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TCP/IP TOKEN SERVER

FOR QDV™ V7 and Quick Devis™ V6

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LICENCE

By purchasing a license for the token server for QDV™, Quotalys Ltd concedes you the right to use one and only one copy of the software. This right is neither exclusive, nor transferable. You are right to install TCP/IP token server for QDV™ on as many computers as wished but you do not have the right to use simultaneously TCP/IP token server for QDV™ on different computers with the same license code; you must acquire a license for each computer running the software simultaneously.

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Some countries may restrict the above warranty limitation. In such case, the user is invited not to install the product if this limitation does not satisfy him.

By installing TCP/IP token server for QDV™ you agree with all of the clauses being in this manual. If you disagree with any clause, please, do not install TCP/IP token server for QDV™.

REQUIRED SOFTWARE

The TCP/IP token server for QDV™ uses Microsoft .NET technologies.

It can be installed on a server running one of the following OS:

- Windows 2003 Server
- Windows 2008 Server
- Windows Vista
- Windows 7

The .NET Framework 2.0 is required. It comes normally with Windows 2008 Server, Windows Vista and Windows 7 and may be installed on Windows 2003 Server. This component named Microsoft .NET Framework 2.0 can be downloaded for free from Microsoft web sites.

IS A TCP/IP SERVER SUITABLE FOR MY NEEDS?

QDV™ enables remote licensing using two different servers: TCP/IP token server for QDV™ or Web token server for QDV™.

The TCP/IP token server for QDV™ is intended to be installed on local area networks (LAN) even if it can serve requests coming from any location.

If you have a very large number of licenses (more than 250), if you need to enable connections from anywhere in the world regardless the settings of your server firewall or if you need to enhance availability using two redundant servers (Fail-Over), you'd better choose the Web token server for QDV™ instead of the TCP/IP token server for QDV™.

The TCP/IP server can be implemented easily. It requires few resources and few additional software. Unlike it, the Web server requires a Web Site animated by Internet Information Service (IIS) which is significantly more difficult to set up, especially when you want to use server redundancy. For further information about Web Token Servers, see <http://www.qdv.co> or contact your dealer.

COMPONENTS OF THE SERVER

The token server for QDV™ is built around 3 major components:

- 1) A service named **QDVTCPIPService.exe**. This is the server itself. This component is installed on the server.
- 2) A program named **QDVTCPIPServiceSettings.exe** which enables entering codes and specifying the behavior of the server. This component is installed on the server.
- 3) A program named **QDVTCPIPServiceMonitor.exe** which enabled viewing who is connected to the server. This component can be installed on any computer, including the server.

