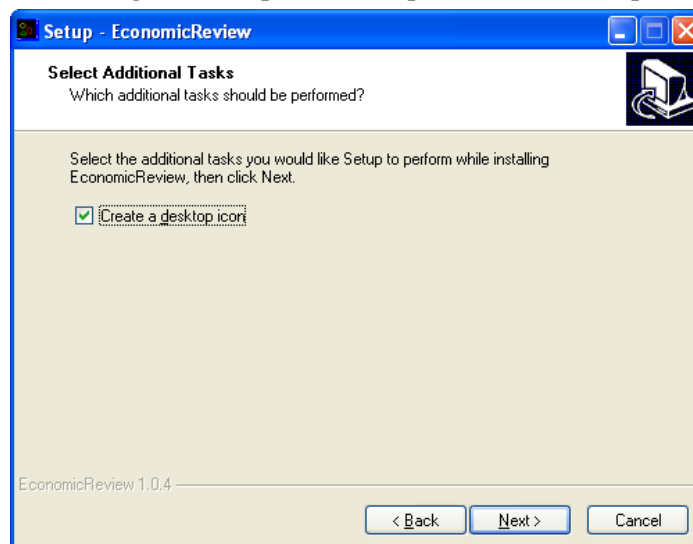
8. Check the information on installing parameters. Click Back if necessary to adjust parameters.

   To continue installing with selected parameters click Install.

9. The installer installs files in the indicated folder.

10. After installing is complete set corresponded check marks to perform necessary options automatically:

- View Readme.txt – open the file with supporting information;
- Launch EconomicPreview demo – start the sample performance.

✔ **Important:** If radio button To look the sample with FD300 board is selected plug TV in the board output or open FDPreviewMonitor program to view.
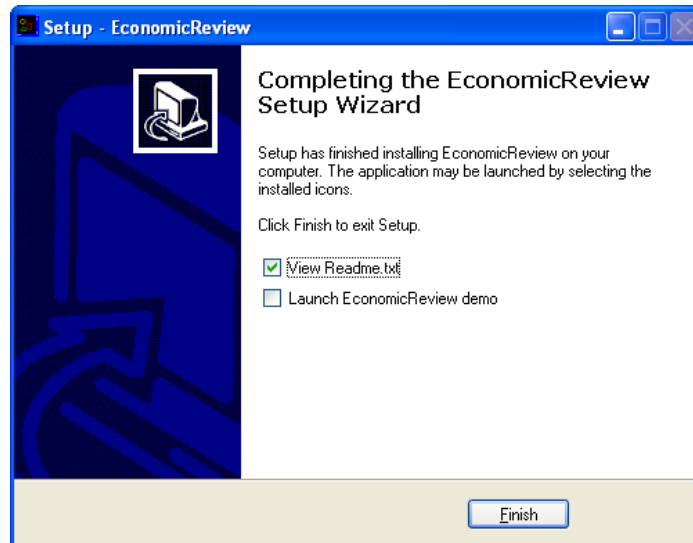
3. Sample Deinstallation

There are 2 ways to deinstall the sample:

- Via Start Menu command: Programs > ForwardT Software Samples > EconomicReview > Uninstall;
- Via Control Panel: open Add or Remove Programs window. Click left mouse button on the bar with the sample name EconomicReview X.X.X, where X.X.X – version number in the appeared window. Click Remove.

Sample Demonstration

1. Demonstration Launching

To start the sample demonstration use either the shortcut or the Start menu command: Programs > ForwardT Software Samples > EconomicPreview > Start.

Perform one of the following operations before launching the sample demonstration if during the sample installation the mode To look the sample with FD300 board was set:

- Connect board output to TV video input to view the sample on TV monitor;
- Launch the FDPreviewMonitor program to view the sample on computer monitor. To do so use either the program shortcut or the Start menu command: Programs > ForwardT Software > Tools > Preview Monitor. In the appeared window remove check mark Input and press Show.
  Sample demonstration will be implemented via this program.

