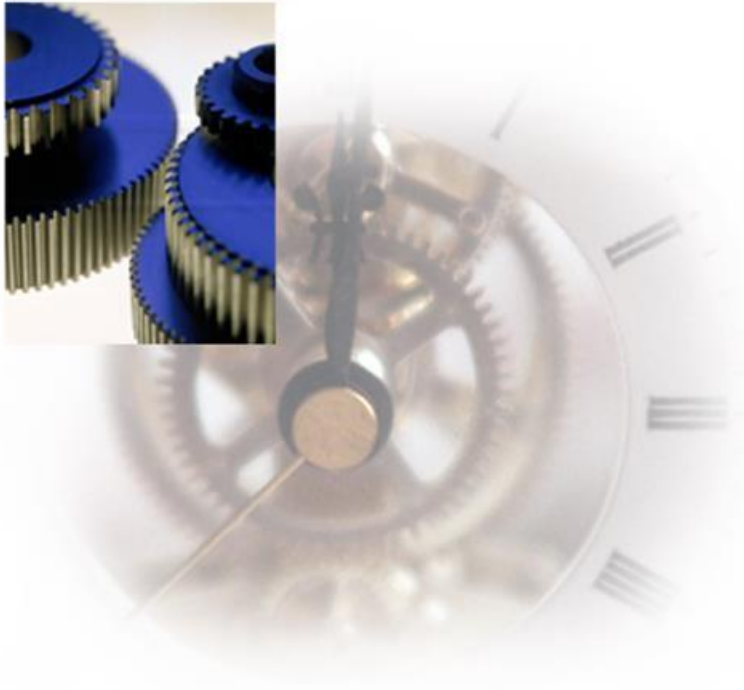


PDC Gateway Configuration

SAP®, PDC Gateway™ and Kronos® systems



PDC Gateway Clock Interface Version

Integration Engine for Plant Data Collection



PDC Gateway Monitor and Services Install

Installation Process and Services Initialization

1.1 Install Package

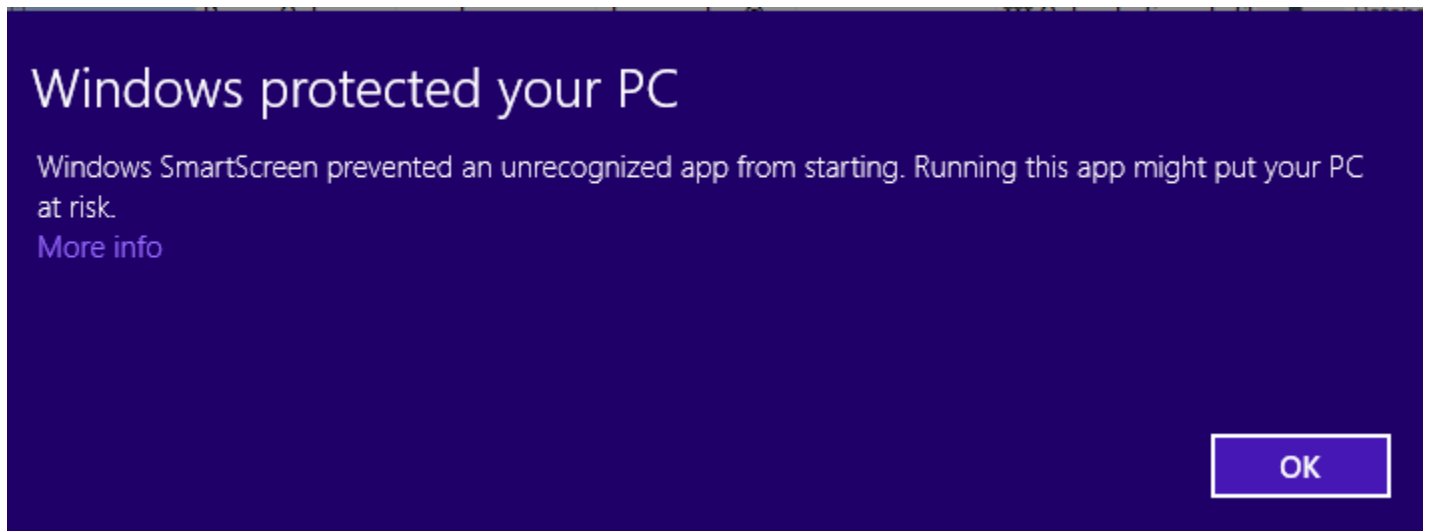
The PDC Gateway Monitor and Services install is performed on the target server using the supplied install files. (Or the downloaded install package) Create a folder on the server under the c:\ drive named iomotion. Add a folder below that named “installs” and place the install files in that folder.