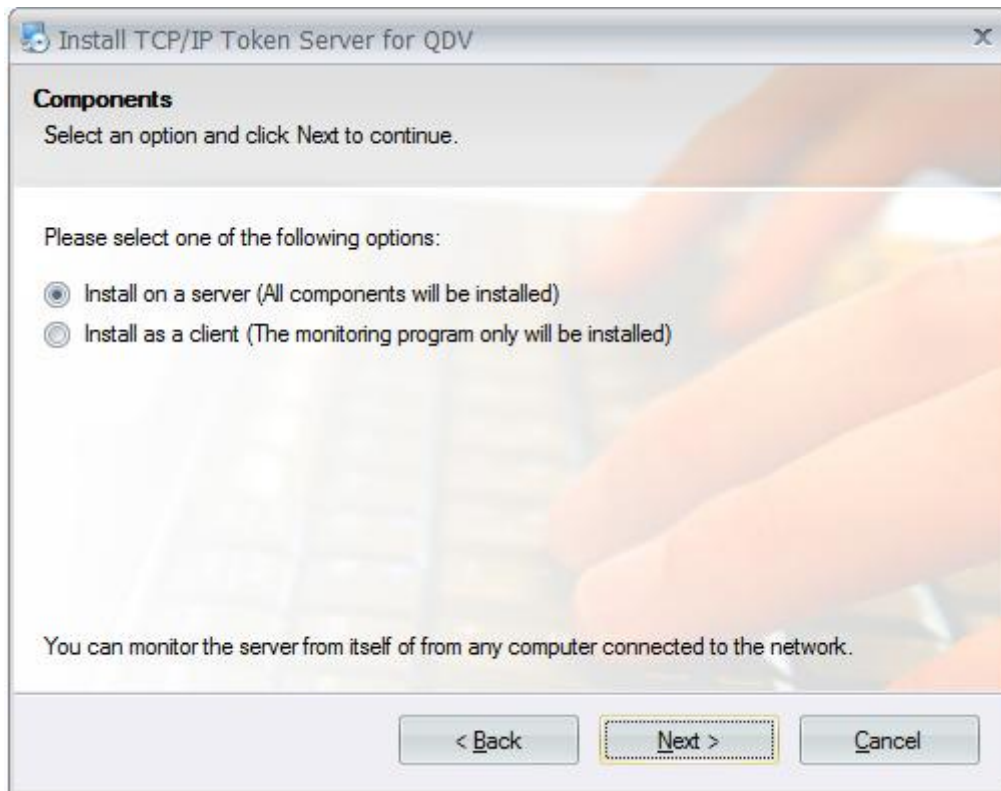
INSTALLING THE SERVER

INSTALLATION

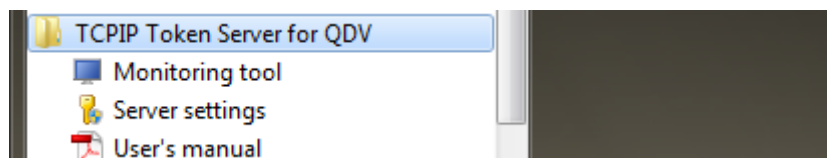
To install the server part of TCP/IP token server for QDV™, just launch the file **QDV_TCPIP_Token_Server.msi** which can be downloaded at www.qdv.co

Caution: To install the token server, you must have administrator rights.

At installation time, you'll be prompted to tell if you're installing the server itself or monitoring tools on a client. Tell that you want to install the server.



After installation, your start menu should contain:



GIVE SERVICE ADMINISTRATOR PRIVILEGES

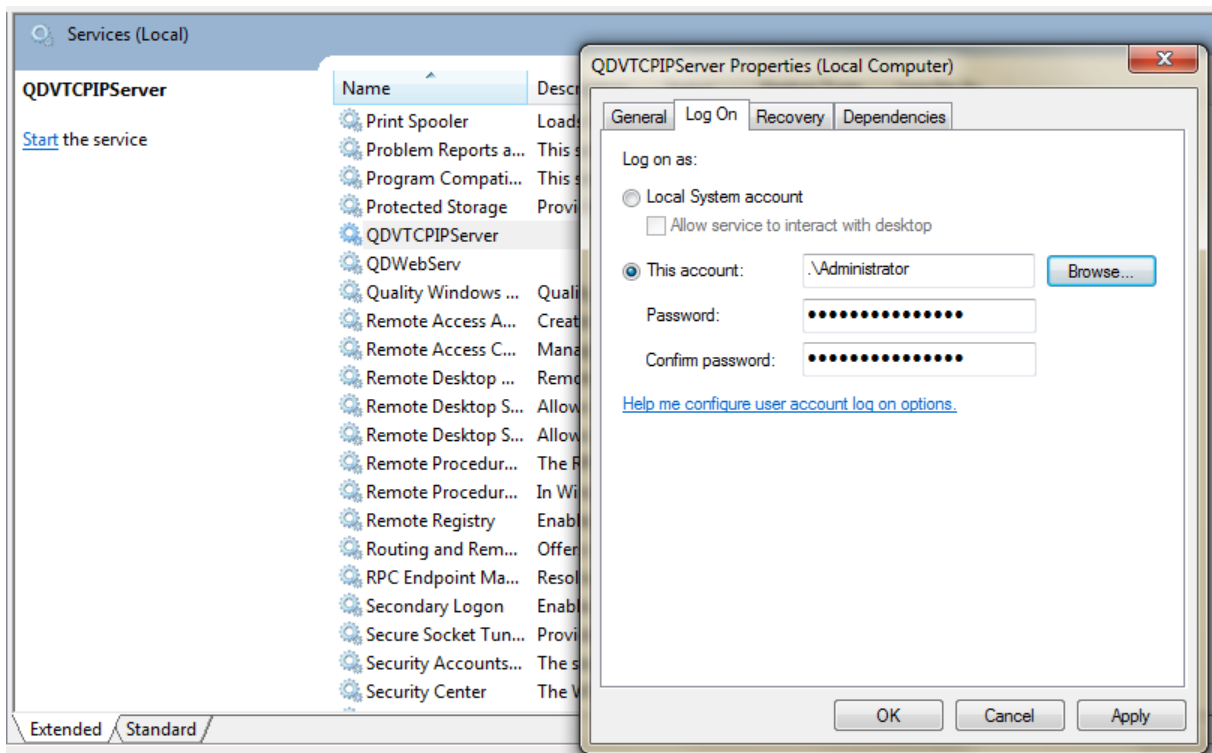
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Depending upon your system, you may need to give administrator privileges to your newly installed service. The most recent operating systems such as Windows 7 and Windows Server 2008 restrict privileges when using local accounts.