2. Begining of Demonstration

Programs windows will appear automatically in a subsequent way during the sample launching on the computer monitor:

1. SLTitlePreview, instance #22 window will appear if during EconomicReview installation the mode To look the sample without FD300 board is set.
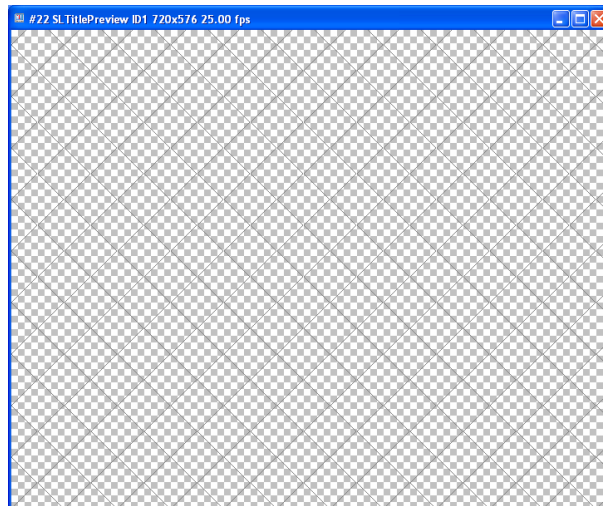
SLTitlePreview program is designed to view FDOnAir output data without the FD300 board.

2. FDOnAir, instance #22.
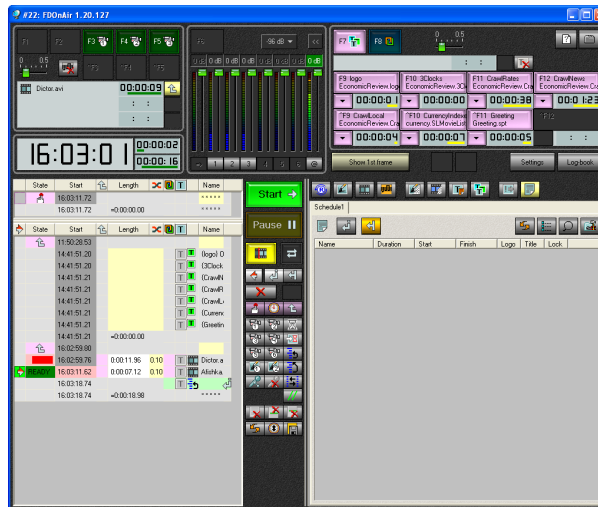
The FDOnAir application is designed to control broadcasting in an automatized way i.e. schedule preparation (playlist), broadcast realization, broadcast control and its adjusting.

3. Displayed Information

The information either on TV or in the view program window will be displayed when steps mentioned above will be completed.

SLTitlePreview program window that appears during the sample demonstration is shown below. Information blocks are marked by numbers.
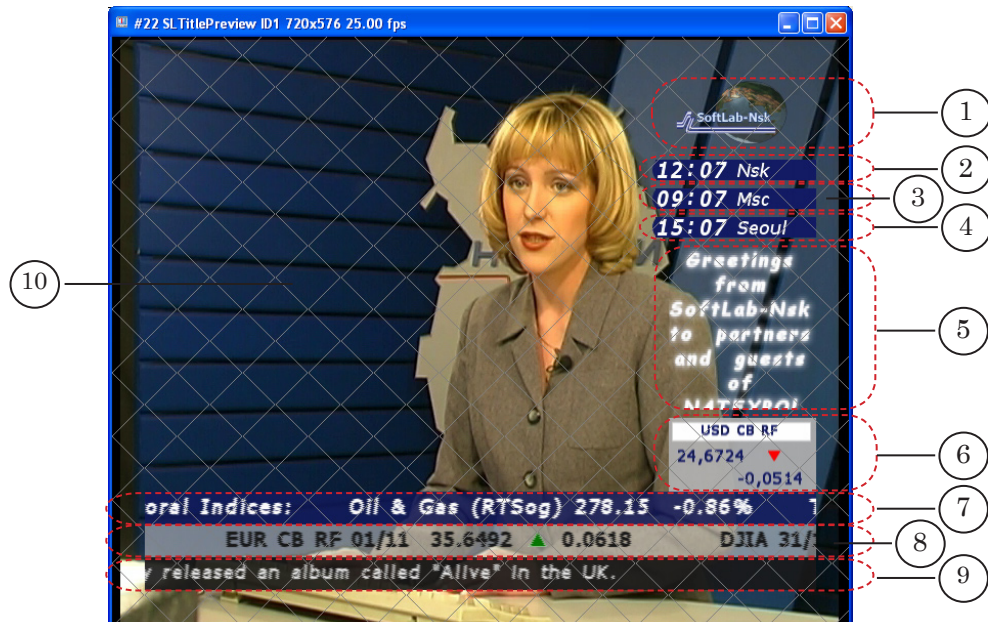
The sample shows the way of titles overlay (1–9) on the background video (10).

