

# iBrowse<sup>™</sup> Installation – TKSQL (Updated March - 2009)

# **Required components for installing iBrowse™:**

Customer responsibility		Dealer responsibility
Required Component	Level	
MS-WIN 2000 advanced server	Server	Installation CD
MS-SQL 2000 Database	Server	
COM +	Server	
IIS (Internet Information Services)	Server	
Internet Explorer 6.0 or later	Server & Workstations	

#### The installation CD (consists of the following directories):

Directory	Description / Further details
\ Client	For TK2000 use only.
\ COM Objects	Objects to install on the server
\ IBrowse	ASP (Active Server pages) to install on the server i.e. iBrowse user interface
\ DOTNET	The installation program of Microsoft.net framework 2.0
\ Encrypt	ENCRYPT.EXE calculates the string which is used in the ibrowse.ini file
\ SQL Database	SCRIPT files to install on MS-SQL Database
\ SYSTEM32	DLL Files to install in the server's WINNT\SYSTEM32 Directory
\ TIMEKEEPER	Recent updates to <b>TimeKeeper</b> back office engine, relevant to iBrowse <sup>™</sup> gateway
\ Windows	INI File to install in the server's WINDOWS (WINNT) Directory
\ VBRunTime	
\ Misc	

<u>Note</u>: If the installation is performed on a WINDOWS 2003 SERVER, Please see the "iBrowse Installation - WIN2003 Procedure" appendix for additional system configurations.



#### Setup steps

- 1. Upgrade and Backup TimeKeeper SQL
- 2. Copy the installation disk to the server's [C Drive]
- 3. Install .NET Framework on the server
- 4. Updating the server with **COM objects** and iBrowse<sup>™</sup> **Asp**'s.
- 5. Installing a virtual directory on server
- 6. Updating the server's WINDOWS\SYSTEM Directory
- 7. Installing COM+ components on the server
- 8. Updating TK database in MS-SQL server
- 9. <u>Specifying iBrowse™ INI file</u>
- 10. Set up the IBRW User
- 11. Set up the IBR2 User
- 12. Load iBrowse™
- 13. Configure daily calculations
- 14. Troubleshooting
- 15. Appendix: iBrowse Installation WIN2003 Procedure
- 16. Appendix: Setting up iBrowse Login Based on Active Directory



# Step 1 – Upgrade and Backup TimeKeeper SQL

- 1.1 Upgrade TimeKeeper to the most recent version.
- 1.2 Backup the database before installing iBrowse.

#### Step 2 – Copy iBrowse™ installation CD to the server's LOCAL drive

2.1 Ensure that all files have both read and write attributes

**Note:** It is recommended to copy the Install folder to the main directory of the iBrowse (e.g c:\iBrowse\Install)

#### Step 3 - Install .NET Framework on the server

3.1 Run the **dotnetfx.exe** file located under the **DOTNET2** directory, click Yes to install the ".NET Framework 1.1 Package". This .NET version must be installed for iBrowse version 7.01 dated 06/08/2007 onward.

#### Step 4 - Updating the server with COM objects and iBrowse™ Asp's.

Create the following directories <u>in the server</u>: *C:\iBrowse\iBrw\_obj C:\iBrowse\iBrw\_web* 

Copy all objects from **[COM OBJECTS]** directory (i.e. iBrowse installation CD) to **C: |iBrowse | iBrw\_obj** Copy all objects from **[iBrowse]** directory (iBrowse installation CD) to **C: |iBrowse | iBrw\_web** directory

Note: After copying the files from the installation CD, ensure that all files have both read and write attributes.



## Step 5 - Installing a virtual directory on the server

5.1 Load "Internet Service Manager" or "Internet Information Services".

	ltt-offic	e - Terminal Ser	vice	s Cli	ent				
му	Document								
My	Compute					3			
					Shorte	ut t			
	٠	Windows Update			TK6V	MIN			
2.5		Programs	•	<b>(</b>	Accessories	►			
		Liograms		<b>1</b>	Administrative Tools	•	6	Component Services	
		Documents	►	<b>•</b>	Microsoft SQL Server 7.0	►	İ.	Computer Management	
				0	Internet Explorer		<b>(11)</b>	Internet Services Manager	
		Settings	•	تي:	Outlook Express		<b>B</b>	Local Security Policy	
	<b>Q</b>	Search	►		×		₽	Terminal Services Client Creator	
ΠĘ								Terminal Services Configuration	
lž		Help					Þ	Terminal Services Licensing	
18	- <del>1</del>	Run					Ðe	Terminal Services Manager	
	<u> </u>							*	
		Shut Down							
	Start	🛛 🙆 😂 🖸	J		Untitled - Notepad				<b>B</b>

Note: In case "Internet Service Manager" does not appear, install IIS.

#### In Windows XP:

Start -> Control panel -> Administrative Tools -> Internet Information Services

**5.2** Create a Virtual Directory by right-clicking on "Default Web Site" and choosing "New" and then "Virtual Directory".





