



**TERMINAL SERVICES LOG**

**I NSTALLATION**

**WINDOWS 2003**

**VER: 1.0**

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## 1. CONTENTS OF THE ZIP FILE

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Supplied files are:

- Tsl\_demo.exe
- Db1.mde
- manual\_TSL\_2003.pdf
- manual\_TSL\_2008.pdf

TSL\_demo.exe is the application that will fill database.

DB1.mde is the front end of the application, all Disconnect, Idle and Active times are in this Database.

manual\_TSL\_2003.pdf is the user manual for Windows 2003

manual\_TSL\_2008.pdf is the user manual for Windows 2008

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## 2. DATA CAPTURE INSTALLATION AND CONFIGURATION

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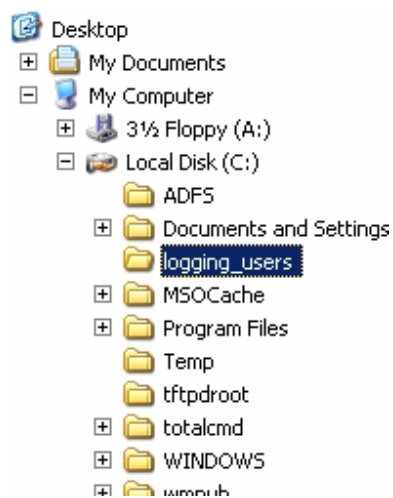
There is no install program provided, instead you will have full control over installation.

Follow these steps to install program.

Everything described here is configured directly on the terminal server.

I would suggest **administration** logon when configuring application.

Create in the root directory of C disk directory called **logging\_users**



Extract there TSL\_demo.exe and DB1.mde files.

Now we will prepare TSL\_demo.exe for capturing data.

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We will schedule this over scheduled tasks. TSL\_demo.exe will be scheduled every two minutes to capture data into access database. Two minutes is enough for having correct data about user times that users were on the terminal server.

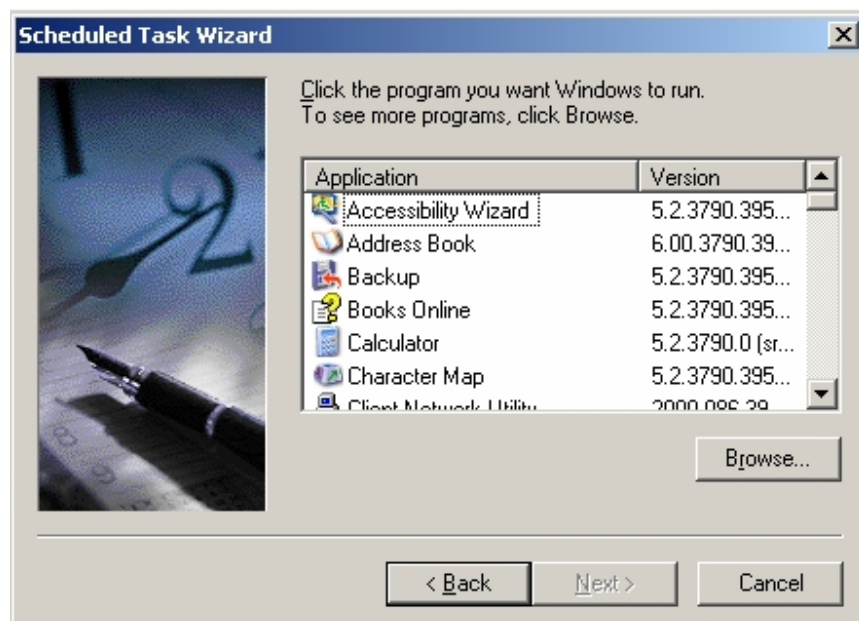
Go to the Control Panel and then Scheduled Tasks.