To elevate privileges for the service, proceed as follows:

Go to **Control Panel / Administrative Tools / Services** and locate the service named **QDVTCPIServer** which normally appears in the **Standard** tab of the **Services** window.

Then, right click on the service to display properties and click **Log On** tab.



Check **This account** instead of **Local System account** and provide names and password of an administrator. Then click **Ok**.

SETTINGS

First of all, you must initialise the token server by doing the followings:

- Adjust query frequency
- Set communication port
- Enter the code containing your rights
- Start the service

In order to do this, click **Server settings** in the **Start / TCP/IP Token Server for QDV** menu.

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Caution: If you're not full administrator of the server, you'll be unable to run this component and an error message will be issued.

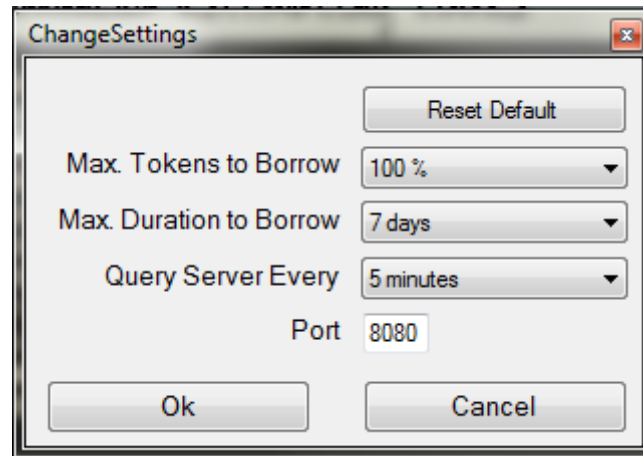
You should obtain the following Window:



The server displays its network name, its IP address and a unique identifier. The port 8080 is used by default for communication with the clients.

CHANGING COMMUNICATION PORT

The **Change Settings** enables changing the communication port which is set to **8080** by default. Use a port which accepts incoming requests through your firewall. You will have to indicate this port on every client's computer.



CHANGING ACCESS FREQUENCY

By clicking the **Change Settings** button you can set up the periodicity on which the user computers will attempt to access the server to check their token. Allowed values are 5 minutes, 10 minutes and 15 minutes.

This parameter can be important and you'll adjust it considering the number of token you have and your network traffic. The shorter is this period, the larger is the traffic.

Clients' computers are not permanently connected to the server and they attempt to access it periodically. When a user launches QDV™, he sends his signature to the server. When he quits the program normally, he sends a new request to the server that frees the token which becomes then available for other users.

If QDV™ is closed in an abnormal way; the release request will never reach the server which won't free the corresponding token. For this reason, the server checks periodically that the link to the user is still 'alive'. If not, it releases the token automatically.

This periodicity for tokens to be released is twice the specified period. If you set 15 minutes for example, an application abnormally closed will release its token after a maximum of 30 minutes. If the user tries to launch QDV™ after the abnormal termination, he will get automatically the same token without having to wait for the server to release it but other users will have to wait to access this token.

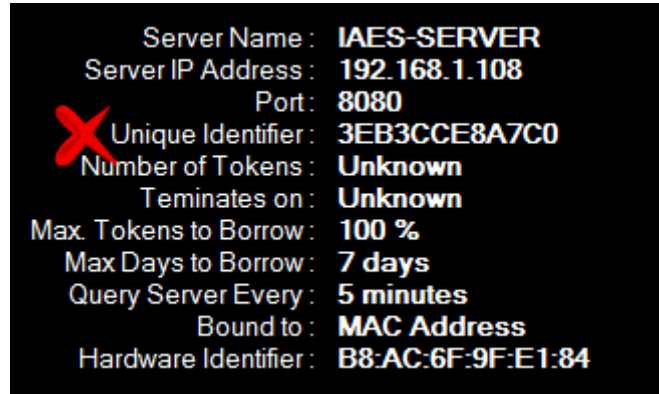
So, basically; if you have a large number of license and want to avoid large traffic, use a higher periodicity. On the opposite, use short periodicity if you want your tokens to be released quickly when applications are abnormally closed.