The background video is a range of subsequently displayed video clips.

Titles contain various information. The table below contains information on displayed information blocks description.

Picture element number	Information block	Brief description (displayed information)
1	Logotype	Soft-Lab NSK logotype on the background with displayed revolving sphere.
2	Local time	Current time corresponded to PC system time.
3	Time in Moscow	Current time in another time zone – with time offset back at 3 hours relatively PC system time.
4	Time in Seoul	Current time in another time zone – with time offset forward at 3 hours relatively PC system time.
5	Greeting	Scrollable crawl line with the greeting text moving bottom-up.
6	Indices_1	Cycled information on indices and exchange rates which updates by turn.
7	Stock Quotes	Scrollable crawl line with messages about stock quotes moving from right to left. Demonstration is looped i.e. the first message follows the last one.
8	Indices	Scrollable crawl line with messages about indices and exchange rates moving from right to left. Demonstration is looped.
9	News	Scrollable crawl line with news moving from right to left. Demonstration is looped.

4. Sound

Sound is played via video clip of TV schedule block during the demonstration.

If the SLTitlePreview program is used to view the sample the sound will be played via sound device used by default on PC. Test sound will be played on the sound device from the program launch moment to the start of information displaying.

5. View Completion

Close all applications appeared at the beginning in the given below turn to complete the sample view:

1. FDOnAir.

2. The program where the view is performed:
   - SLTitlePreview;
   - FDPreviewMonitor.

✔ **Important** First close all FDOnAir instances, then close SLTitlePreview program window.

Title Project

1. General Overview

Layout of air design with titles is made via title projects. Projects are created via the FDTitle Designer program (for more information, see «FDTitle Designer. Title Projects Editor. User's Guide»).

Specify set, types of title elements, their screen position and tasks creating a new title project.

All title elements are distributed according to title objects, which are specific named groups. Title objects are used in the FDOnAir program to manage titles: titles switching on/off, task updating etc. (for more information, see «FDOnAir. Broadcast Automation. User's Guide»).

EconomicReview.SLTitleProj is used in the EconomicReview sample.

2. EconomicReview.SLTitleProj Elements and Objects

2.1. General list of project title elements

The table below contains information on all title elements, its name, type, task name, element purpose (content design or content display), element grouping according to title objects.

Title element name	Title element type	Task file name*	Information block	Title object	
				Name	Index on picture below
globe	AnimLogo	movies\Globe.avi	Logotype	Logo	1
logoSL	Picture	StatTitles\logo.png			
clock_Nsk	Clock	nsk_tah.clc	Local time	3Clocks	2
clock_Msc	Clock	msk_tah.clc	Time in Moscow		
clock_Seoul	Clock	seoul_tah.clc	Time in Seoul		
text_rates	RollCrawl	spt\finance.spt	Indices_2	Crawl_Rates	6
bckgr_rates	Picture	StatTitles\bg1.tga			
text_news	RollCrawl	spt\news.spt	News	Crawl_News	7
bckgr_news	Picture	StatTitles\bg2.tga			
text_price	RollCrawl	spt\Local.spt	Stock quotes	Crawl_Stock_price	5
bckgr_price	Picture	StatTitles\bg3.tga			
indices	AdsBlock	StatTitles\currency.SLMovieList	Indices_1	Currency_Indexes	4
text_greeting	RollCrawl	spt\Greeting.spt	Greeting	Crawl_Greeting	3

*Hereinafter file paths are indicated concerning the EconomicReview folder.