Choose to create New Task

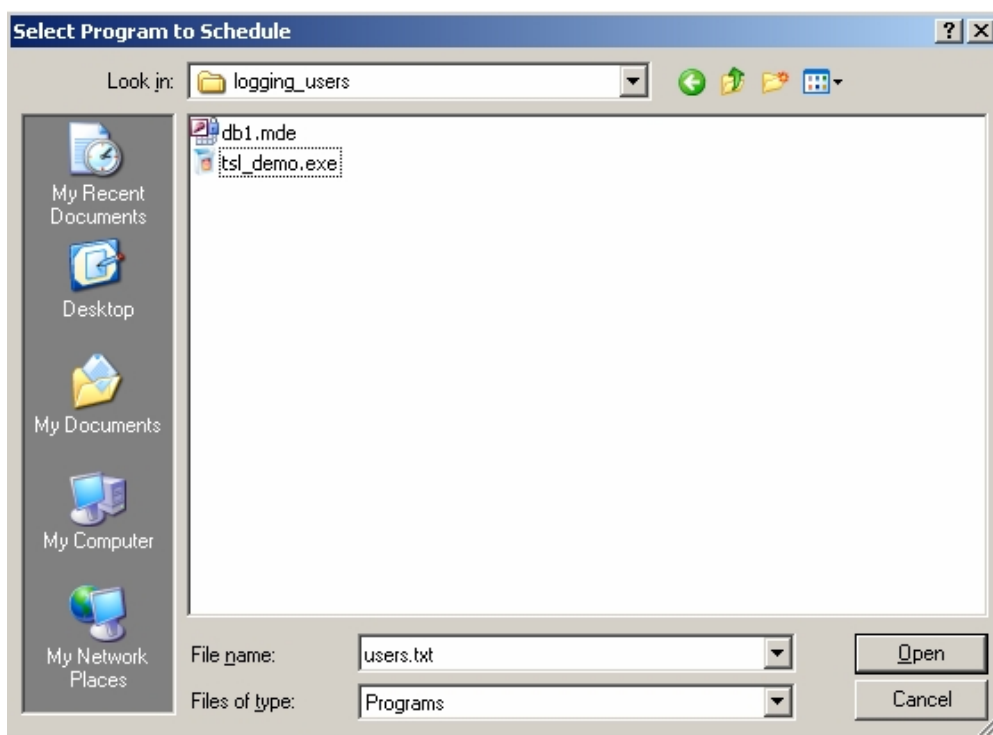


Press next to start wizard.

On this screen we will choose tsl\_demo.exe application for scheduling.



Choose **Browse** locate c:\logging\_users and TSL\_demo.exe application.



We are now at the screen where we will pick name for the task, we can leave it default „tsl\_demo“ and when will this task perform. Choose to perform **Daily**.



Now on this screen we must set start time and date (you can leave default values) and Perform this task every 1 day.



On next screen we will need to choose user under which task will run.

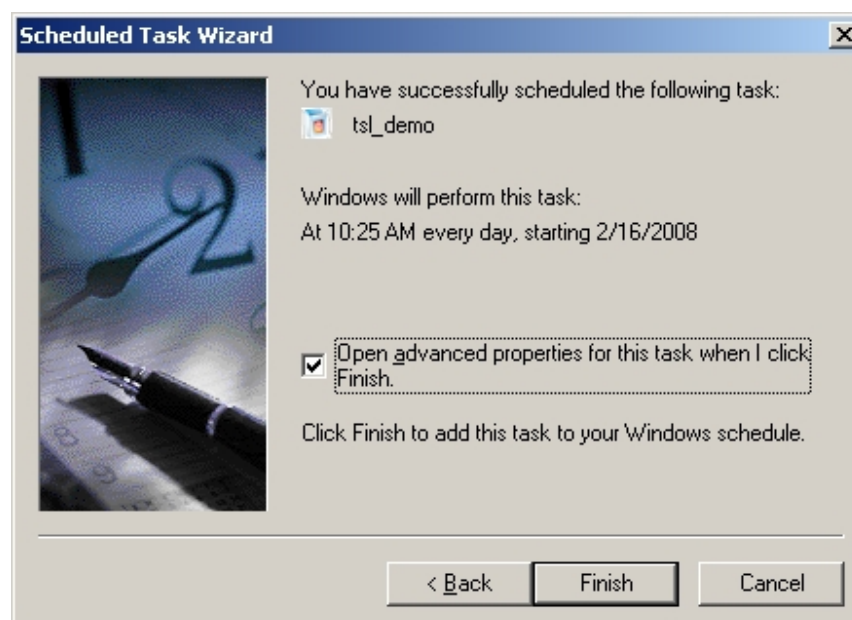
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Please note that user under which task will run must have rights to write to c:\logging\_users directory that we have created before. The best would be to set Administrator to run task as there are no security risks.



The screenshot shows the 'Scheduled Task Wizard' window with a blue title bar and a close button. On the left is a graphic of a clock and a pen. The main text reads: 'Enter the name and password of a user. The task will run as if it were started by that user.' Below this are three input fields: 'Enter the user name:' with the text 'TSUSERVER\Administrator', 'Enter the password:' with masked characters, and 'Confirm password:' with masked characters. A warning message states: 'If a password is not entered, scheduled tasks might not run.' At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

On next and last screen you will be informed that task is successfully created. Choose to open advanced properties when you click **Finish**.