Specifying virtual directory's alias:

Virtual Directory Creation Wizard	×
Virtual Directory Alias You must give the virtual directory a short name, or alias, for quick reference.	(J)
Type the alias you want to use to gain access to this Web virtual directory. Use th same naming conventions that you would for naming a directory.	e
Alias: ibrowse	
< <u>B</u> ack <u>N</u> ext> (	Cancel

Specify the iBrowse<sup>™</sup> WEB directory i.e. in which iBrowse<sup>™</sup> files reside:

Internet Information Services	<u>_   ×</u>
Action View I ← → I ഈ 🗔 😥 I 🖳 I ▶ 🔳 II I	
Tree Virtual Directory Creation Wizard	tatus
Web Site Content Directory Where is the content you want to publish on the Web site?	
Enter the path to the directory that contains the content.	
C:\ibrowse\ibrw_web      Browse	
Back     Next>     Cancel       Back     Next>     Cancel	Þ



Specify the following permissions :

Virtual Directory Creation Wizard	The second second second second second	×
Access Permissions What access permissions do you want	t to set for this virtual directory?	(D)
Allow the following:		
<b>I</b> Read		
✓ Run scripts (such as ASP)		
Execute (such as ISAPI application	ns or CGI)	
<u>∏ W</u> rite		
E Browse		
Click Next to complete the wiza	rd.	
	< <u>B</u> ack <u>N</u> ext >	Cancel



#### Step 6 - Updating the server's WINDOWS | SYSTEM Directory

Copy all files from the server's *..* |*iBrowse*|*Install-set*|*System32*|*SQL* to the server's .. |*WINNT*|*System32* directory. As a result, the following files will be added to the .. |*WINNT*|*System32 directory:* 

L63\_32.DLL, LAVLIB6.DLL, LAVDLL32.DLL

<u>File Edit View Favorites (</u>	[ools <u>H</u> elp		
🗘 Back 🔹 🔿 👻 🔂 Sear	ch 🕒 Folders 🎯 History	N 2 2	S 100 m +
Address 🗀 C:\WINNT\system32			- PG
	Name 🛆	Size	Туре
	🔊 wsock32.dll	22 KB	Application Extensio
	🔊 wtsapi32.dll	15 KB	Application Extensio
system32	🔊 wupdinfo.dll	26 KB	Application Extensio
	🌯 wupdmgr.exe	47 KB	Application
2 items selected.	🔊 xactsrv.dll	91 KB	Application Extensio
Tabal Ella Circo 1 401 401 hodar	📩 xcopy.exe	28 KB	Application
Total File 5/26: 1,601,631 Dytes	🔊 xenroll.dll	109 KB	Application Extensio
L63_32.DLL	🔊 ×iffr3_0.dll	627 KB	Application Extensio
LAVLIB6.DLL	S xoleblp.dll	18 KB	Application Extensio
2	L63_32.DLL	1,189 KB	Application Extensio
	LAVLIB6.DLL	377 KB	Application Extensio
			•

#### Step 7 - Installing COM+ components on the server

7.1 Load "Component Services":





7.2 Open a new application:

Component Services	×
Console Window Help	_0×
Action View 🛛 🗢 🔿 🔁 💽 🗙 🚰	
Tree	COM+ Applications 6 object(s)
Console Root	COM+ QC Dead Let COM+ Utilities IIS In-Process IIS Applications Out-Of-Pro
COM+ Ar New COM+ Ar New COM+ View COM+ View IIS Ir New Window from He IIS O I	Pre Utilities System Application

7.3 Select "Create an empty application"

Please choo empty applio	ise whether you want to install a pre-built application or create an ation.	3
	Install pre-built application(s).	
	Create an empty application.	
Computer:	My Computer	



7.4 Name the application "IcClock"

Create Empty Application		1
Please specify the name of the	e new application.	5
Enter a name for the new application	m:	
IcClock	$\mathbf{>}$	
- Activation tupe		
C Library application Components will be activated	d in the creator's process.	
Server application     Components will be activated	d in a dedicated server process.	
	Z Back Nev	th Cancel
	V DOOK MEN	Cancer

7.5 Set the application identity to "This user":

Choose "This User", set the username and the password to "iBrowse" (or any other username and password defined on the server or on the network). The TK COM objects will be loaded on the server using this user's privileges. When done click Next.

Welcome to the COM+ A	pplication Install Wizard	×
Set Application Identity Please specify the app	ication identity.	5
Account The application identity w will run under this accoun applied to each application Interactive user - the w Interactive user: User: Password: Confirm password:	ill be set to the following account. Components in the application t. If you are creating more than one application, this setting will be n. current logged on user TKUSER Browse ******	]
	< Back Next > Cance	!



**Note:** The access to the application directory (TK programs) must be set as UNC (instead of "traditional" drive mapping, as drive mapping does not work when the server is in log-off mode).

#### "IcClock" will be created:

Image: Second secon	Component Services			
Components  Compon	Component Services  Component Services  File Action View Window Help  Component Services  Component Servic	Components Legacy Components	Roles	
t the second s	Event Viewer (Local)     Services (Local)			



7.6 IT Department security configuration requirements for COM+ application user

Application identity user must be configured in order to run iBrowse on situations the server is in log-off mode.

The minimum security requirements for the application user should be configured **by the IT department** as follow:

		Privileges ii pro	n installation cess	Privileges afte	er installation	
Member of	, I	Administrators (L equired machine enough)	ocal for the es should be	IIS_WPG, Users, Distributed COM Users, Simultaneously logged-in in the entire Farm.		
	Client	COM+	ТК	SQL2005	IIS	
Member of (By Servers)		Distributed COM Users	Users	Users	IIS_WPG, Users	
Share Folder			TKSQL, all the rights			
Remote Registering			TK Components			
Virtual Printer	Acrobat Reader	PDF Spooler, Port Configuration as user				
Virtual Directory					IIS definitions	
COM+		COM+ Security DTC, COM+ Installed			Proxy installation including dependency file in system32	
Data Accessibility				Local account as administrator of database		
Packets		VB Runtime	VB Runtime		2.0, ASP.NET	



#### 7.7 Create a new component

Component Services	
∫ Console Window Help	
Action View ↓ ← → 1 € ▼ × 1	「 ②   含   色   風   🏊 に 能 価 商
Tree	Components 0 object(s)
Components Compon	ere Component

