Important Statement

Thank you for choosing our product. Before use, please read this installation guide carefully to acquire basic knowledge of using ZKProto, avoiding unwanted damages caused.

It is informed that without our company's written consent, no copy or any other forms of distribution of this guide's content may be allowed.

Our company does not guarantee that the information and technical parameters of this guide are exactly consistent with the actual product, nor make prior notice on any updates of the product. Our company reserves the rights of final amendment and interpretation.
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Software Requirement

There are three software required to install in the computer to work in alliance with ZKProto Server:

→ Java installation package: Minimum version is 1.7
→ PostgreSQL installation package: Minimum version is 9.1.13
→ ZKProto Server installation package: Current version is standard 1.0

We have carried out some Windows OS compatibility tests for installation packages of Java, PostgreSQL and ZKProto Server. The ZKProto Server supports both 32 bits and 64 bits of Windows XP/7/8/Server 2003/Server 2008. However, on Windows Server 2003, you might face a problem when installing PostgreSQL, which is that the installation cannot initialize the database cluster. If this problem occurs, you can try to create a folder under which PostgreSQL will install, and then set the folder's limits of authority to the role of "User" with full-control permission before installing.

On the other hand, if there is any change especially in installation directory of Java or PostgreSQL, please stop ZKProto Server and re-install it.
Hardware Requirement

The server running ZKProto Server must at least possess the following features:

→ Single-core, 1GHz
→ 512M memory
→ 16G hard disk

Before Installation

Before installing ZKProto Server, you can install Java, JRE or PostgreSQL by yourself.

If you have not installed Java or PostgreSQL in your computer, ZKProto Server will install Java with version 1.7 or PostgreSQL with version 9.3.5 automatically.
Installation Steps

1. Click to start installation:
2. Click **Next** to go to the license agreement page:

Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

**END-USER LICENSE AGREEMENT FOR THIS SOFTWARE**

Important - read carefully:

This End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and the mentioned author of this software for the software product identified above, which includes computer software and may include associated media, printed materials, and "online" or electronic documentation ("SOFTWARE PRODUCT"). By installing, copying, or otherwise using the SOFTWARE PRODUCT, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, do not install or use the SOFTWARE PRODUCT.

- I accept the agreement
- I do not accept the agreement

please read the license agreement, and check *I accept the agreement*. 
3. Click **Next** to go to the installation information page.

This page shows some details of ZKProto Server. Please read it for helpful information.
4. Click Next.

If Java or PostgreSQL has not been installed in your computer, the page will be as shown as below:
If Java or PostgreSQL has been installed in your computer, the page will be as shown as below:

Please notice that the running logs of server are also located in the location you choose, so make sure there is enough memory to store the logs. Once there are too many logs, you can delete obsolete and useless logs.

you can choose a path to install ZKProto Server.
5. Click **Next**.

Set a Start Menu folder name.
6. Click Next.

If you want to create a desktop icon, check the box.
7. Click **Next**.
8. Click **Install** to start the installation.
The installer will initialize the database for ZKProto Server as shown as below:

Press any key to continue.
At the end of installation, check *Launch ZKProto Server* to run the server after clicking *Finish*, or check *View the README file* to read readme file after clicking *Finish*. 
How to Use

This ZKProto Server installation includes three functions in Start Menu.

Firstly, the **ZKProto Server** is for the server in JVM. Since TCP sockets consume resources, if you want to connect to more clients, please assign more memory to the JVM runtime, whose default memory is 256MB. For more JVM runtime configuration parameters, please consult your JVM documentation.

Secondly, the **Clean database** is to drop the default "imbo" zone and erase the data of tables including table "client", "client2zone", "operation_log", "pending_operation", "conflicf" and zones information except "limbo". It is strongly recommended to use this function when the ZKProto Server is not running.

Thirdly, the **Reset database** is for recreating the schema "zkproto" and initializing default values, but will not affect other schemes which belong to different zones. It is strongly recommended to use this function when the ZKProto Server is not running.

You need to set the parameters in the android device and in ZKTime.Net 3.0, then open ZKProto
Server by clicking ZKProto Server before searching device in ZKTime.Net 3.0.

Tips for using ZKProto

→ We strongly suggest to have the devices connected as much time as possible to the server.

→ Consider all devices in the same zone having the same DB. If something is changed in one client's device, it will be changed in other clients' device as well.

→ The computer running the server must keep connecting to the network, especially after the computer enters standby mode.

→ If a client has been off-line for more than 2 months, his/her account will be obsolete and become unauthorized; re-authentication of this client is required.

→ We recommend to set the buffer size of embedded device with 256 KB or 512 KB.