Note: *This is also a good place to add a folder for your clock initialization files. You can create group folders if you have different configurations for different clocks. For instance you could create a “4500Clocks” and a “480Clocks” folder to separate the different types of clocks.*

Execute the file named “PDCGatewayClient64Setup.msi”.

This will install the PDC Gateway Monitor Tool as well as other required components.

During the install, there will be a popup message depending on what Windows version you are using, similar to this...



Click the “More Info” link...

Windows protected your PC

Windows SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk.

Publisher: Unknown Publisher

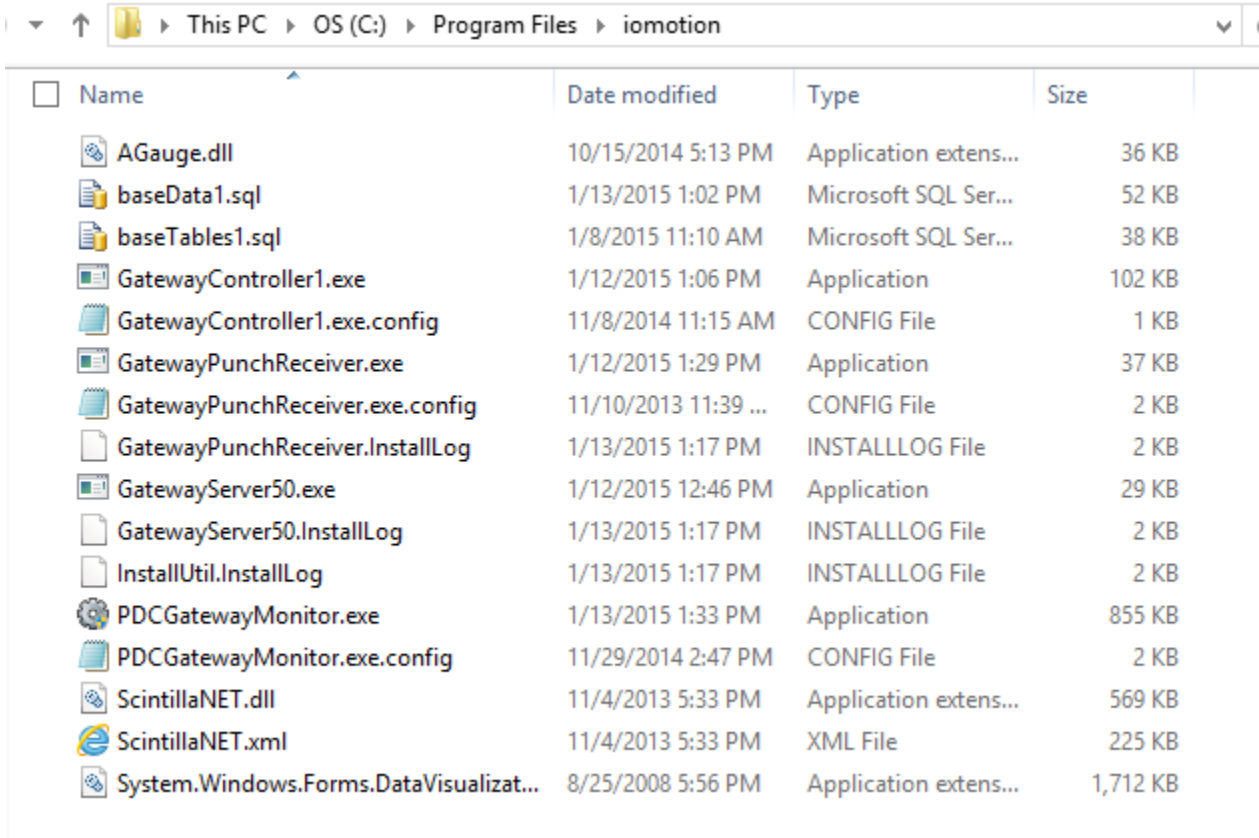
App: PDCGatewayClient64Setup.msi

Run anyway

Don't run

Then click the “Run anyway” button to complete the install.