# 7.8 Install the new component(s)

Please choose that are alread	a Component whether you want to install a new component or install components y registered.
39	Install new component(s).
<b>M</b>	Import component(s) that are already registered.
	Install new <u>e</u> vent class(es).
Application:	- IcClock
Computer	My Computer



7.9 Select all files from [.. |iBrowse|iBrw\_obj] directory; Click Open

Select files to i	nstall						? 🗙
Look <u>in:</u>	in sol		1	•	🗢 🗈 💣	<b>.</b>	
My Recent Documents Desktop	ICRepSql.dll ICBOL.dll Employee_IBRO DLLTemplate.d	OWSE.dll					
<i>My</i> Documents							
My Computer							
<b>S</b>							0
My Network Places	File name:	"IcRepSql	I.dlimmCBUL.dli	····Employe	e_IBHUW		Upen
	Files of type:	Componer	nt Files (*.dll;*.tlb	) )	<b>•</b>		Lancel

# 7.10 Run the Installation

Welcome to the COM Component Install Wizard									
Install new components Please specify the file(s) that contain the components you want to install.									
Click Add to choose the file(s) tha Files to install:	t contain the	e components you	u want to	install.					
File		Contents		Add					
D:\IBrowse Install Version 2\Cor D:\IBrowse Install Version 2\Cor D:\IBrowse Install Version 2\Cor Components found:	D:\IBrowse Install Version 2\Com Objects components, typeLib D:\IBrowse Install Version 2\Com Objects components, typeLib D:\IBrowse Install Version 2\Com Objects components, typeLib Remove								
Component	Properties	Interfaces		🔽 Details					
clsGetICBol	COM+	found							
clsGetICDal	COM+	found							
clsGetTrans	COM+	found							
cisPutiCBUL	COM+	found	-						
		tound	_						
< Back Next > Cancel									
			1						



# 7.11 Select "FINISH"





#### <u>STEP 8- Update the TK DB: Load Query Analyzer, and run "STOREPROC" under .. \SQL</u> <u>Database \SQL:</u>



**Note:** In the end of the process, a message indicating success/failure will appear.



#### <u>Step 9 - Specifying iBrowse™ INI file</u>

# 9.1 Copy IBROWSE.INI from [C: | iBrowse | Install-set | Windows] directory to the server's ...\WINDOWS directory e.g. .. | WINNT|

## 9.2 Edit IBROWSE.INI:

#### IBROWSE.INI Consist of 7 lines:

- Line (1) [SyS\_PARAM] : This is NOT to be changed.
- Line (2) [Data source] : The SQL server's name.
- Line (3) [Data base type] : 0.
- Line (4) [Database] : TKSQL DataBase Name.
- Line (5) [Data path] : A blank directory, must be under the TK programs directory (Used for reports).
- Line (6) [Language] : The language selection relevant ONLY to the login screen.
- Line (7) [SQL\_PARAM] : A String represents the username and password (encrypted) in SQL

🐻 IBROWSE.ini - Notepad 📃 🗖	×
File Edit Format View Help	
[SYS_PARAM] Data_Source=sql-server DATA_BASE_TYPE=0 DATABASE=TKSQKL-DB DATA_PATH=C:\TKSQL\REPORTS  LANGUAGE=ENGLISH	
SQL_PARAM=F56E6CEEBED3AECF5F834D346E61CBA563746E762D1026F3C751027E23C	
Ln 5, Col 27	

In order to generate the string which represents the username and password in **MS-SQL**, run *C: iBrowse Install-set Encrypt Incrypt.exe.* Specify the user name, password, password reconfirmation and "[Encrypt]" :

🛢 Encrypt User Name	e and Password
UserName	88
Password	
Password	
F16221438DDC056E2B74	47FE 34802B CD E D 0CE 9E 1 B D 02A88E 1 360A 26E C 11 9626C83C8828089681 68C5921F0041 B 98E 4920252E 87F0A8229E E 3E 31 E 97A6464E 6973B 5C0759CA 47F46D 7C6
	Encrypt

The String will be created in the last line. Copy the string (using COPY and PASTE commands) to the IBROWSE.INI file relatively i.e. to the [SQL\_PARAM] line.



#### <u>Step 10 – Setting up the IBRW User</u>

Setup a new user (i.e. **IBRW**) within TimeKeeper (i.e. **USERS.EXE** program). The definitions for this user are irrelevant as it simply uses for **AUDIT TRAIL** and **Reports** (as per changes made in iBrowse module). Ensure that "System Administrator" option will be de-selected for iBrowse user and that the Language field matches the primary language of the TimeKeeper as set in the SYSCNF file.

😽 Users			_	
	-	User Name		
		JIBRW		
General Parameters	Functions	Screen Builders	Data Base Access by	Impro System
Password	****	 Confirm Pa	assword ××××	
$\parallel \longrightarrow$	System Administra	tor 🔲 IBrows	e Supervisor	
Group Name	ibrw 💌			
Data Path	DATA		•	
Language	English	$\Box \leftarrow$		
Expiration Date	01/01/2010	13		
Configuration Profile	0	<u> </u>		
Groups Definition				_
Employee Num	iber	Employee Last Name	Employee	e First Name
0	•			
2			B. K. M	 <b>N</b> +
<u>?</u>			🛅 🖳 🗖	

## Step 11 - Setting up the IBR2 User

In case a second language is used, an additional user needs to be defined as in step 10, but with the required second language chosen.