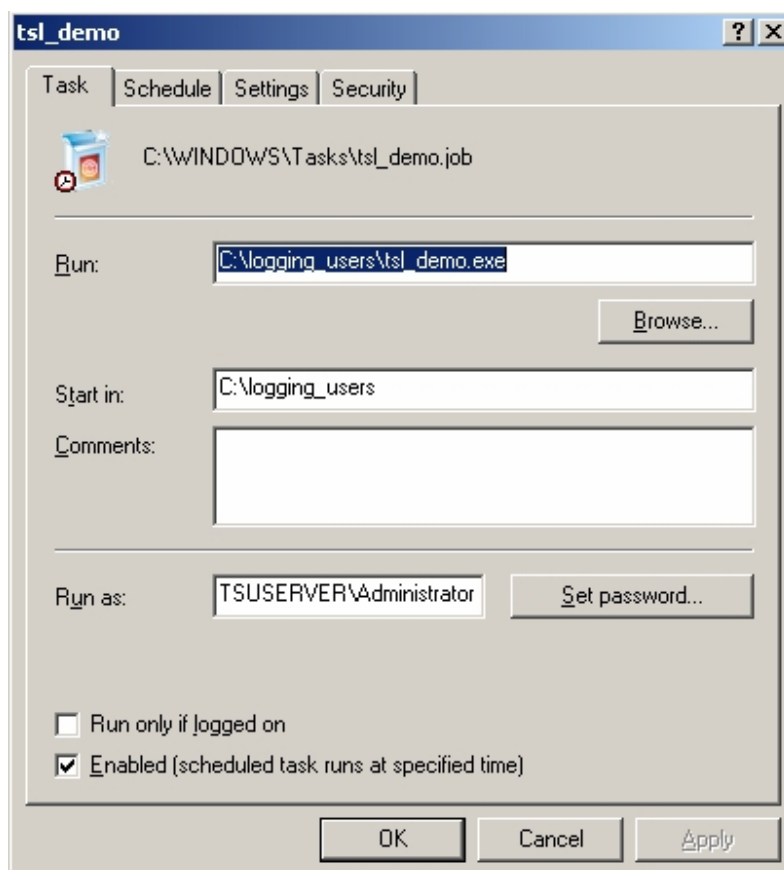


The screenshot shows the second step of the 'Scheduled Task Wizard'. The title bar and left graphic are the same. The main text reads: 'You have successfully scheduled the following task:' followed by a task icon and the name 'ts\_demo'. Below this, it says: 'Windows will perform this task: At 10:25 AM every day, starting 2/16/2008'. There is a checkbox labeled 'Open advanced properties for this task when I click Finish.' which is checked. A final instruction says: 'Click Finish to add this task to your Windows schedule.' At the bottom are three buttons: '< Back', 'Finish', and 'Cancel'.



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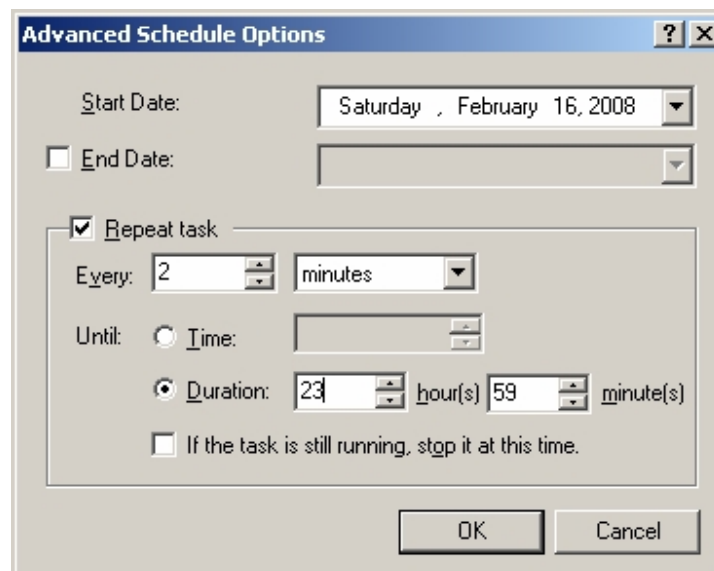
If everything is OK you should see this screen, this means that task is successfully created.



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Now we must set task to run every two minutes. Choose tab **Schedule** and then **Advanced** and you will come to this screen. Fill required data as on screenshoot:

- Start date: leave your default
- Check Repeat task
- Enter to repeat every 2 minutes for duration 23 hours and 59 minutes.



**Advanced Schedule Options**

Start Date: Saturday, February 16, 2008

☐ End Date:

☒ Repeat task

Every: 2 minutes

Until: ☐ Time:

☒ Duration: 23 hour(s) 59 minute(s)

☐ If the task is still running, stop it at this time.