Verify that the folder “iotion” was created under the Program Files folder and that it looks similar to this...



The screenshot shows a Windows File Explorer window with the address bar set to "This PC > OS (C:) > Program Files > iotion". The main area displays a list of files and folders with columns for Name, Date modified, Type, and Size.

Name	Date modified	Type	Size
AGauge.dll	10/15/2014 5:13 PM	Application extens...	36 KB
baseData1.sql	1/13/2015 1:02 PM	Microsoft SQL Ser...	52 KB
baseTables1.sql	1/8/2015 11:10 AM	Microsoft SQL Ser...	38 KB
GatewayController1.exe	1/12/2015 1:06 PM	Application	102 KB
GatewayController1.exe.config	11/8/2014 11:15 AM	CONFIG File	1 KB
GatewayPunchReceiver.exe	1/12/2015 1:29 PM	Application	37 KB
GatewayPunchReceiver.exe.config	11/10/2013 11:39 ...	CONFIG File	2 KB
GatewayPunchReceiver.InstallLog	1/13/2015 1:17 PM	INSTALLLOG File	2 KB
GatewayServer50.exe	1/12/2015 12:46 PM	Application	29 KB
GatewayServer50.InstallLog	1/13/2015 1:17 PM	INSTALLLOG File	2 KB
InstallUtil.InstallLog	1/13/2015 1:17 PM	INSTALLLOG File	2 KB
PDCGatewayMonitor.exe	1/13/2015 1:33 PM	Application	855 KB
PDCGatewayMonitor.exe.config	11/29/2014 2:47 PM	CONFIG File	2 KB
ScintillaNET.dll	11/4/2013 5:33 PM	Application extens...	569 KB
ScintillaNET.xml	11/4/2013 5:33 PM	XML File	225 KB
System.Windows.Forms.DataVisualizat...	8/25/2008 5:56 PM	Application extens...	1,712 KB

PDC Gateway Licensing

Developer and server license initiation

2.1 Security Key

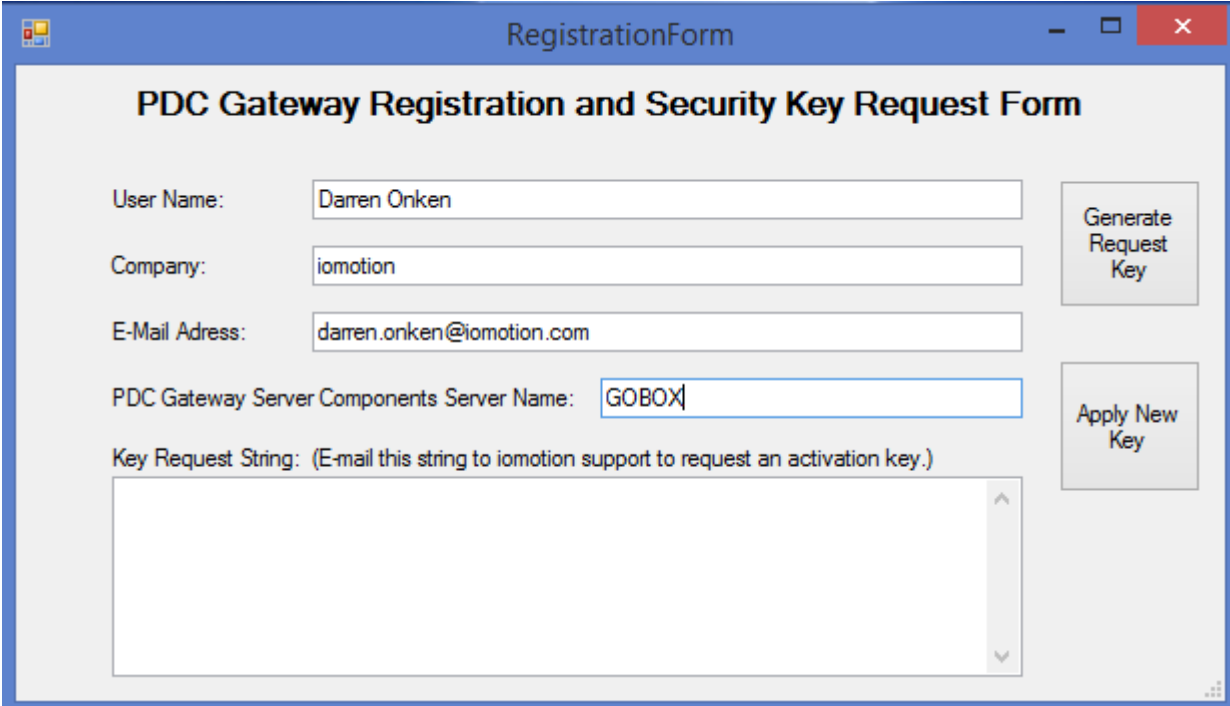
The PDC Gateway Software components all require a valid security key to function. To obtain one, first open the PDC Gateway Monitor for the first time. You should have a desktop icon that resembles this.