😾 Users				_ 🗆 🛛
	(	User Name	$\mathbf{)}$	
Data Base Acces	ss by	Impro System	Absence Planning (A	.PM)
General Paramete	#S	Functions	Screen Builders	
Password	ystem Administrat	Cor cor IBro	nfirm Password	
Group Name	ibrw 🔹			
Language	•	French Can authorize st	hift STD excess in TSM No	•
Expiration Date	01/01/2010			
Configuration Profile	0	<b>T</b>		
Groups Definition				
Employee Numb	ber	Employee Last Name	Employee First Name	
1599	▼ ZHAO	1	▼ RUJIN	
?		H A F H	🖹 🚊 🝘 💊	Ŀ



# <u>Note</u>: If the installation is performed on a WINDOWS 2003 SERVER, Please see the "iBrowse Installation - WIN2003 Procedure" appendix for additional system configurations.

#### <u>Step 12 – Load iBrowse</u>™

In order to load iBrowse<sup>™</sup>, specify the following:

## http://SERVERNAME/Ibrowse e.g. http://TimeTECH/Ibrowse

	LAVIE Timetech
TK's Internet Gateway	2 2 3 2 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
User Name: Password:	Logon New Password Version 4.01 - 25/10/2004
E Done	Second

Once the web page is loaded, the installation is complete. Proceed to **iBrowse Set-Up (TKSQL)** for system configuration.

#### <u>Step 13 – Configure the Daily calculations</u>

The daily records coming into the daily file from iBrowse are not being calculated and therefore the records remain unclosed (colored red). In order to resolve this, an automated daily calculation needs to be defined and activated via scheduler.

## 13.1 Define the Daily Calculation Profile



Define a daily calculation (by Date) and make sure all employees are chosen. Add the following condition: **DAILY->Upd\_code=1** to make sure only unclosed records will be calculated. Please note that the date range definition is determined from within the command line and therefore is meaningless in the select screen.

ŝ,	Numbe	: 12 IBrow	se Daily	Calc Work Mod	le: Calculat	e By Date				
Fi	e Date	Employee	Plant S	iite Departmenl	: Contract	Sort Code	Day Type	Absence Code	Error	Begin
	?			¥	<b>I</b> ∙					
	Date Fi	om <u>20/11/2</u>	<u>006</u> To <u>2</u>	0/11/2006						
	Employe	All Recor	rds Selecte	ed Contract	<u>All Reco</u>	rds Selected				
	Plant	<u>All Reco</u>	rds Selecte	ed Sort Code	<u>All Reco</u>	rds Selected				
	Site	<u>All Reco</u>	rds Selecte	ed Day Type	<u>All Reco</u>	rds Selected				
	Departm	ent <u>All Reco</u>	rds Selecte	ed Absence C	ode <u>All Reco</u> r	rds Selected				
				Error	<u>All Reco</u>	rds Selected				
	DAILY->U	pd code=1			Condition Ex	pression				
_										

#### 13.2 Define a Batch file

Define a batch file with the below command, set the days range to calculate (in the example below the calculations will be carried out 7 days back till the current day).

🐌 Daily Calculation.bat - Notepad	
File Edit Format View Help	
C\TKSQL\Glob_UpdautoSQL 9999 12 range=-7,0	<b>A</b>
	<b>T</b>

Note: In order for all employees to be calculated, please use a user that has access to all employees.

#### 13.3 Define a daily task in the scheduler for the Batch file

Daily Calculation	? X
Task Schedule Settings	
At 1:18 AM every day, starting 20/11/2006	
Schedule Task: Start time: Daily I:18 AM Advanced	
Schedule Task Daily Every 1 day(s)	



# STEP 14 - Troubleshooting

- 1. " Login Failed for user "iBrowse\_user". Reason: Not associated" while loading iBrowse web site:
  - a. The user is not defined in MS-SQL database correctly. In most cases, the cause is defining the user in "windows authentication" work mode. Load **MS-SQL Enterprise manager**, enter the server properties, go to the security tab and ensure selecting "MS-SQL Authentication" work mode.

SQL Server	Properties (Configure)	- SQL-SERVER\I	NTELSUP 🔀
Server Setti General	ings   Database Settings     Memory   Processor	Replication Ac Security	tive Directory
Security	SQL Server provides authent accounts and a named SQL	ication based on Wir Server login ID and p	ndows password.
	Authentication:      SQL Server and Wind	ows	
	C Windows only Audit level:		
	<ul> <li>None</li> </ul>	C Failure	
		C All	
	Uwnersnip chaining: Allow cross-database	ownership chaining	
Startup s	ervice account		
38	Start and run SQL Server in t	he following account	:
100	C System account		
	C This account		
	Password:		
	ОК	Cancel	Help

- b. In addition check that the **SQL\_PARAM** field in the IBrowse.INI file has the correct values. Do this by making sure the correct username and password have been encrypted (please see step 10 for more details).
- 2. " Specified SQL Server not found" " while loading iBrowse web site:
  - a. Make sure the user is in "windows authentication" work mode (see trouble shooting section 1.a in the).



b. The user is not defined in MS-SQL database as **DB\_OWNER.** Open the Enterprise Manager, open the TK DB, open the Users and go into the user's properties:

🚡 SQL Server Enterprise Manager - [Console Root)	Wicrosoft SQL Servers\SQL Se	erver Group\S	SQL-SERVER\INTELSUP (	_ 🗆 🛛
<ul> <li>Bile Action View Tools Window Help</li> <li>← → □</li> <li>Image: Non-State State Stat</li></ul>	<b>E</b>			_8×
SQL Server Group EVAL-G (Windows NT) SQL-SERVER (Windows NT) Databases Comparison of the server	Users 1 Item Name A New Database Us All Tasks Delete Properties Help	Login Name	Database Access Permit	
Opens property sheet for the current selection.	]			

Make sure db\_owner is checked:

Database	User Properties - dbo 🛛 🔀
General	
	Login name: sa <u>Permissions</u> User name: dbo
<u>D</u> atabas	e role membership:
	Permit in Database Role
	bublic db_owner
	db_accessadmin         db_securityadmin         db_dtladmin         db_backupoperator         db_datareader         db_datawriter         db_denydatawriter
	Properties
	OK Cancel Apply Help



3. When the iBrowse is loaded or being operated, Error 326 is received



The above Error message normally indicates that one of the tables is out-of-date (in most cases the above refers to CNFPROF or to out-of-date STORED PROCEDURES. Resolution: run Compare DB.