The FDTitle Designer program window in edit and preview modes are shown on pictures below. All title objects are shown and marked with numbers.
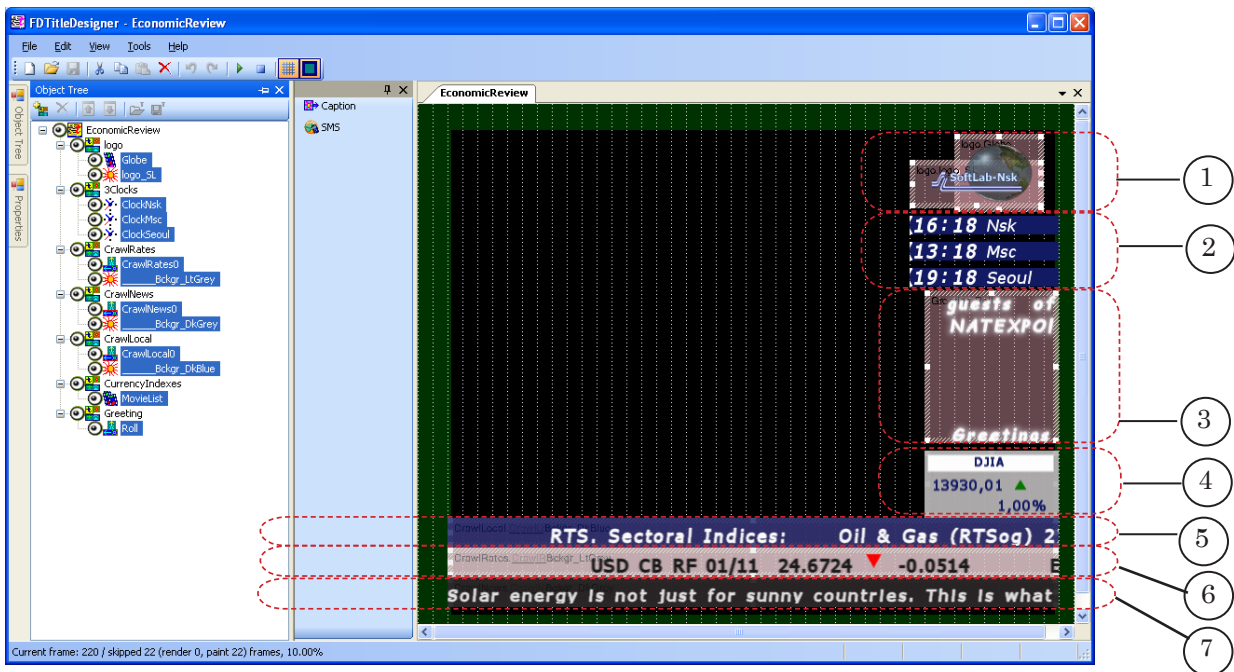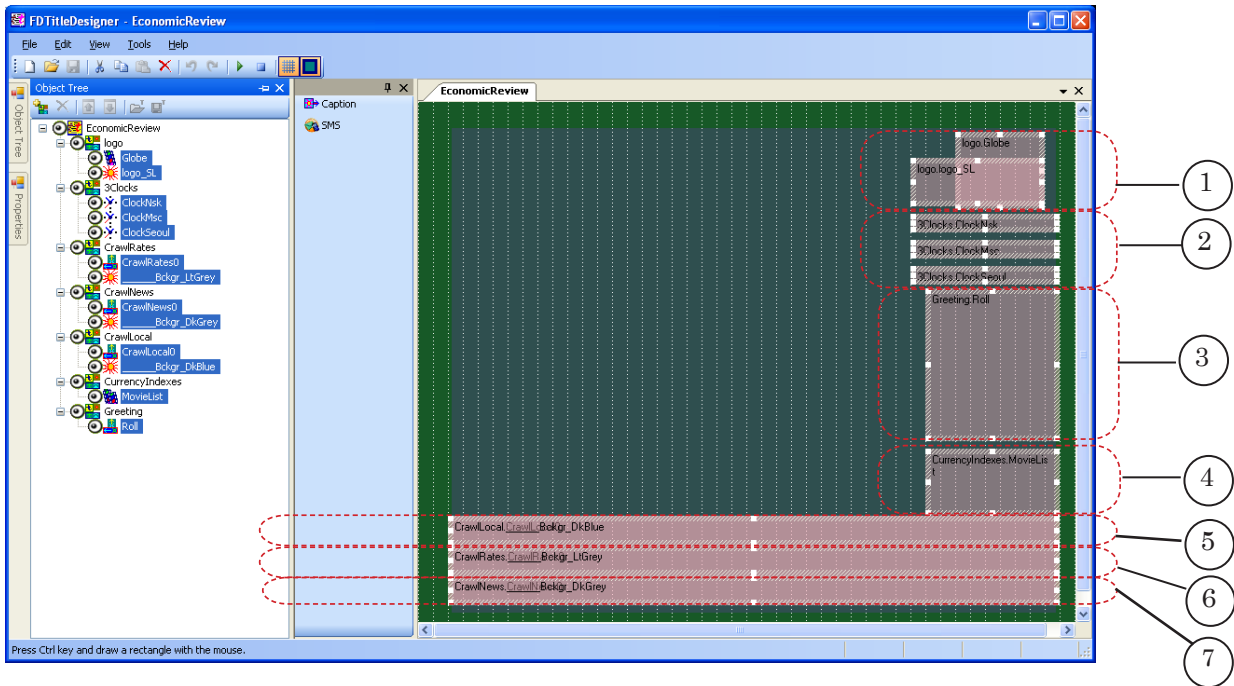
2.2. Title elements of a Clock type

