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1. General
- 1.1 New functions
2. Installation
- 2.1 Resource requirements
- 2.2 Hardware requirements/support
- 2.3 Software configuration
- 2.4 Additional installation information
3. Technical Information
- 3.1 Information for product use
- 3.2 Obsolete functions and those to be discontinued
- 3.3 Incompatibilities
- 3.4 Restrictions
- 3.5 Procedure in the event of errors
4. Documentation
5. Patents and Opensource use

1. General

The file contains important information, which is not noted in the manuals or Product Information Sheet, for using WebTransactions V7.1A00 for openUTM under the Windows 2000/2003 operating system.

This delivery unit is a licensed product and the product may only be used with the number of licenses purchased.

WebTransactions can be used to connect existing openUTM applications to the World Wide Web (WWW). To optimize your application user interface and dialog for the WWW, you can either take over existing formats after conversion or program HTML masks. You can also create an HTML interface for new applications to allow the user to control the application and data output via a WWW browser. The WebLab development environment is provided for this purpose. WebTransactions is also suitable for client/server applications: it provides the link between the server application and client browser.

With the functions for dialog reengineering, dialog sequences can be combined or separated and therefore restructured more ergonomically without having to modify the logic or the data structures of the underlying host application. The user-friendly development environment WebLab is available for all development steps.

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1.1 New functions

1.1.1 UNICODE Support

WebTransactions for OSD create data encoded in UTF-8, which is passed straight through to the browser and back to the Unicode-application.

1.1.2 Create new system object attributes

- global system object attribute LT_REPLACE_STRING
- system object attributes COMMUNICATION_FILE_NAME and COMMUNICATION_FILE_TYPE for the http hostadapter

2. Installation

2.1 Resource requirements

Necessary main memory (RAM) (per current user):	3 MB
Required main memory (RAM):	64 MB
Required hard disk space:	18 MB

2.2 Hardware requirements/support

WebTransactions V7.1A00 for openUTM can be used on all systems on which Windows 2000/2003 will run.

WebLab can be used on current Windows 32-bit systems.

2.3 Software configuration

The following products are required for using WebTransactions V7.1A00 for openUTM:

- Windows 2000 Server with service pack 3
- Windows 2003 Server

for the use of WebTransactions:

- A WWW server with CGI and/or ISAPI interface

For automatic mask conversion:

- IFG V8.1B works in any OSD, for masks with unicode fields you need IFG as of V8.3A; ftp or an equivalent product for transferring binary data from Windows to BS2000 - or openFT (is supported specifically) or
- FORMANT as of V3.1 in UNIX

For individual user exits or Java integration:

- A development environment for creating a Windows dll and/or
- JAVA as of V1.3.1

An application to be linked in must run under

- openUTM as of V4

2.4 Additional installation information

WebTransactions (Windows) for openUTM is available in the Internet.

Please refer to the delivery information for the address.

WebTransactions is also available on CD on request.

Please contact via eMail WebTransactions@fujitsu-siemens.com.

Installation is described in the WebTransactions manual "Connection to openUTM Applications via UPIC", in chapter 2.

If you need only the BizTA runtime-system and do not run a web server you can give any existing folder e. g.: C:\Temp when the document root folder and the CGI folder is prompted.

If you want to install only parts of the product (WebTA runtime-system, BizTA runtime-system or demos) within a silent-installation they must be given with the parameter ADDLOCAL.

"Runtime" for the WebTA runtime-system, "BizTARuntime" for the BizTA runtime-system and "Demos" for the demos.

Example: ADDLOCAL="Demos, Runtime"

A license key is required in order to be able to set up the licenses.

Use the process that is described under Licenses in the WebTransactions Administration.

The WebLab71.msi file is stored in the webtav71 subdirectory in the document root directory of the Web server. To install WebLab local or on a client machine (Windows 32-bit), use a Web browser to download this file and then start the installation. You can download the file from the website : <http://<computer>/webtav71>.

All settings of the administration are retained during uninstalling.

This concerns the files <installation_path>/config/wtaccess containing the administration dates of the the management of the identification, the access and the applications and it concerns as well all files for cluster <installation_path>/config/cluster/*. If necessary delete these files after the deinstallation.

3. Technical Information

3.1 Information for product use

Security Settings in Windows 2000/2003

For the use of WebTransactions access rights are needed for some files and folders. This paragraph describes which authorizations are to be set for which files and folders.