4. When the iBrowse is loaded, Error 429 is received



The above Error message normally indicates one of two:

- a. The COM objects are not installed. Resolution: COM Objects need to be installed.
- *b.* The server is logged off. Resolution: An Identity needs to be defined to a permanent user as follows:
  - *i.* Open the component services, right-click on icClock and chose Properties.





*ii.* Click on the Identity tab, chose "This User", enter a valid username and password defined on the server or on the network. The TK COM objects will be loaded on the server using this user's privileges. When done click Apply and OK.

icClock Properties			? 🛛
Advanced	Dump	Pooling &	Recycling
General Security	Identity	Activation	Queuing
This application will run und	er the following a	ccount.	
C System Account:			
C Interactive user -	The current logge	ed on user	
C Local Service - B	uilt-in service acc	ount	
C Network Service access	- Built-in service a	account with net	work
C Local System - Co	omplete access to	local machine	
This user:			
User:	amip		Browse
Password:	*****		
Confirm password:			
Server applications	cannot run under	r system service	accounts.
	ОК	Cancel	Apply

**Note:** This user needs to have read & write access to the TK programs directory (e.g. C:\TKSQL). This user is a regular user and not an Administrator or a Privileged user.

The access to the application directory (TK programs) must be set as UNC (instead of "traditional" drive mapping, as drive mapping does not work when the server is in log-off mode).



5. <u>When the iBrowse is loaded, Error 13 is received</u>



The above Error message normally indicates a security problem running the COM Objects and the IIS.

Resolution:

a. The <identity impersonate="true" /> needs to be added to the web.config file (located under C:|IBrowse|ibrw\_web) as follows:



- b. If the problem persists, open IIS and set iBrowse to enable Anonymous access:
  - 1. right-click on iBrowse and chose properties.



110, YIGAL ALON St. TEL AVIV, 67891 ISRAEL. TEL: 972-3-5682222, FAX: 972-3-5617070 WEB SITE: www.lavietimetech.com E-MAIL : international.support@lavietimetech.com



2. Click the Directory Security tab and then click Edit.



#### 3. Specify the user for running the COM objects

Authenticat	ion Methoo	ls			×
🖂 🗹 Enable	e <u>a</u> nonymous	access			
Use the fo	ollowi <del>ng Winc</del>	lowe use	r account	for energy	ious access:
<u>U</u> ser name Password	e: MUL	.TI-RACK	(2003\USE	R4IBROW	Browse
Authentic	ated access -				
For the fo are requir - -	llowing authored when: anonymous a access is res	enticatioi access is tricted u	n methods disabled, sing NTFS	, user name or access coni	and password
🔽 Integr	ated Windov	vs authe	ntication		
🗌 Digest	authenticati	ion for W	/indows do	main serve	rs
🔲 Ba <u>s</u> ic /	authenticatio	n (passv	vord is ser	it in clear te	xt)
.NET F	assport au <u>t</u> i	henticati	on		
Default	domain:				Seject
<u>R</u> ealm:					Select
	ОК		Cancel	!	<u>+</u> elp



#### 6. When the iBrowse is loaded, the following error is received:

🗿 An error was encountered while calling OnStartPage in ASP compatibility mode Microsoft Internet Explorer	FX
Elle Edit View Fgvorites Iools Help	- 🥂
🚱 Back • 🐑 • 💌 🖻 🏠 🔎 Search 👷 Favorites 🤣 😥 • 🌺 🕋 • 🛄 🎇 🦓	
Address 🕘 http://david-t/browse/dailyscreen/dayscreen.aspx 💌 💕 Go	Links »
Coogle - 🕑 💽 Search - 🚿 🔊 O blocked 🧏 Check - 🌂 AutoLink - 🖓 AutoLink - 🖉	
Server Error in '/ibrowse' Application.	~
An error was encountered while calling OnStartPage in ASP compatibility mode.	
Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.	
Exception Details: System Web HttpException: An error was encountered while calling OnStartPage in ASP compatibility mode.	
Source Error:	
An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.	
Stack Trace:	
[HttpException (0x80004005): An error was encountered while calling OnStartPage in ASP compatibility mode.] System.Web.Util.AspCompatApplicationStep.OnPageStartSessionObjects() +783626 System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) +2505	
Version Information: Microsoft NET Framework Version: 2.0.50215.44; ASP NET Version: 2.0.50215.44	_

The above Error message normally indicates that the iBrowse web site is defined as ASP.NET version=2.

Resolution:

- a. Opening the IIS, right-clicking on iBrowse and choosing properties.
- b. Clicking on the ASP.NET tab
- c. Changing the ASP.NET Version to 1.





# 7. iBrowse is not loaded (.NET Framework was not properly installed)

Open the IIS, right-click on the iBrowse virtual directory and choose properties.



Click on the Configuration button

ibr	owse Properties		3	? ×
	HTTP Headers Virtual Directory	Custom Errors Documents	ASP.NET	
	When connecting to this re A dir A dir A sh A sh A rea	source, the content should come ectory located on this computer are located on another compute direction to a URL	ə from:	
	Local Path: C:\IBr C:\IBR C:	owse'\ibrw_web	Browse	
	Application name: ib Starting point: <d< th=""><th>rowse Default W\ibrowse</th><th>Remove</th><th></th></d<>	rowse Default W\ibrowse	Remove	
	Execute Permissions:	cripts only	Configuration	

Make sure the ".aspx" extension is available.