You should be presented with the following screen...

A screenshot of a Windows application window titled "RegistrationForm". The window contains a form titled "PDC Gateway Registration and Security Key Request Form". The form has five input fields: "User Name:", "Company:", "E-Mail Address:", "PDC Gateway Server Components Server Name:", and "Key Request String: (E-mail this string to iomotion support to request an activation key.)". There are two buttons on the right side: "Generate Request Key" and "Apply New Key".

Fill in your user name, your company name and your email address. These values should be accurate in order to receive your key information or for future key changes. Also provide the name of the PC or Server where the server components will run. (This is the local computer name in this configuration).



RegistrationForm

PDC Gateway Registration and Security Key Request Form

User Name:

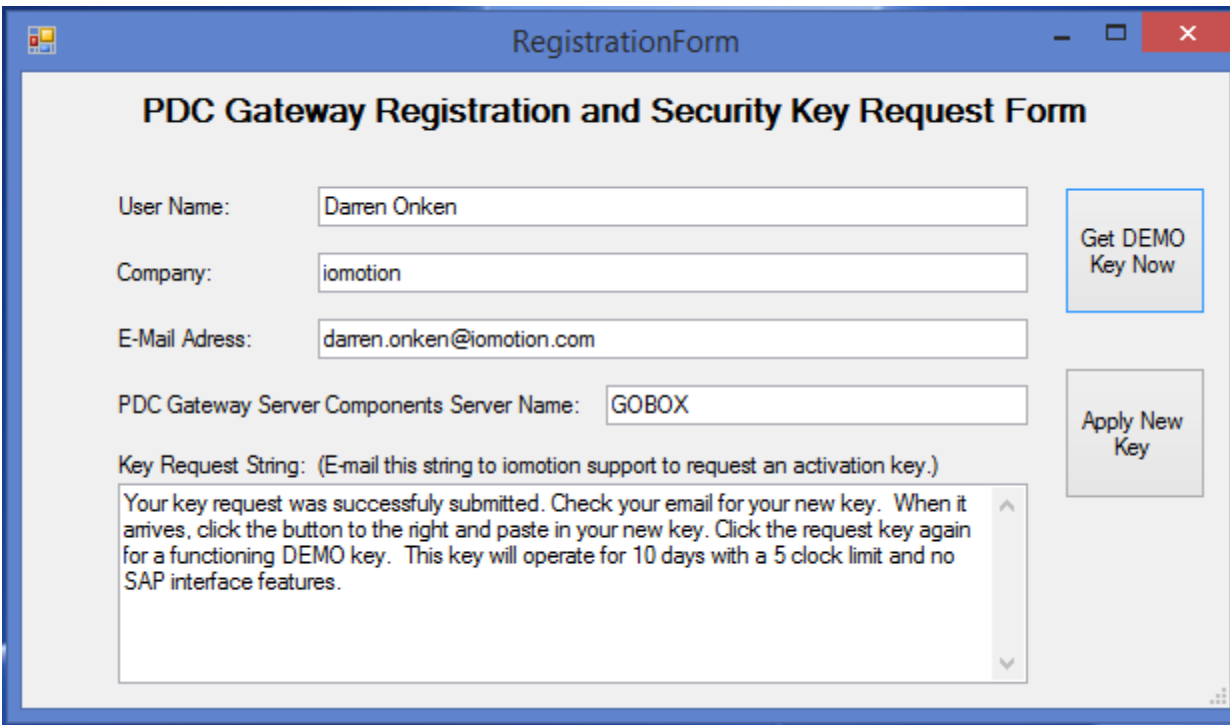
Company:

E-Mail Address:

PDC Gateway Server Components Server Name:

Key Request String: (E-mail this string to iomotion support to request an activation key.)

Then click the “Generate Request Key” button. (The computer must have access to the internet for the key process to work automatically.)



RegistrationForm

PDC Gateway Registration and Security Key Request Form

User Name:

Company:

E-Mail Address:

PDC Gateway Server Components Server Name:

Key Request String: (E-mail this string to iomotion support to request an activation key.)

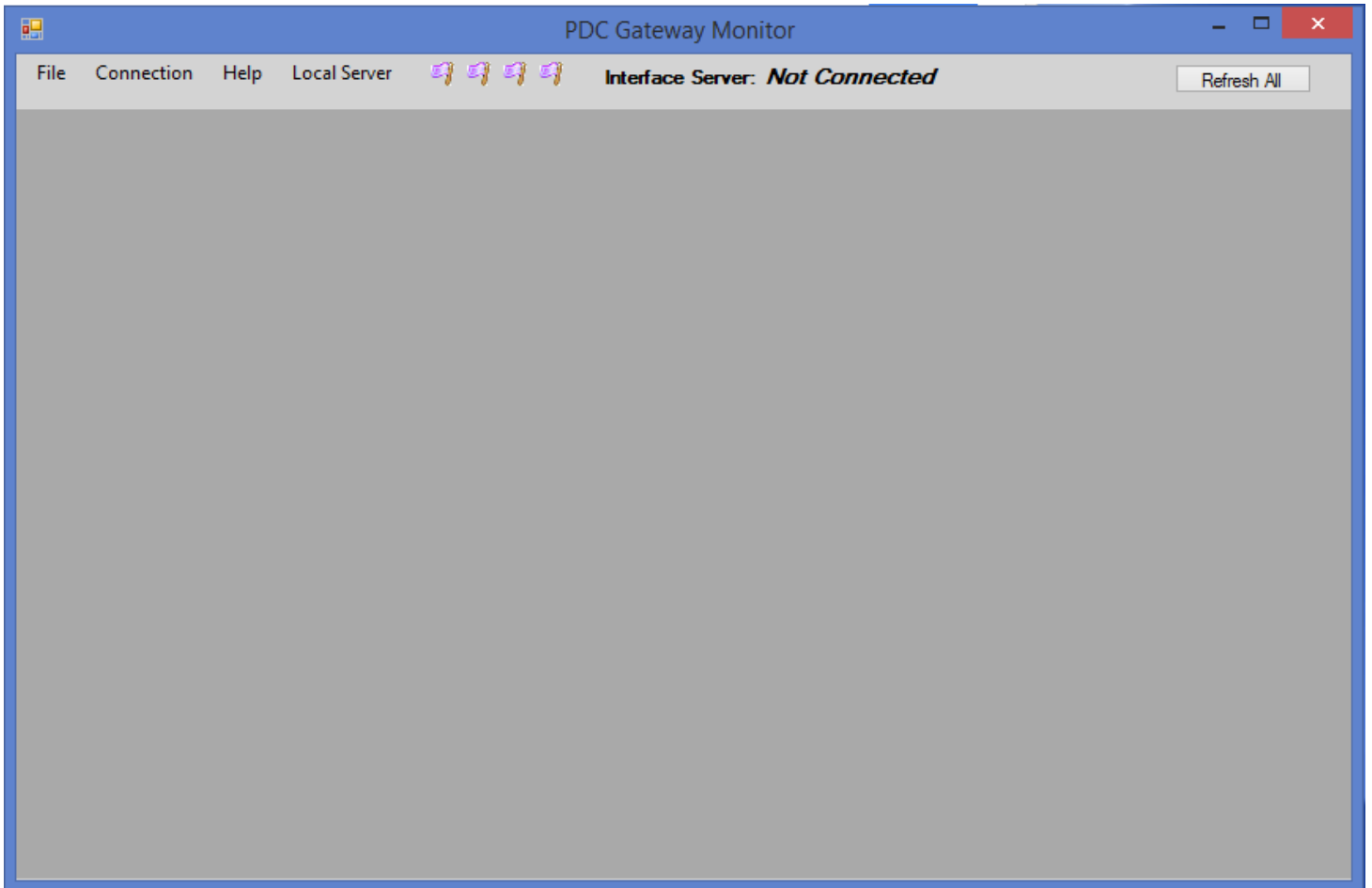
Your key request was successfully submitted. Check your email for your new key. When it arrives, click the button to the right and paste in your new key. Click the request key again for a functioning DEMO key. This key will operate for 10 days with a 5 clock limit and no SAP interface features.