OK Cancel

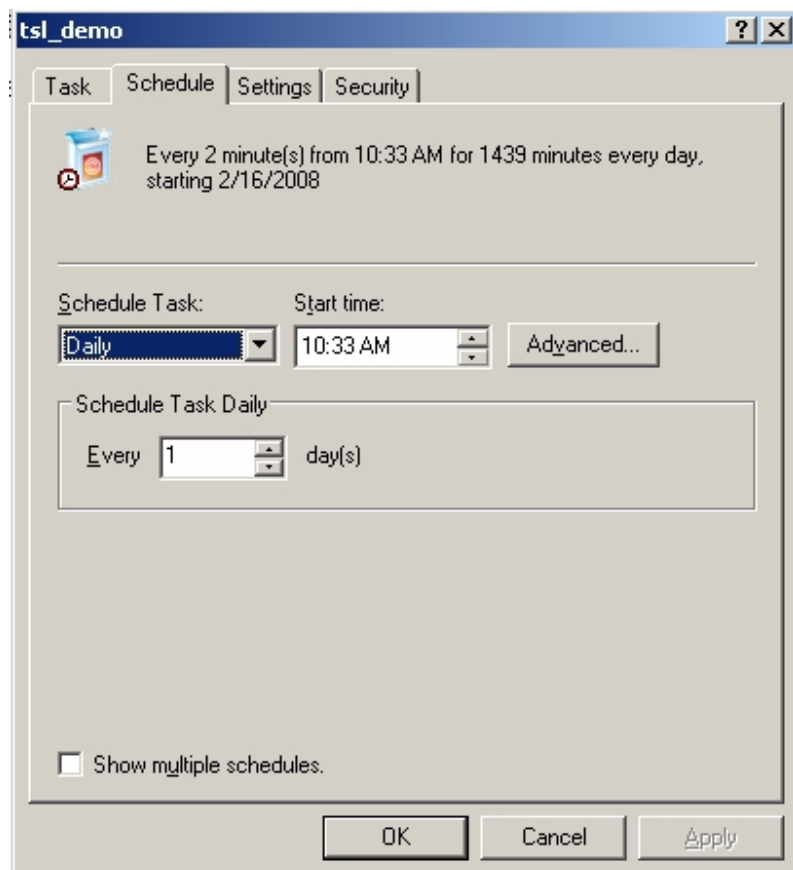
Now confirm this window and you will return to **Schedule** tab

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Note on the top of window:

*Every two minutes from (your time) for 1439 minutes every day starting (your date).*

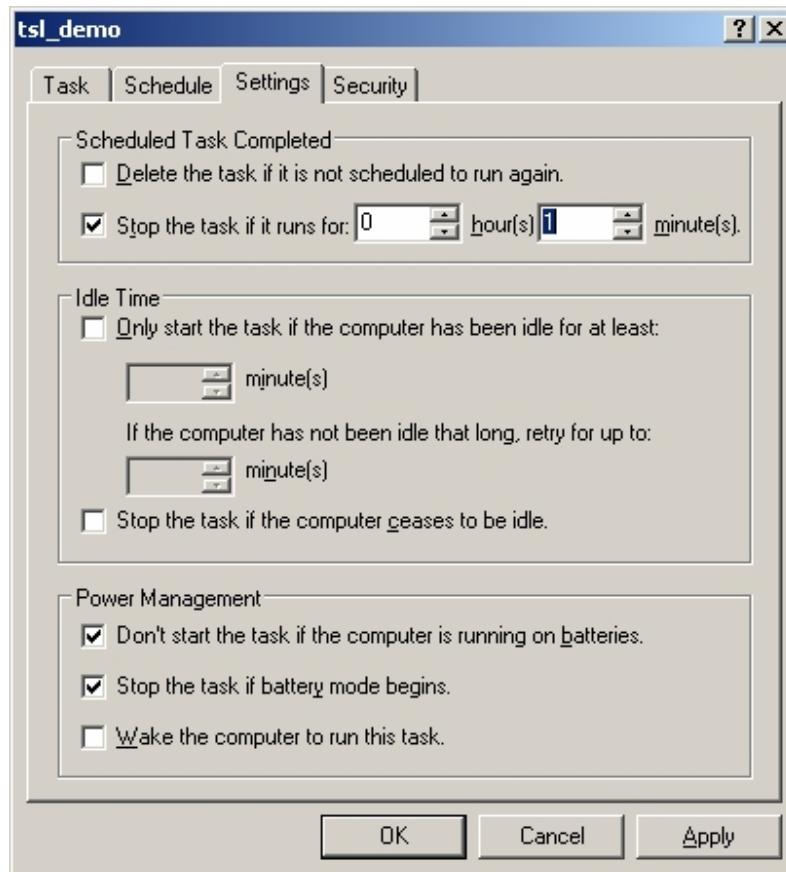
This will run our task for every two minutes every day meaning that our users will be logged into database every two minutes.



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Now choose on the top tab **Settings**

There you must change „Stop the task if it run...“. Default is **72 hours and 0 minutes**, it need to be **0 hours and one minute**.