Appli	cation Conl	figuration		×
Ma	ppings Opti	ions Debugging		
<u>.</u>	Cache ISA	PI applications		
Г	Application M	1appings		
	Extension	Executable Path	Verhs 🔺	
	.asa	C:\WINDOWS\system32\inetsry\asp.dl	GET HEA	
	.asax	C:\WINDOWS\Microsoft.NET\Frame	GET,HEA.	
	.ascx	C:\WINDOWS\Microsoft.NET\Frame	GET, HEA.	
	.ashx	C:\WINDOWS\Microsoft.NET\Frame	GET, HEA.	
	.asmx	C:\WINDOWS\Microsoft.NET\Frame	GET, HEA.	
	.asp	C:\WINDOWS\system32\inetsrv\asp.dll	GET,HEA.	
	.aspx	C:\WINDOWS\Microsoft.NET\Frame	GET,HEA.	
	.axd	C:\WINDOWS\Microsoft.NET\Frame	GET,HEA.	
	.cdx	C:\WINDOWS\system32\inetsrv\asp.dll	GET,HEA.	
	.cer	C:\WINDOWS\system32\inetsrv\asp.dll	GET,HEA.	
	.config	C:\WINDOWS\Microsoft.NET\Frame	GET, HEA.	
	- 22	C:\W/INDOW/S\Microsoft.NET\Erame	GET НЕА 👗	



**8**. After reinstalling Windows, the following error message shows.



Resolution:

A. Remove the ASP by running the following from your command line:

C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\aspnet\_regiis.exe -u

Run	<u>?×</u>
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	t.NET\Framework\v2.0.50727\aspnet_regiis.exe -u 🔽
	OK Cancel <u>B</u> rowse

B. Reinstall the ASP by running the following from your command line:

C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\aspnet\_regiis.exe -i



9. When trying to access iBrowse after upgrade the following error is shown:

#### Error Occurred In Server Side Script.

Error Source : *Module : [GetTcFileRS]*. Error Code Received : 3707 Cannot change the ActiveConnection property of a Recordset object which has a Command object as its source. Program Terminated.

#### Resolution:

Make sure when running upgrade to run all the SQL scripts within the SQL installation set. for example, IBROWSE INSTALL VERSION 8.06\_20080702\SQL Database\SQL

Make sure that the store\_procedure script (stored\_proc.sql) is run and that whatever script found in the Upgrade subfolder is also executed.

For example, under IBROWSE INSTALL VERSION 8.06\_20080702\SQL Database\SQL\UPGRADE

up\_cnfprof\_08062008.sql is executed.

10. When trying to access iBrowse after a new installation (or upgrade) the following error shows:

# Error Occurred In Server Side Script. Error Source : ICDAL.clsGetICDal->GetSystemRS

# Error Code Received : 3105 Multiple-step operation generated errors. Check each status value. Program Terminated.

Resolution:

This is a know issue caused when a report defined for the user's profile has a title longer than 40 characters. The error is generated with respect to the CNFPROF and is fixed for iBrowse version 8.08.01 and later. For later versions the maximum length for a report title is set to 80 characters.



# Appendix: iBrowse Installation - WIN2003 Procedure

# Setting up iBrowse – Windows 2003™

Additional instructions for IBrowse installation on 2003 server

1. IIS Parameters

1.1. Ensure that Active Server Pages and ASP.NET v.1.1.4322 under Web Services Extension defined as allowed.



Note:

These components should be installed on the server by the IT department.



# 1.2. Web Sites Properties -> Home Directory -> Configuration

	becurity	ΙЦ	IP Headers	Custom Err	ors	Service
Web Site	Performa	nce	ISAPI Filters	Home Direc	tory	Documents
The conte	nt for this re	source	should come from			
	O	A <u>d</u> irect	tory located on thi	s computer		
	о.	A share	e located on anoth	er computer		
	<u>о</u> ,	A redire	ection to a URL			
Logal path	: L				Bi	r <u>o</u> wse
Scrip <u>t</u> :	ource acces	5	🔽 Log	g <u>v</u> isits		
E Road			Tel Tel	lay this recour	re	
I Keau			l▲ Tuc	iex unis resour	00	
<u>W</u> rite			l <b>∞</b> Tuc	iex chis resour		
Directo	ry <u>b</u> rowsing		l <b>o</b> īnc			
<u>W</u> rite <u>Directo</u> Application	ry <u>b</u> rowsing settings					
<u>W</u> rite <u>W</u> rite <u>Directo</u> Application	ry <u>b</u> rowsing settings		j <b>o</b> Iur			Create
Application	ry <u>b</u> rowsing settings na <u>m</u> e:		l <b>∧</b> tin			Create
Application Starting po	ry <u>b</u> rowsing settings na <u>m</u> e: int:	<wel< td=""><td>پر پر اور اور اور اور اور اور اور اور اور او</td><td>:s&gt; (</td><td>Conf</td><td>Create</td></wel<>	پر پر اور اور اور اور اور اور اور اور اور او	:s> (	Conf	Create
Write     Write     Directo     Application     Starting po     Execute po	ry <u>b</u> rowsing settings name: int: ermissions:	<wel< td=""><td>p b Master Propertie</td><td>·s&gt;</td><td>Conf</td><td>Crgate</td></wel<>	p b Master Propertie	·s>	Conf	Crgate
Write     Directo     Application     Starting po     Execute po	ry <u>b</u> rowsing settings name: oint: ermissions:	<wel< td=""><td>b Master Propertie</td><td>:s&gt;</td><td>Conf</td><td>Crgate</td></wel<>	b Master Propertie	:s>	Conf	Crgate
Application Application Starting po Application	ry <u>b</u> rowsing settings name: pint: ermissions:	<wel< td=""><td>b Master Propertie</td><td>:s&gt;</td><td></td><td>Crgate</td></wel<>	b Master Propertie	:s>		Crgate
Application Execute pr Application	ry <u>b</u> rowsing settings name: pint: ermissions: pool;	<wel< td=""><td>b Master Propertie</td><td>:s&gt;</td><td>Conf</td><td>Crgate</td></wel<>	b Master Propertie	:s>	Conf	Crgate