First you have to know the user-context of the webserver you use with WebTransactions. If you use the Microsoft Internet Information Server the standard pre-defined users are IUSR_<computername> for cgi and/or IWAM_<computername> for ISAPI. This webserver authorization must have access rights for the following files and folders (NTFS - file system).

After installing WebTransaction (with Administrator rights) WebTransaction uses the following folders:

- WebTransactions installation folder
- pool folder for base directories
- document root folder of the webserver

The installation folder of WebTransactions contains

- executable files (e.g.: <installation folder>\lib\WTHolder.exe) which need the right for executing files
- configuration files (e.g.: <installation folder>\config\wtaccess) which are read and written
- folders (e.g.: <installation folder>\admin\tmp) in which files and subfolders can be created, read, written and deleted.

Permissions needed for the subfolders/files of the installation folder:

(not specified subfolders need read-permissions only)

folder	permissions
<install>\admin\tmp\	read, create, write, delete
<install>\lic\	read, create, write, delete
<install>\cl ic\	read, create, write, delete
<install>\config\	read, create, write
<install>\config\cluster\	read, create, write, delete
<install>\diagnosi s\	read, create, write

file	permissions
<install>\lib\WTHolder.exe	read, execute

WebTransactions base directories consist of two parts in different folders connected by a symbolic link. One part will be created in the pool folder (<pool>). The other part will be created as a subfolder of the document root folder using the name of the virtual path of the WebTransactions pool. You define a WebTransactions pool and its virtual path with the WebTransactions administration.

folder	permissions
<pool>\<basedir>\tmp\ <document root>/<virtual path>	read, create, write, delete read

If you work on a basedir with Weblab (with help of WTEdit.exe) you need much more access rights than described above. For example with Weblab you create and manipulate files and Weblab reads folders to represent them in his template-tree.

During the installation the folder webtav71 is created in the document root folder of the webserver. This folder contains the WebTransactions demos files, if these were selected within the installation. This folder webtav71 needs permissions for executing, reading, writing, creating and deleting files and folders (inclusive subfolders). In order to avoid security risks, the demos should be installed only on a test computer.

folder	permissions
<document root>\webtav71\ <document root>\webtav71\<demos>\	read read, create, write, delete (*)

(*) only if you have installed the Demos
(JavaDemo, PortalDemo, ShoppingDemo)

You can set the permissions with the windows explorer. Select Properties in the Context Menu to get the Properties window. Select Security to set the permissions for this folder. Please notice that access permissions can be inherited from an superordinate folder or can be leaved to an subfolder. In Windows 2003 you have the possibility to check the effective user permissions of a folder.

Not terminated sessions can be terminated via the WebTransactions administration. The sessions cannot be terminated via the task manager.

If WebTransactions is to be used with the Microsoft Internet Information Server, the setting for the desktop heap must be increased if there are more than approx. 60 parallel users. To do this use regedt32. In the Registry in HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Session Manager\SubSystems\Windows change the SharedSection value from 1024, 3072 or 1024, 3072, 512 to 1024, 3072, 4096 and then restart the server. 4096 is now the size of the desktop heap. Please note that Microsoft points out that problems due to a wrong use of the registry editor possibly can not be repaired.

We recommend to use WebTransactions not on a Windows 2000 system with a terminal server since there the IIS gets not enough resources.

All files and directories that WebTransactions stores in the Web server's document directory are located in the webtav71 subdirectory.

The demos supplied with the product can be started with the link:
http://<Web_server_machine>/webtav71/startDemos_e.htm

Class templates delivered with WebTransactions for open UTM contain instructions for the analysis of dynamically changeable field attributes. They cover many default situations that may occur with UTM applications with dynamically changeable field attributes. They are designed for immediate use or as samples for programming of individual class templates. To improve performance, these templates should generally be adapted to the respective application and the individually used dynamic attributes. This means that they can vary for INPUT- and OUTPUT fields.

3.2 Obsolete functions and those to be discontinued

The wtOnCreate- and wtOnReceice-tags are canceled. For this functionality you can use wtOnCreateScript- and wtOnReceiveScript-tags in a more comfortable way. The wt... controll-structure-tags still work.

The java userexit interface is canceled. The java integration covers this functionality at all.

Class templates are canceled for the next version. With taggedOutput and taggedInput you can get the same functionality.