Now confirm everything and you have your schedule task created to run for every two minutes.

Go to the `c:\ logging_users` and open `db1.mde` database. Choose today date on the combo box and you will have fresh data from today.

Every day will have its own option in the **combo box** so you need just choose date in the combo box you want to view. Simple as it should be.

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## 2.1 Configuring blank command prompt window dissapear

When application is scheduled for data capture the will be blank command prompt window that will show every two minutes then can annoy some system administrators.

We have two options to solve this, one is to configure other user account for running schedule task, and the other is little vbs file that will hide command prompt window.

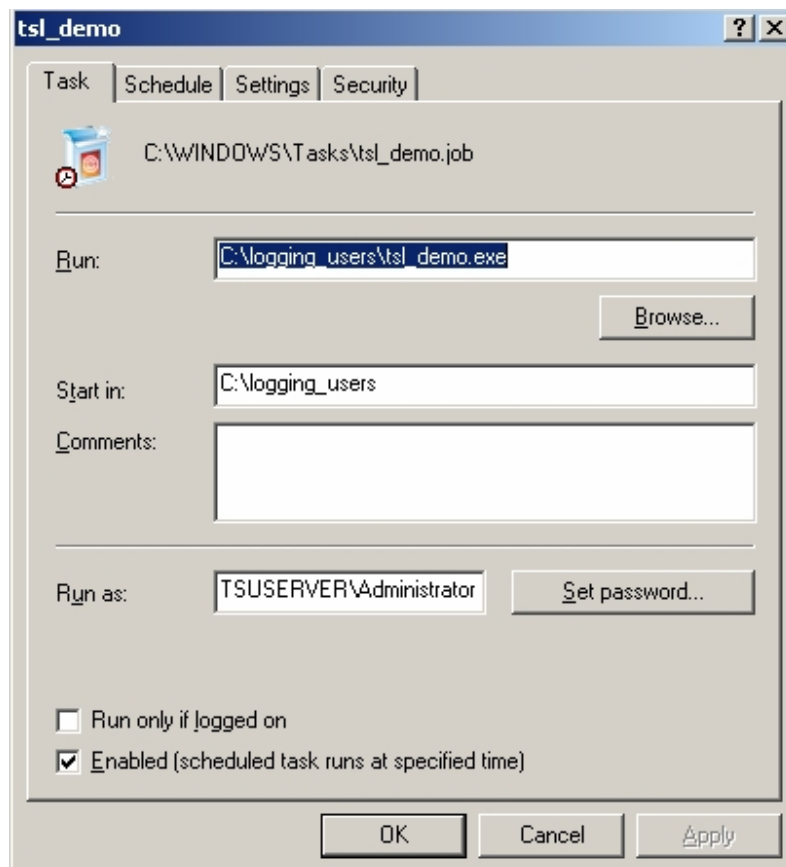
Both options will do the same, command prompt will dissapear so you can choose what ever you want, but I will suggest you first option.

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### 2.1.1 Configuring other user account for running scheduled application

Go to the Control Panel and then **Scheduled Tasks**.

Open schedule task that you have before (**tsl\_demo**) created.



We will need to change Run As option: There you will need to change user under what user application will be scheduled.

**Example:** Create another user called **tsl** and add him to administrators security group.

Then here choose user **tsl** for scheduled task **run as**. After choosing here in scheduled tasks user under what scheduled task will run windows will ask you password for that user you have just created, so enter password and confirm changes on scheduled task.

This way task will run under user **tsl** and if that user in not logged on you will not see any command prompt window as task will run as a service. I prefer this way.

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### 2.1.2 Configuring vbs file that will hide command prompt window

Other option is to configure VBS script to run TSL\_demo.exe application.

Go to the **c:\logging\_users** where you have before extracted application files.

Create there new file called **minimize.vbs**

Open Minimize.vbs and paste following code into:

```
Set Shell = CreateObject("WScript.Shell")
```