After you click the button the message displays further information.

Click the “Get DEMO Key Now” in order to acquire a temporary key from the iomotion key service.

After a key is validated and installed (an automated process) the main PDC Gateway Monitor screen will open.



If this screen does not appear then contact iomotion support to assist with the installation.

Proceed to the next section to establish a database and initializes the server components.

Note: If other components are required that are not provided with the DEMO key then contact your iomotion representative to have your software key reissued with the required settings. (support@iomotion.com)

PDC Gateway Server Configuration

Database and server services installation and configuration

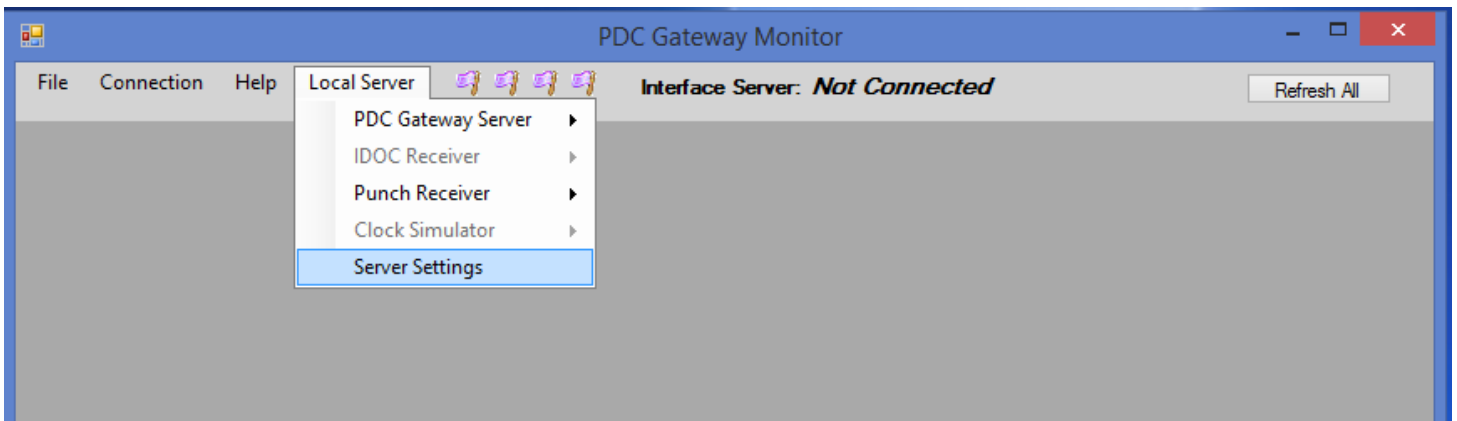
3.1 Database Initialization

The PDC Gateway requires a SQL Server database to operate. This database contains the configuration data as well as tables used for the collection of punches and other data. The install package includes a SQL script that generates the database and also contains commands that populate some of the tables to provide a starting point for development.