Notice that, if you change the periodicity while users are connected, they might be disconnected after a warning message.

ENTERING A LICENSE CODE

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Ask your dealer for a license code composed by 28 characters. To obtain such a code, you have to give him your server unique identifier which is the 12 characters code beginning by the digit 3. This code appears in the main window:



The unique identifier is an identifier of your server hardware. It is based on your primary LAN card (MAC address) or on a GUID built from your hardware. The GUID is built only if the MAC address is not accessible or if you explicitly tell the program to do so using the line **IDENTIFIER=** of the **Settings.INI** file being in the installation directory of the server.

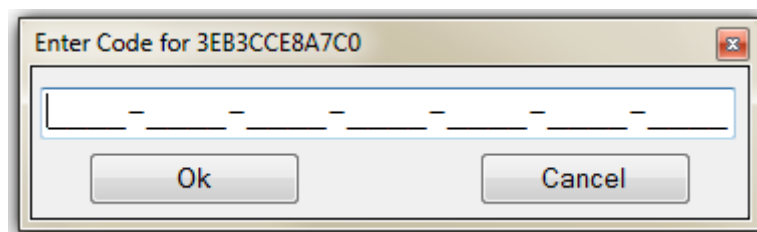
Accepted values in this file are:

IDENTIFIER=MAC
IDENTIFIER=GUID
IDENTIFIER=AUTO

The default value is **AUTO**.

Whatever the mode selected, the server identifier is dependent on the hardware meaning that, if you attempt to install the server on another computer, you will have to call your dealer to obtain a new code because the unique identifier is changed.

To type the 28 character code given by your dealer, click the **Enter New Code** button.



Enter your new code and click **Ok**. To prevent mistakes between the number 0 and the letter O, the code contains no number 0 but may contain letters O.

If no error message appears, your code is valid and the **Number of Tokens** should be visible in the main window.

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The **Terminate on** parameter may also be set if the code was given for a limited period of time.

```
Server Name : IAES-SERVER
Server IP Address : 192.168.1.108
Port : 8080
Unique Identifier : 3EB3CCE8A7C0
Number of Tokens : 10
Terminates on : Saturday, May 26, 2012
Max. Tokens to Borrow : 100 %
Max Days to Borrow : 7 days
Query Server Every : 5 minutes
Bound to : MAC Address
Hardware Identifier : B8:AC:6F:9F:E1:84
```

If your code is wrong, a message is displayed. You are allowed to type up to 3 wrong codes after that the server is disabled and you have to call your dealer to unlock it.

BORROW SETTINGS

By clicking the **Change Settings** button you can set a value for the tokens that can be borrowed. The borrowing of a token let you run QDV™ while disconnected from the server. A borrowed token is no longer accessible by other connected users. So it can make sense to restrict the number of borrowable tokens. Valid values are:

- 0%
- 25 %
- 50 %
- 75 %
- 100 %

Those values represent a percentage of the total available tokens. 0% means the **borrow tokens** feature won't be accessible.

You can put a limit to the time users can borrow a token. Use the **Max Days to Borrow** list box for this purpose. You can set a number of days ranging from 1 to 50.

STARTING THE SERVICE

Click the **Restart Service** button to start the service so that clients can use it. If the service fails to start, see **Troubleshooting** section, below in this manual.

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Server Name : IAES-SERVER	RUNNING
Server IP Address : 192.168.1.108	Enter New Code
Port : 8080	Change Settings
Unique Identifier : 3EB3CCE8A7C0	Test
Number of Tokens : 10	Restart Service
Terminates on : Saturday, May 26, 2012	Quit
Max. Tokens to Borrow : 100 %	
Max Days to Borrow : 7 days	
Query Server Every : 5 minutes	
Bound to : MAC Address	
Hardware Identifier : B8:AC:6F:9F:E1:84	

Message sent to service: Test by returning the message: 'Test Ok'
Error: Service is not responding - Object reference not set to an instance of an object.
Got no response from service after 10 seconds! Check service status.
Attempting to restart the service...
Service stopped!
Starting service!
Service started!
Connected to service!
Message sent to service: Test by returning the message: 'Test Ok'
Service says: Test Ok!