3.3 Incompatibilities

3.4 Restrictions

Using class templates with single step tracking can lead to problems.

WebTransactions for openUTM cannot be used for applications which work with FHS-DE (Dialog Extension). Please use WebTransactions for OSD in this case.

WebTransactions for openUTM does not support -(minus)formats. In this case please use WebTransactions for OSD.

When using Internet Explorer or Netscape Navigator as browser you have to use version as of 6.0 for the full functionality of cursor control.

Currently Microsoft FrontPage or Netscape Composer can not be used as HTML editor within the WebLab function 'export'. FrontPage deletes WTML commands hidden as comments (maybe this is an error in FrontPage). The Composer is not usable because it does not support form tags. The HTML editor HoTMetaL can be recommended only with restrictions since it considers WebTransactions tags as unknown HTML commands but it is possible to define this commands in HoTMetaL.

The HTML editors Dreamweaver from Macromedia and HotDog from Sausage Software can be recommended without restriction. In general, when working with HTML editors you must not use nested wt-tags.

You can find further informations about working together with HTML editors in the FAQs:

<http://www.fujitsu-siemens.com/webtransactions>

Java output to java.lang.System.out is put to stderr instead of stdout if the trace is activated.

3.5 Procedure in the event of errors

In the event of a problem, please contact the Call Management Center (CMC):

Telephone service Mon. to Sun.: 0:00-24:00 (365 days a year)

Opening times for services : Mon. to Fri. : 8:00-17:00
(except public holidays)

Phone: +49 1805 4040
Fax: +49 1805 336779

Internet:

<https://serviportal.fujitsu-siemens.com/esm/its.do>
(german and english)

<http://serviportal.fujitsu-siemens.com/de/support/services/servicefactory/sf.html>
(german)

<http://support.fujitsu-siemens.de/de/support/index.html>
(german)

<http://serviportal.fujitsu-siemens.com/en/support/services/servicefactory/sf.html>
(english)

For the purposes of diagnosis the following error documents will be required:

- address, IDENT-No., date of purchase
- A detailed description of the error condition, indicating whether and how the error can be reproduced.
- Templates and field files
- Trace (activated e.g. via WebLab)
- UPIC trace
- Files in the folder diagnosis in WebTransactions installation-path if they exist.

4. Documentation

WebTransactions for openUTM includes the following manuals:

- WebTransactions V7.0
Concepts and Functions
- WebTransactions V7.0
Template Language
- WebTransactions V7.0 for UTM
Connection to openUTM Applications via UPIC
- BizTransactions V7.0
Application Integration with Business Objects

Additional manuals:

- WebTransactions V7.1
Supplement
- WebTransactions V7.0
Access to Dynamic Web Contents
- WebTransactions V7.0
Client APIs for WebTransactions
- WebTransactions V7.0
WebFrontend for Web Services and Business Objects
- WebTransactions V7.0
Master Index

These manuals can be obtained via the Internet from the following WWW address in the Manuals/FAQs area:

<http://www.fujitsu-siemens.com/webtransactions>

The manuals are in PDF format.

You can read PDF files with Adobe's Acrobat Reader which is free of charge. The appearance of the pages in PDF format is the same as you are used to from printed manuals. From the table of contents or index you can move to the specific information you require with a click of the mouse. The cross-references within the text can also be clicked.

The Acrobat Reader File/Print... command enables you to print out the entire manual or individual parts of the manual.

You can also reach the WebTransactions tutorial via the WebTransactions home page

<http://www.fujitsu-siemens.com/webtransactions>

5. Patents and Opensource use

WebTransactions	Protected by U.S. patent 6,725,254, German patent DE 198 14 859
OpenSource module License agreement	glibc GNU LGPL
OpenSource module License agreement	Zip/UnZip http://www.info-zip.org
OpenSource module License agreement	Expat (XML Parser) license contained in package (COPYING) "... Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restric- tion, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software..."
OpenSource module License agreement	BCG ControlBar Library documented in the source: "... You may use, compile or redistribute it as part of your application for free..."
OpenSource module License agreement	Aelfred (Java Based XML Parser) http://www.opentext.com/services/ content_management_services/ xml_sgml_solutions.html #aelfred_and_sax
OpenSource Modul License agreement	OpenLDAP information on http://www.openldap.org/ software/release/license.html
OpenSource Modul License agreement	OpenSSL information on http://www.openssl.org/source/ license.html