Press on **"Option**" and ensure **Enable parent path**" is checked.

Ap	plication Configuration
N	Aappings Options Debugging
C	Application configuration          Image: Configuration configuration         Image: Configuration configuration         Image: Configuration configuration         Session timeout:         Image: Configuration configuration         Image: Configuration
	Default ASP language: VBScript
	ASP script timeout:
	Enable Side by Side assemblies
	Manifest file name:
	· · ·
	OK Cancel Help

# 2. COM+ Parameters:

Ensure that the parameter "Enforce access checks for this application" under "IcClock Properties , Security" is not checked.

iCclock Proper	ties			? ×	
Advance	ed	Dump	Pooling & R	ecycling	
General	Security	Identity	Activation	Queuing	
Authorizatio	on				
	e access check	ks for this applic	ation		
Security Le	vel				
C Perforr Securi securit	n access check ty property will n y call context w	s only at the <u>p</u> r ot be included ill not be availal	ocess level. on the object conte ble.	xt. COM+	
<ul> <li>Perforr Securit securit</li> </ul>	Perform access checks at the process and component level. Security property will be included on the object context. The COM+ security call context is available.				
_ ⊂ Software R	Software Restriction Policy				
🗆 Apply	Apply software restriction policy				
<u>R</u> estricti	Restriction Level:				
Authenticatio	Authentication Level for Calls:				
Packet	Packet 💌				
l <u>m</u> personatio	Impersonation Level:				
Impersonate	Impersonate 🔽				
		OK	Cancel	Apply	



# 3. Windows Components:

When working with RPC configuration (separates the SQL server from the COM server), ensure that the following items are checked:

👸 Add or Rem	nove Programs	Application Server	×
	Currently installed programs:	To add or remove a component, click the check box. A shaded box mear of the component will be installed. To see what's included in a component	is that only part , click Details.
C <u>h</u> ange or Remove	Windows Components Wizard	Subcomponents of Application Server:	
Programs	Windows Components You can add or remove components of	Application Server Console     SASP.NET	0.0 MB
Add New Programs Add/Remove Windows Components	To add or remove a component, click th part of the component will be installed. Details. Components: Accessories and Utilities Application Server Certificate Services E-mail Services Description: Includes ASP.NET, Intern Application Server Consol Total disk space required: 2 Space available on disk: 7365	Age Enable network DTC access     Proble network DTC access	0.0 WB 0.0 MB 18.1 MB 6.5 MB for distributed Details Cancel
			- 😡
			Recycle Bin
🎒 Start 🛛 🔞	) 🧑 🛛 🔀 Add or Remove Programs	🐼 Windows Component	HE 📑 🔂 🌽 16:26



4. Install IBrowse definition on server 2003:

# In server 2003 you can define separate **Application pool** for each site. Build new Application pool, and name it IBrowse.

(Application pools -> new -> Application pool).



After building the Application pool you can add this parameter in Virtual Directory Properties:

ibrowse2003 Properties	?	
Virtual Directory Documents Directory Security HTTP Headers	Custom Errors	
The content for this resource should come from:		
A directory located on this computer		
A share located on another computer		
C A redirection to a <u>U</u> RL		
Logal path: C:\ibrowse\ibrw_web	Browse	
□ Script source access     ✓ Log visits       ✓ Read     ✓ Index this resource       Write     ✓ Directory browsing		
Application settings		
Application name: ibrowse2003	Remove	
Starting point: <default site="" web="">\ibrow</default>	Configuration	
Execute permissions: Scripts only	conngaracionni	
Application pool:	Unload	
OK Cancel Appl	y Help	



#### Appendix: Setting up iBrowse Login Based on Active Directory

#### **Preface**

This configuration enables to skip the IBrowse login page and log into IBrowse automatically by identifying the current network user or by Active Directory identification.

<u>Environment</u> :	TKSQL and TK2000
Required program files:	IBrowse version 5.03 and above.
Installation:	Defining the IBROWSE.INI file and the IIS.

#### **Defining the IIS**

1. Open the IIS, Right click on Web Sites and choose Properties.





2. Choose the Directory Security tab and click on Edit.

Web Sites Properties	? 🔀	
ISAPI Filters Home Directory	Documents	
Directory Security HTTP Headers	Custom Errors	
Anonymous access and authentication control		
Enable anonymous access and edit the authentication methods for this resource.	Edit	
IP address and domain name restrictions		
Grant or deny access to this resource using IP addresses or internet domain names.		
	E dit	
Secure communications  Enable the Windows directory service mapper		
OK Cancel	Apply Help	