TESTING THE SERVICE

Click the **Test** button to test the service. If running properly, the service should return the message “Test Ok!”

Your server configuration is now terminated. Click the **Quit** button to close the application.

You’ll have to launch this application again only when you want to change settings or enter a new code.

MONITORING THE SERVER

You can monitor the server from itself or from any computer connected to the network.

MONITORING FROM THE SERVER

To start monitoring, go to the **Start / TCP/IP Token Server for QDV** menu and click **Server Monitoring**. You should get the following window:

Server IP Address : 192.168.1.108
Port : 8080

Online Tokens in Use : 3
Borrowed Tokens : 1
Total Tokens in Use : 4
Remaining Tokens : 6

Display / Refresh

LIST OF USERS BEING CONNECTED OR HAVING ACTIVE BORROWED TOKENS

Login	Connected for	Borrowed up to (local time)	Full Name	Telephone	Email
Hans	00:00:11	not borrowed	Hans VAN DROOGENBR...	+32(4)4.56.58.5...	hans.vandroogenbroe
Lizzie	00:00:07	not borrowed	Lizzie Wilson	+44.213.412.609	lizzie.wilson@qdv.co
Pierick	00:00:09	not borrowed	Pierick Combreau	+33(6).22.30.84....	pierick.combreau@qc
Wiliam	00:07:09	6/1/2011 2:00:00 AM	William Martin	+1.245.233.8560	william.martin@qdv.co

The list of connected users appears. The darkest lines correspond to borrowed tokens.

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All dates / times are given in local time regardless of the country which hosts the server. All calculations are processed in the server using universal (UTC) time but are shown using local times.

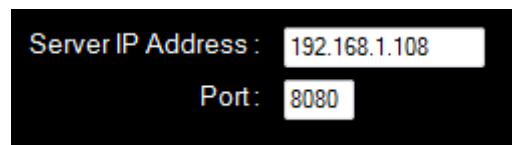
When monitoring from the server, you normally don't have to provide IP address or port. They are read from server settings.

MONITORING FROM ANOTHER COMPUTER

If you want to monitor your server from outside it, you need to install the monitoring tool on the target computer. To do so, process as for installing the server and when the setup application prompts you to select what has to be installed, tell that you want to install only the monitoring tool.

Administrator privileges are not required when you install only the monitoring tool.

When monitoring from outside the server, you need to enter proper IP address and port (those of the server) in the appropriate boxes. These settings are automatically saved at the time the window is closed.



Server IP Address : 192.168.1.108
Port : 8080

SETTING UP DEVIS V6™ USERS' COMPUTERS

On every user's computer, you must indicate the server's IP address and port.

Make sure the version of Quick Devis™ installed is equal or greater than **6.14.857**.

MANUAL SETTING

Launch the **Licenses Manager** module from the **Start / Quick Devis V6** menu. You should get the following window.



Click the **Remote address** button and type the complete address as given by you server, including port (example: **192.168.0.1:8080**)
Then, click the **Ok** button.

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If the **Remove Temporary Licenses** button is activated, click it to remove those licenses because they are taken into account prior to web licenses.

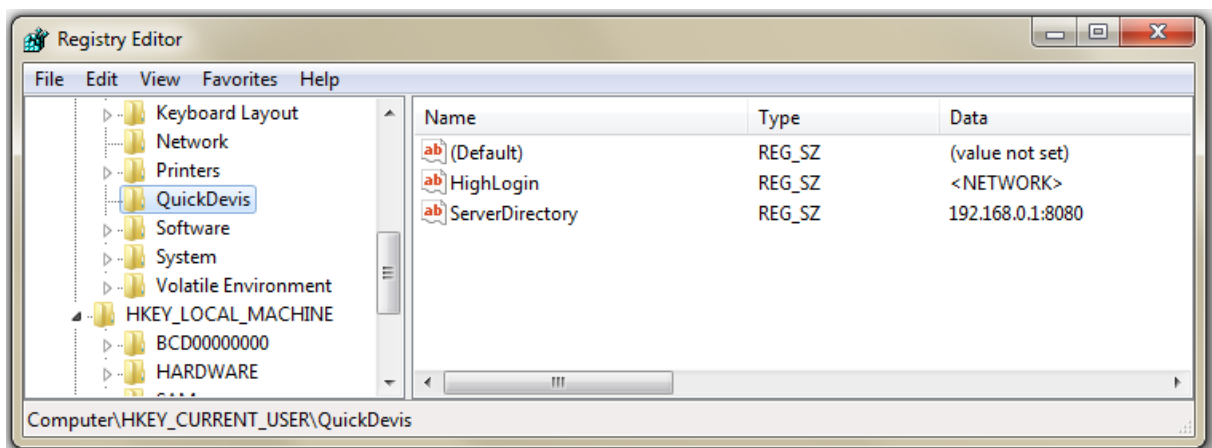
You can set the way the program will access the licenses using options being in the **Search...** section