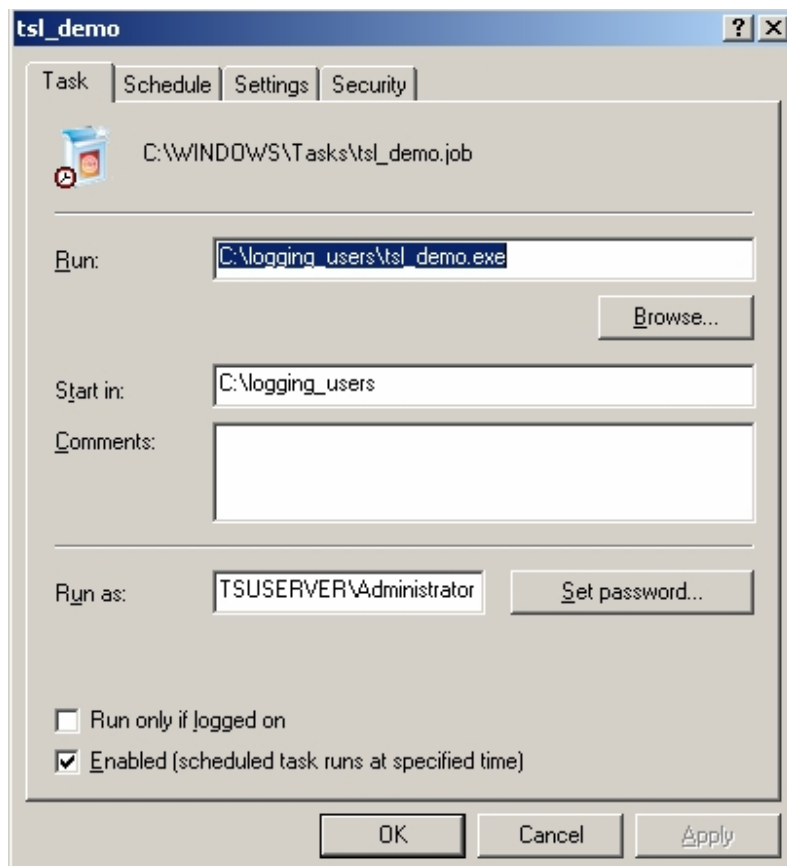
```
Shell.Run ""c:\logging_users\tsl_demo.exe"", 0, True
```

This will hide command prompt window when our TSL\_demo.exe is running.

Now we must replace scheduled task to run this **minimize.vbs** instead TSL\_demo.exe

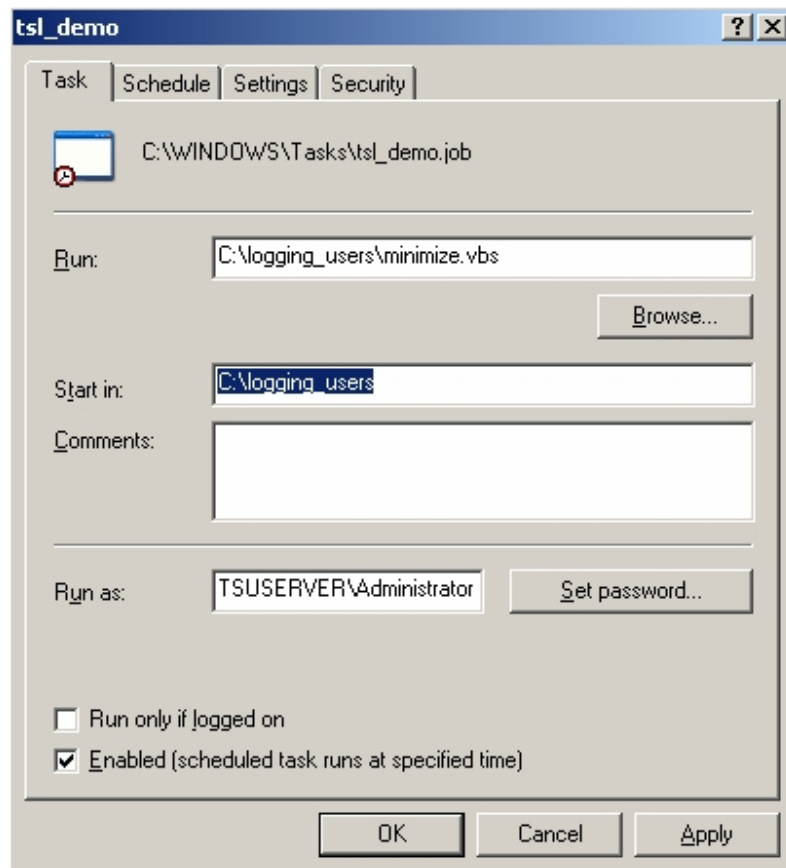
Go to the **Control Panel** and then **Scheduled Tasks**.

Open schedule task that you have before (**tsl\_demo**) created.



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Choose **Browse** (then change in the bottom *Files of type* to **all Files** from default option) and then go to the **c:\logging\_users** directory and choose **minimize.vbs** for scheduled running. After choosing file you should have following screen for scheduled tasks.