The 3Clocks title object has 3 title elements of the Clock type that display time in Novosibirsk (clock_Nsk), Moscow (clock_Msc), Seoul (clock_Seul). Moscow and Seoul time offsets are displayed relatively Novosibirsk time zone (GMT+06:00 time zone).

Task file creating for title elements of the Clock type is made via the TVClock program.

Time display is set by means of Specific Clock properties as Time source, Mode of timing, Start time.

The table below contains information on properties values of every element.

Element name	Displayed time	Specific properties		
		Mode of timing	Start time	Time source
clock_Nsk	Current time	Current time	00:00:00	System time
clock_Msc	Current time at 3 hours back offset	Current time with offset	21:00:00	System time
clock_Seoul	Current time at 3 hours forward offset	Current time with offset	03:00:00	System time

2.3. Title element of a MovieList type

In the Indices_1 information block 6 images with the information on stock quotes and market indices are displayed by turn.
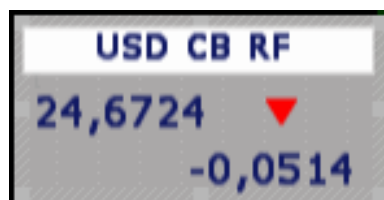
Demonstration of this block is made by means of the MovieList title element type with the indices name (the Currency_Indices title object).

The task for this element is the StatTitles\currency.SLMovieList file. This is an XML file that contains TGA files list with such properties for its demonstration as duration, fade in and fade out.

The currency.SLMovieList task file is made via the FDMovieList Editor program designed for the task of the MovieList title elements type developing and editing.

Loop the indices title element task to demonstrate images continuously.