You can now quit the application and launch Quick Devis™ V6 or one of its modules to make sure the server works fine. If not, you will get an error message explaining why the server cannot return a token.

AUTOMATIC SETTING

Because it can be difficult to set up a large number of clients' computers to indicate the server address, Quick Devis™ enables such a specification using a registry key or a file located in the **Windows\System32** directory. You can implement this address using

The registry key **HKEY_CURRENT_USER/QuickDevis/** of each user contains the license parameters.



The **ServerDirectory** key lets you specify the address of the remote server.

The **HighLogin** key may contain 3 different values:

- <LOCAL> priority is given to a local token, then a remote token
- <NETWORK> priority is given to a remote token, then a local token
- <LOGICAL> only a logical token is searched. Other tokens are ignored

You can also use a file deployed on users' computers. This file is a text file named **QDServAddress.INI** and located in the directory **Windows\System32**. Its first row contains the complete address of the server page. For example: **192.168.0.1:8080**

This file has the highest priority meaning that it overwrites values being in registry key and the manual settings.

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Only the remote address can be stored in this file. The **HighLogin** parameter cannot be stored in the file because the user may have to change it if he wants to use punctually another kind of token.

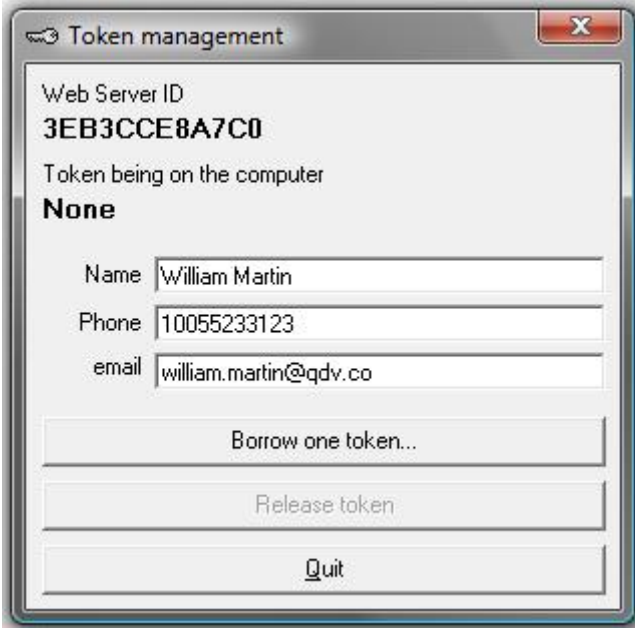
BORROWING TOKENS UNDER QUICK DEVIS V6™

If the version of Quick Devis™ is equal or greater than **6.12.857**, the “borrow token” feature is implemented. To enable this function, you must use a value greater than 0% in the **Max. token to borrow** list box of the setting program.

When a user borrows a token for a period of time, the token is automatically restituted after this period of time. After that, it's impossible to launch Quick Devis V6™ on the computer until the user connects to the server again.

The user can decide to retribute his token at any time, before the period expires.

To borrow a token, launch the **Borrow Token** module from the **Start / Quick Devis V6** menu. The following window appears:



Token management

Web Server ID
3EB3CCE8A7C0

Token being on the computer
None

Name: William Martin

Phone: 10055233123

email: william.martin@qdv.co

Borrow one token...