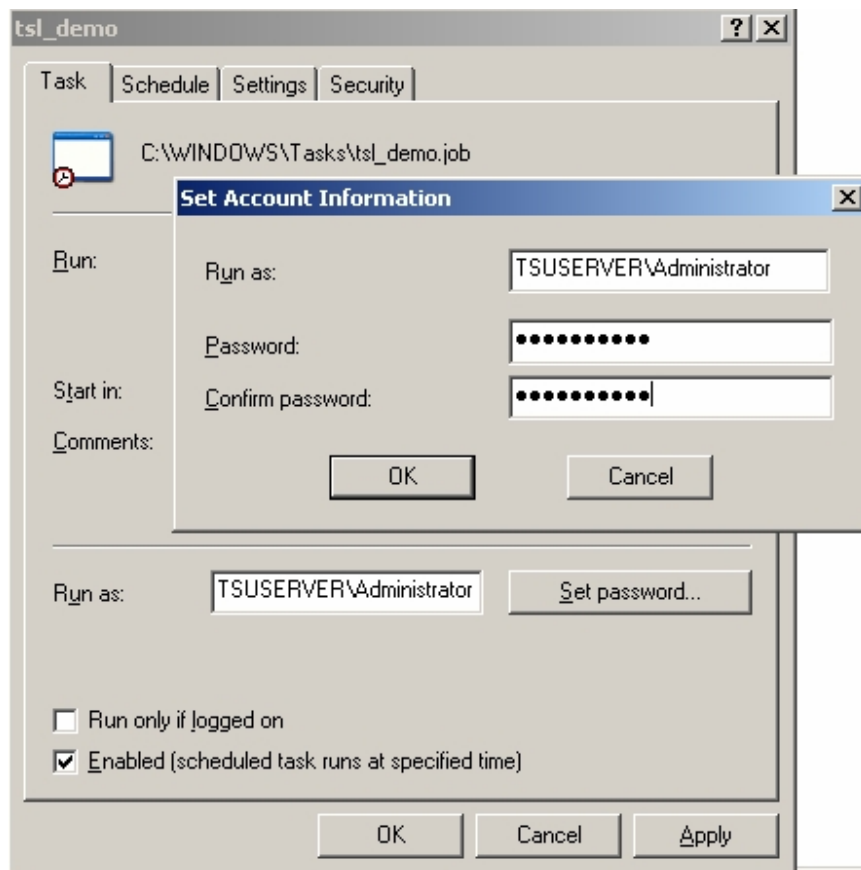


Note in the **Run** there is now our VBS script.



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Now windows will ask you to confirm password after changing script properties, enter password and confirm all windows.



Now when task is executed you will not see command prompt window.

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## 3. FRONT END INTERFACE

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### 3.1 Installing access runtime for Front End Interface

Front End Interface of the application is Microsoft Access. If you don't have Microsoft Access installed you should download free access runtime files from Microsoft site.

Access runtime files are available on:

<http://www.microsoft.com/downloads/details.aspx?FamilyId=D9AE78D9-9DC6-4B38-9FA6-2C745A175AED&displaylang=en>

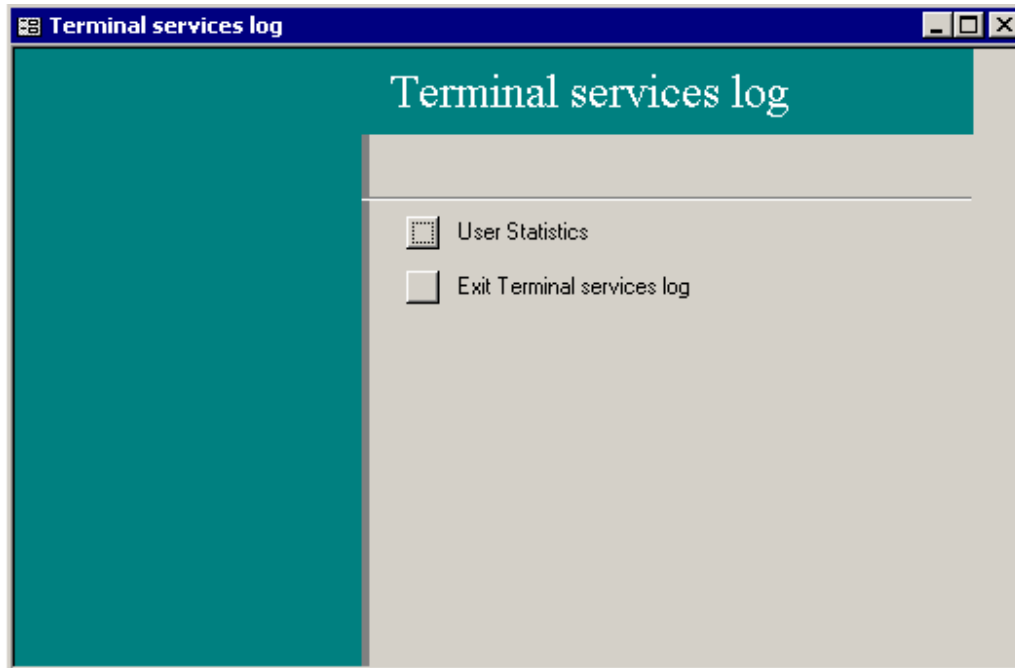
After installation you will be able to click on MDE Front End Interface file.