3. Check the Integrated Windows Authentication and click OK.

Authentication Methods				
Anonymous access No user name/password required to access this resource.				
Account used	for anonymous access:			
User name:	IUSR_ORLI-ELAZAR Browse			
Password:				
	Allow IIS to control password			
Authenticated access For the following authentication methods, user name and password				
<ul> <li>anonymous access is disabled, or</li> <li>access is restricted using NTFS access control lists</li> </ul>				
Digest authentication for Windows domain servers				
Basic authentication (password is sent in clear text)				
Default dom	ain: Select			
Realm:	hq.lavie.co.il Select			
✓ Integrated Windows authentication				
OK Cancel Help				



4. Select all nodes to be affected and click OK.



5. Open the IIS, open the IBrowse directory, right click on the UserPsw.aspx file and choose properties.

💐 Internet Information Services			
File       Action       View       Help         Internet       Information       Services         Internet       Information       Services         Internet       Information       Services         Internet       ORLI-ELAZAR (local computer)         Internet       ORLI-ELAZAR (local computer)         Internet       OPFault Web Site         Internet       Default Web Site         Internet       Panorama         Internet       Panorama <td>Name         Help.asp_old         ibrowse4.vbproj.webinfo         LoginConfNewPassword.aspx         LoginDefine.aspx         LoginNewPassword.aspx         logoff.aspx         logon.asp         logon.aspx         TimeOut.aspx         UserPsw.aspx         UserPswAD.aspx         Web.config         Web_lang.config</td> <td>Open Browse All Tasks</td> <td>Stati</td>	Name         Help.asp_old         ibrowse4.vbproj.webinfo         LoginConfNewPassword.aspx         LoginDefine.aspx         LoginNewPassword.aspx         logoff.aspx         logon.asp         logon.aspx         TimeOut.aspx         UserPsw.aspx         UserPswAD.aspx         Web.config         Web_lang.config	Open Browse All Tasks	Stati
<	WebForm1.aspx Help.asp	Delete Rename Refresh	~
Opens property sheet for the current selection.		Properties Help	

6. Open the "File Security" tab and click on Edit.



UserP	sw.aspx	Properties	? 🛛
File	File Se	curity HTTP Headers Custom Errors	
A	nonymous	access and authentication control Enable anonymous access and edit the	
	<b>C</b>	authentication methods for this resource.	Edit
FIF	address a	and domain name restrictions	
	٨	Grant or deny access to this resource using IP addresses or internet domain names.	
			E dit
S	ecure com	munications	
	<del>=</del> 0	Require secure communications and enable client certificates when this	Server Certificate
	resource is accessed.	View Certificate	
			E dit
		OK Cancel	Apply Help

7. Uncheck the anonymous user and make sure Integrated Windows Authentication is checked.

A	uthenticatio	on Methods	X	
Γ	Anonymou	Is access		
-	No user name	e/password required to access this resource.		
	Account used	for anonymous access:		
	User name:	IUSR_ORLI-ELAZAR Browse		
	Password:	•••••		
		Allow IIS to control password		
	Authenticated access For the following authentication methods, user name and password are required when - anonymous access is disabled, or - access is restricted using NTFS access control lists			
	Digest authentication for Windows domain servers			
	Basic authentication (password is sent in clear text)			
	Default dor	nain: Select		
	Realm:	hq.lavie.co.il Select		
	Integrated Windows authentication			
		OK Cancel Help		

8. Allow reading permissions to all ASP pages in the IBrowse directory (IBROWSE \ IBRW\_WEB) for all users.



#### **Defining the IBROWSE.INI file:**

The IBROWSE.INI file is located inside the "WINDOWS" folder on the IIS server. The new parameter that Needs to be defined is the "START\_PAGE" field. There are two options:

#### 1. User identification by Windows Logon User Name:

- a. Please define: **START\_PAGE=userpsw.aspx**
- b. Make sure the TK user name (employee or supervisor) is identical To the Windows Logon User Name
- c. An optional parameter can be added to the IBROWSE.INI: DOMAIN=[domain\_name] (e.g. DOMAIN=lavie\_domain).
   If this parameter is defined the system will verify that the user is defined within the domain. If

If this parameter is defined the system will verify that the user is defined within the domain. If the parameter is left undefined the domain name will not be verified.

🖪 IBROWSE.ini - Notepad 📃 🗖	×
File Edit Format View Help	
[SYS_PARAM] Data_Source=sql-server\intelsup DATA_BASE_TYPE=0 DATABASE=SYNEL-ACCA DATA_PATH=C:\TKSQL\data	
LANGUAGE=ENGLISH START_PAGE=userpsw.aspx DOMAIN=lavie_domain SQL_PARAM=F5666CEEBED3AECF5F834D346E61CBA563746E762D1	(
Ln 8, Col 20	



Note1: In the FOX version the supervisor user name is limited to 4 characters.

Note2: The FOX user name is case sensitive, the SQL is not.

## 2. <u>User Identification by Active Directory:</u>

- a. Please define: **START\_PAGE=userpswAD.aspx**
- b. Since an employee can be assigned to more than one user, Please make sure there is no more than one IBrowse supervisor user assigned to each employee.
- c. An optional parameter: **DOMAIN=LDAP://[domain\_name]** (e.g. LDAP://lavie\_domain)
- d. Active directory definitions must be made by IT department:
  - i. "Windows User Name" will be stored in the "sAMAccountname" field.
  - ii. Employee number (which is the employee number in the TK system as well) will be



stored by the IT department in the "employeeID" field.

Note: An option has been added to define where in the Active Directory to store the user name and the employee number: If the IT administrator chooses to use any other fields in the Active Directory for those two definitions, Please define AD=X,Y inside the IBROWSE.INI, Where X and Y stand for:

X – The name of the field in the Active Directory where to store the user name. Y - The name of the field in the Active Directory where to store the employee number.

Example: AD=sAMAccountName, physicalDeliveryOfficeName



Note: In case an AD field is not defined, the default fields would be used.