Release token

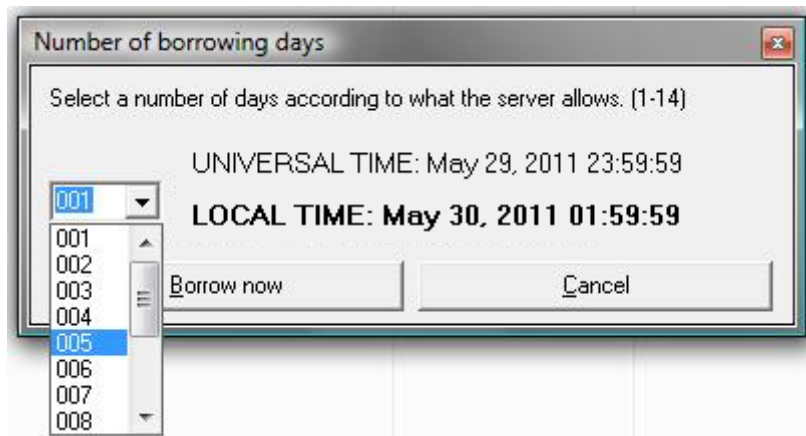
Quit

Once a token is borrowed, the name, phone and email fields become available under all modules of Quick Devis so that they are displayed if the **Server Monitoring tool**.

If you don't see this information while monitoring, ask the user to borrow a token or even simply fill the **Token Management** form.

To borrow a token, click **Borrow one token**. The application displays the following window:

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Borrowing of tokens is based on whole days and uses Universal Time (UTC) because users may be in different locations around the world and, thus, use different local times.

When borrowing a token, the program displays both UTC and Local Times.

Select the number of whole days and check the **LOCAL TIME** mention to make sure it is in accordance with your needs. Then click **Borrow now**. After a few seconds, the server closes the window, meaning that the token has been borrowed and the application displays the token being on the computer.

If the token cannot be borrowed, the server will display a clear message indicating the reason.

Once your token is borrowed, you can disconnect from the server and use Quick Devis™. Even if you are connected, the local token is taken into account prior to the server ones. This is true in all cases and does not depend on the **HighLogin** key.

RELEASING TOKENS

Tokens are automatically released when they expires. This is done simultaneously by the server and by the local computer. If you are online when your local token expires, Quick Devis™ will attempt to log on the server without prompting.

If you want to release your token before it expires, launch the **Borrow Token** module from the **Start / Quick Devis V6** menu and click **Release Token**.

TROUBLESHOOTING

If the application seems not to be running properly, you can get more information about the service going to the event viewer. For this, go to **Control Panel / Administrative Tools / Event Viewer**. Then expand **Windows Logs** and click **Application**.

The name of the service thread is **QDVTCPIDServer**.

The screenshot shows the Windows Event Viewer interface. The top pane displays a list of events with columns for Level, Date and Time, Source, and Event ID. The bottom pane shows the details for event 10032, which is an information event from the source 'TCP/IP Token Server for QDV'. The event message is 'Server started.' The details pane includes fields for Log Name, Source, Event ID, Level, User, OpCode, and More Information.

Level	Date and Time	Source	Event ID
Information	5/28/2011 2:10:19 PM	TCP/IP Token Server for QDV	10032
Information	5/28/2011 1:16:28 PM	TokenServer	0
Error	5/28/2011 1:16:26 PM	TCP/IP Token Server for QDV	10006
Information	5/28/2011 1:16:26 PM	TCP/IP Token Server for QDV	10029
Information	5/28/2011 12:55:19 PM	VSS	8224
Information	5/28/2011 12:52:17 PM	System Restore	8212
Information	5/28/2011 12:52:17 PM	System Restore	8194
Error	5/28/2011 12:46:33 PM	SideBySide	63
Information	5/28/2011 12:03:15 PM	TokenServer	0
Information	5/28/2011 12:03:15 PM	TCP/IP Token Server for QDV	10032
Information	5/28/2011 12:02:55 PM	TokenServer	0
Error	5/28/2011 12:02:53 PM	TCP/IP Token Server for QDV	10006

Event 10032, TCP/IP Token Server for QDV

General Details

Server started.

Log Name: Application
Source: TCP/IP Token Server for QDV\ Logged: 5/28/2011 2:10:19 PM
Event ID: 10032 Task Category: None
Level: Information Keywords: Classic
User: N/A Computer: IAES-SERVER
OpCode:
More Information: [Event Log Online Help](#)

If the service cannot start, make sure it owns administrator privileges. If not, check **Give Service Administrator Privileges** above in this manual.