If you have Microsoft Access installed there is no need to download Access runtime files.

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## 3.2 Opening MDE Front End Interface

On the following screenshot there is Front End MDE file after opening:



As on the picture there are two options available:

- User statistics – open terminal services log statistics
- Exit terminal services log

Click on the **User statistics** to enter Terminal services log statistics.

### 3.3 Summary screen of the Front End Interface

Default screen is Summary screen of the Front End (FE).

Access opened user statistics form and here are all user access times available.

Terminal services log - [FrmUserStats : Form]

File Edit View Insert Format Records Tools Window Help

Type a question fo

Exit Selected: 2/26/2008 Select available date: 2/26/2008 GO

Summary Detailed

User:	TimesLoggedIn:	First LogIn:	Last LogOut:	Total On System:	TotalTimeActive:	Total Idle:	Total Disconnected:
haim	1	07:52	20:01	729	413	196	120
mariana	1	08:22	19:21	659	388	151	120
pat	3	06:05	18:01	648	376	272	0
steve2	1	09:17	22:01	764	361	283	120
lews	1	11:24	21:01	577	328	249	0
tap	1	10:55	22:06	671	303	243	125
pcustserv6	1	11:13	17:36	383	243	140	0
joe	1	10:47	18:11	444	217	227	0
efrat	1	08:27	20:46	739	168	571	0
doron	4	12:09	22:06	547	115	312	120
eli	2	08:20	15:36	248	111	137	0
frane	6	09:02	19:21	204	108	96	0
dave	2	09:45	19:11	446	100	106	240
cstewart	3	09:54	20:21	553	80	438	35
tswih	1	09:57	20:31	634	73	561	0
pjames	3	08:40	20:11	591	58	533	0
labels	2	08:14	17:41	525	42	483	0
omar	3	10:17	19:46	509	40	344	125

As you can see Front End Interface is really easy to use and understand and use.

(Note! In Demo version only one user is available for logging)

We will explain later all columns in the Front End interface.

On the combo box you will need to choose date you want to view, press GO and application will calculate all times (total, active and idle) and show them on the screen. Simple as should be.

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Select available date: 3/7/2008

- 2/24/2008
- 2/25/2008
- 2/26/2008
- 2/27/2008**
- 2/28/2008
- 2/29/2008
- 3/1/2008
- 3/2/2008

GO

**Important!** Note that your database is empty when you install program for the first time and you have to fill it with data.

**Important!** Summary screen will show us summaried for every particlar user logged on terminal server and summaries for all session on that particlar day.

We will choose one user row on the **Summary** screen and explain it.

User:	TimesLoggedIn:	First LogIn:	Last LogOut:	Total On System:	TotalTimeActive	Total Idle	Total Disconnected
haim	1	07:52	20:01	729	413	196	120

**User** – username on the terminal server that is monitored

**TimesLoggedIn** - how much user times logged in, for example user can login and logoff few times a day, all login and logoff information is captured.

**First LogIn** – This is time of the first login of the user in day

**Last Logout** – This is time of the last logout from the system in the day

**Total On system** – Total time on the system, this is sum of all times

**Total Time Active** – This is total active time (user was working something on the system)

**Total Idle** – This is total Idle Time (User wasn't workign anything on the system, keyboard ans mouse wasn't touched)

**Total Disconnected** – This is total disconnected time from the server

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### 3.4 Detailed screen of the Front End Interface

Now we will choose one user row on the **Detailed** screen and explain it.

As you noted on the screenshot for example we will take three users.

User *Administrator* was logged on once on the terminal server.

User *craig* was logged on once on the terminal server

User *cstewaer* was logged on twice on the terminal server.

**Important!** *Detailed screen will show us every time user logged on terminal server and all information about that particular session. Particular session start is Logon Time and particular session end is Log Off time.*

User:	LoginTime:		EndTime:		Active:	Idle:	Disconnected:
▶ administrator	08:45	AM	08:51	AM	6	0	0
craig	20:47	PM	23:06	PM	18	121	0
cstewart	09:54	AM	09:56	AM	2	0	0
cstewart	10:04	AM	13:41	PM	25	157	35

**User** – username on the terminal server that is monitored

**Login time** – Login time of first session he logged in

**End time** – End time of the session monitored

**Active** – This is time how much he was Active on the particular session

**Idle** – This is time how much he was Idle on the particular session

**Disconnected** – This is time how much he was Disconnected from particular session

If you have any other questions please feel free to ask our support at [support@terminalserviceslog.com](mailto:support@terminalserviceslog.com) or you can write me directly at [frane@terminalserviceslog.com](mailto:frane@terminalserviceslog.com)