2.4. Scrollable crawl line

Four title elements of the RollCrawl type are used in this sample.
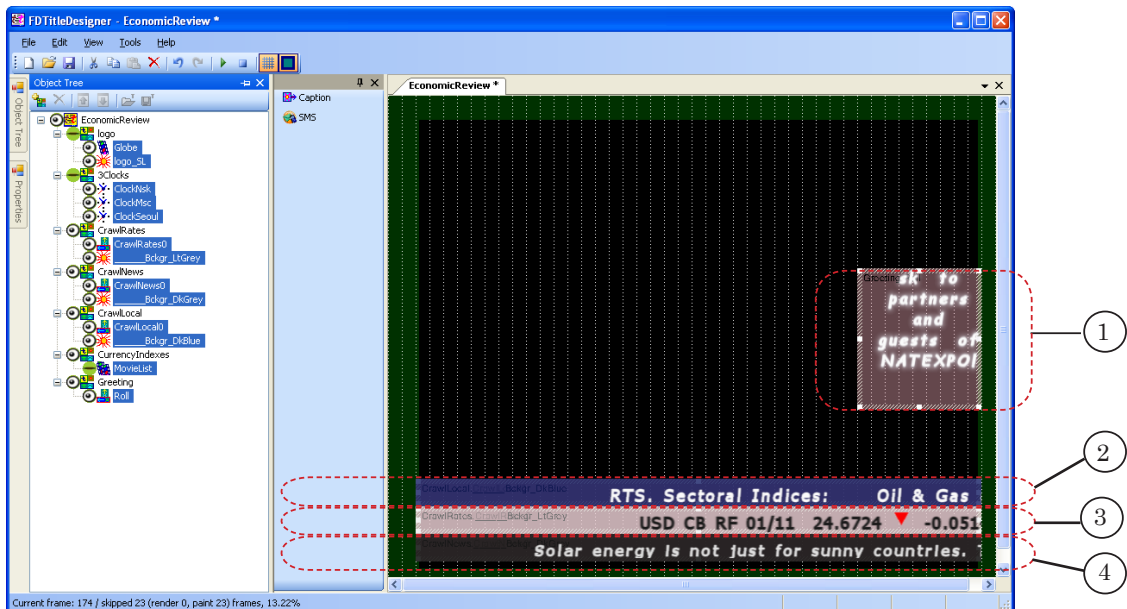
Tasks for all elements of the the RollCrawl type are looped i.e. after the last advertisement the first one comes.

To distinguish scrollable crawl lines (2–4) visually background elements of different colors are used. Also, for the same purpose text can be designed by means of different styles and moving with different speed.

The table below contains information on elements of the RollCrawl type settings.

Picture element number	Element name	Speed (px per frame)	Spacing (space between ads horizontally/vertically in px)	Style collection files
1	text_greeting	1,5	70	efc\forGreeting.efc
2	text_price	2,5	50	efc\DarkBlue_Local.efc
3	text_rates	2,3	10	efc\Grey_signs.efc
4	text_news	3	50	efc\ligthGrey.efc

Useful Technique of Setting Different Spaces Between RollCrawl Ads

During the title project demonstration all scrollable crawl line ads are displayed with the same intervals set via the Spacing property. Sometimes there is a necessity to increase the interval between some ads of one scrollable crawl line.

It is shown further how it could be done using the sample with scrollable crawl line containing messages about indices and stock quotes (1).
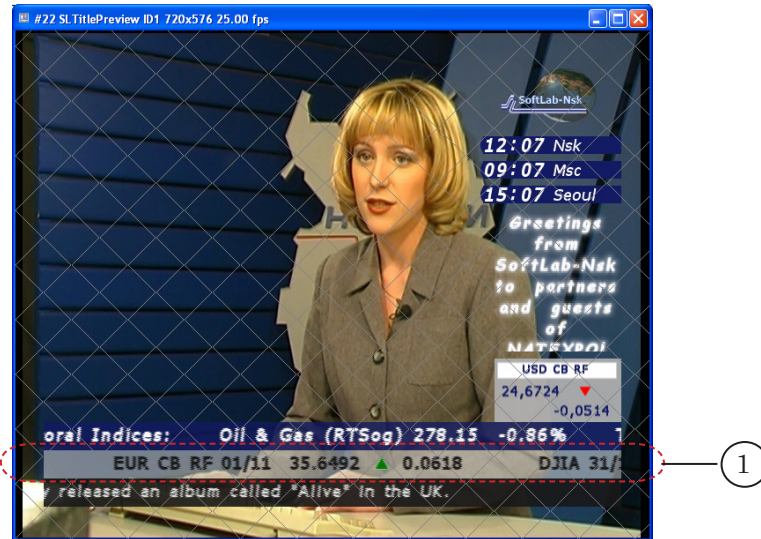
In the scrollable crawl line with information on indices and stock quotes every information message consists of 3 parts (pictures below):

1. Currency name (index) and its rate (1).

2. Mark denoting exchange rate variation (2).

3. Variation of exchange rate value (3).

Every part of information message in the finance.spt task file is set as a separate advertisement.
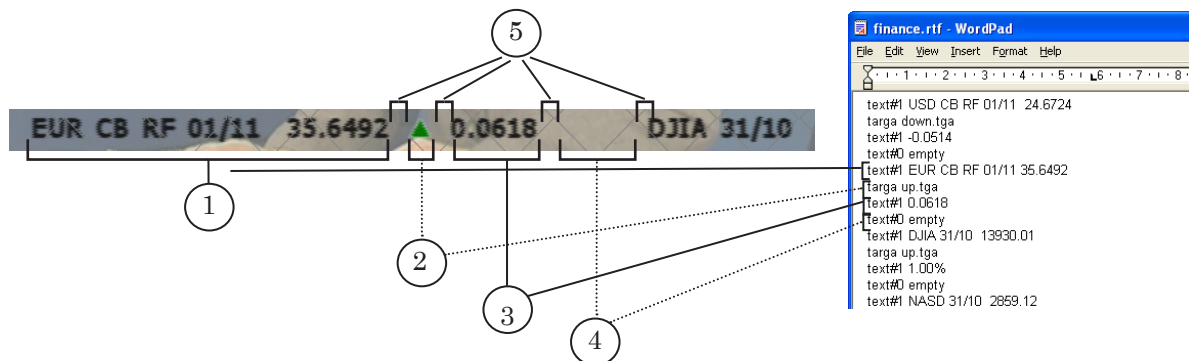
To differentiate messages logically the space between messages is more than the space between separate ads within one message. To leave the space create additional advertisement (4) after the last advertisement of every message (3).

The text of this advertisement contains set of any symbols. Space of this set is corresponded to the space duration between messages (in our sample this is the word «empty»). As the text style of the additional advertisement the style with a transparent fill element is selected (style with 0 index in our sample). Use the Forward Titling program to create text style collection. This program is a graphic editor included in the ForwardT Software package.

Schedule

During the EconomicReview sample demonstration the EconomicReview.air schedule is loaded in the FDOnAir program. To view the EconomicReview.air file open any text editor e.g. Notepad.

Pictures below show schedule in table (in the FDOnAir window) and in text format.

The schedule consists of 2 command blocks.

The first block (1) is started with the Wait previous command (⬆), then follows Title object On commands (T) that transmit Logo, Clocks, Crawl_news, Crawl_Rates, Crawl_Stock_price, Currency_Indexes, Crawl_Greeting title objects in «On» mode.

The second block (2) starts with the Wait previous command (⬆) and finishes with the Repeat current block command ( ). Cyclic block commands execution is made via these options.Via Play video clip commands ( ) Dictor.avi and Afishka.avi video clips begin playing sequentially.

For more informtaion on FDOnAir commands, see "FDOnAir Commands. Broadcast Automation. User's Guide".

Main Steps for Sample Creating

An approximate workflow for the EconomicReview Sample designing is given in the table below.

№	Executed operation	ForwardT Software package application	Outcome
1	Creating of style collection files for RollCrawl title elements	Forward Titling (graphic editor)	efc*.efc
2	Creating of graphic files (images)	Forward Titling (any graphic editor)	spt*.tga StatTitles*.tga StatTitles\logo.png
3	Creating of task for the RollCrawl title element	Notepad text editor	spt\world_news.spt
4	Creating of task for the MovieList title element	FDMovieListEditor (task editor for the MovieList title element)	StatTitles\currency.SLMovieList.
5	Creating of clock project	TV Clock (Clock editor)	nsk_tah.clc msk_tah.clc seoul_tah.clc
6	Creating of title project	FDTitle Designer (title project editor)	EconomicReview.SLTitleProj
7	Creating of schedule	FDOnAir (program for broadcast automation on the FD300 board basis)	EconomicReview.air

* – denotes all files in the folder with the specified extension

For detailed information, see appropriate User's Guides which can be loaded at http://www.softlab-nsk.com/docs.html

Useful Links

ForwardT Software set: description, download, documentation, solutions

http://www.softlab-nsk.com/forward/index.html

Support

e-mail: forward@sl.iae.nsk.su

       forward@softlab-nsk.com

       forward@softlab.tv

Forum

http://www.softlab-nsk.com/forum (currently available in Russian only)

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