Microsoft SQL Server application install files are not included with this package. If there is not an existing SQL Server instance that can be used then one will have to be created. Follow instructions provided by Microsoft to acquire and deploy a SQL Server instance.

Once a SQL Server instance is made available then open the PDC Gateway Monitor if it is not already open from the above steps.

Now open the Local Server menu selection and click “Server Settings”.



The following form should open and allow edits for the various settings for the PDC gateway Server components.

The database server name defaults to “(local)” and should be left as is if the database server instance is on this machine. If it is elsewhere, then enter the SQL Server instance location. (And name if required)

The database name defaults to “PDCGateway” but can be changed. The PDC Gateway client is capable of connecting to multiple SQL Server databases. This allows easy creation of development systems, etc.



The database user name and password can be filled in for “SQL Server Authentication” or left blank for “Windows Authentication”.

The other “Server Engine Settings” should be left in their default state in most cases.

The screenshot shows a Windows-style window titled "PDC Gateway Server Settings". It is divided into two main sections: "Local PDC Gateway Server Database Settings" and "Local PDC Gateway Server Engine Settings".

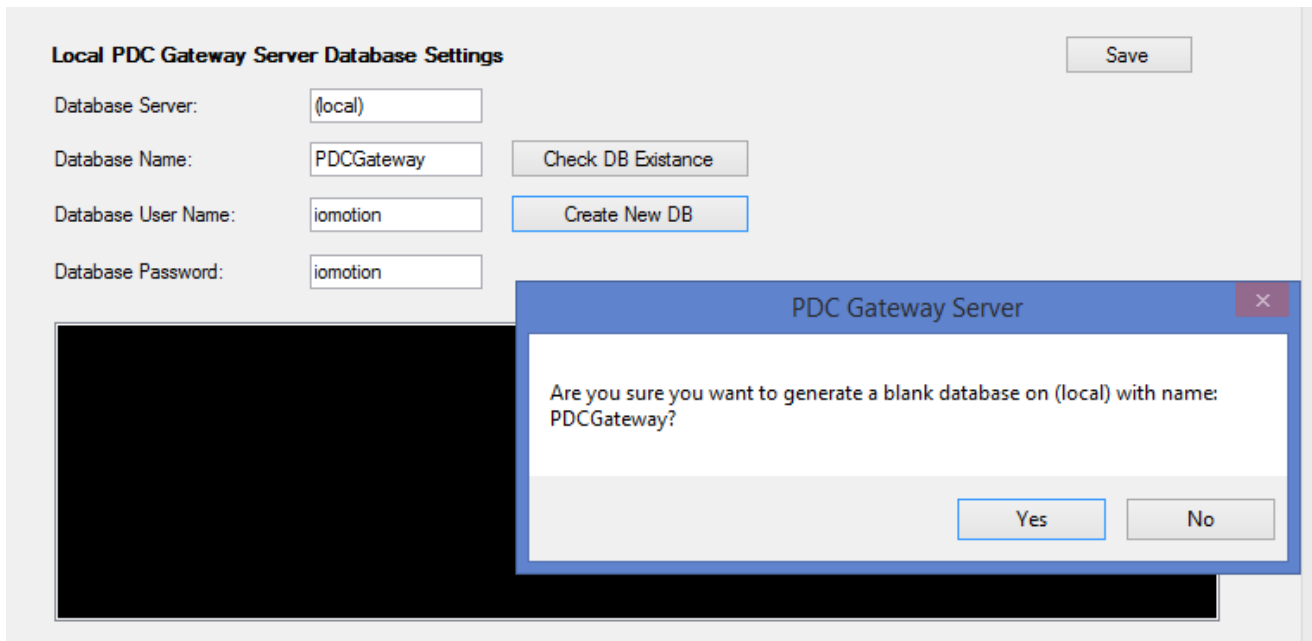
Local PDC Gateway Server Database Settings

- Database Server:
- Database Name:
- Database User Name:
- Database Password: (Leave User and Password blank for Windows Authentication)

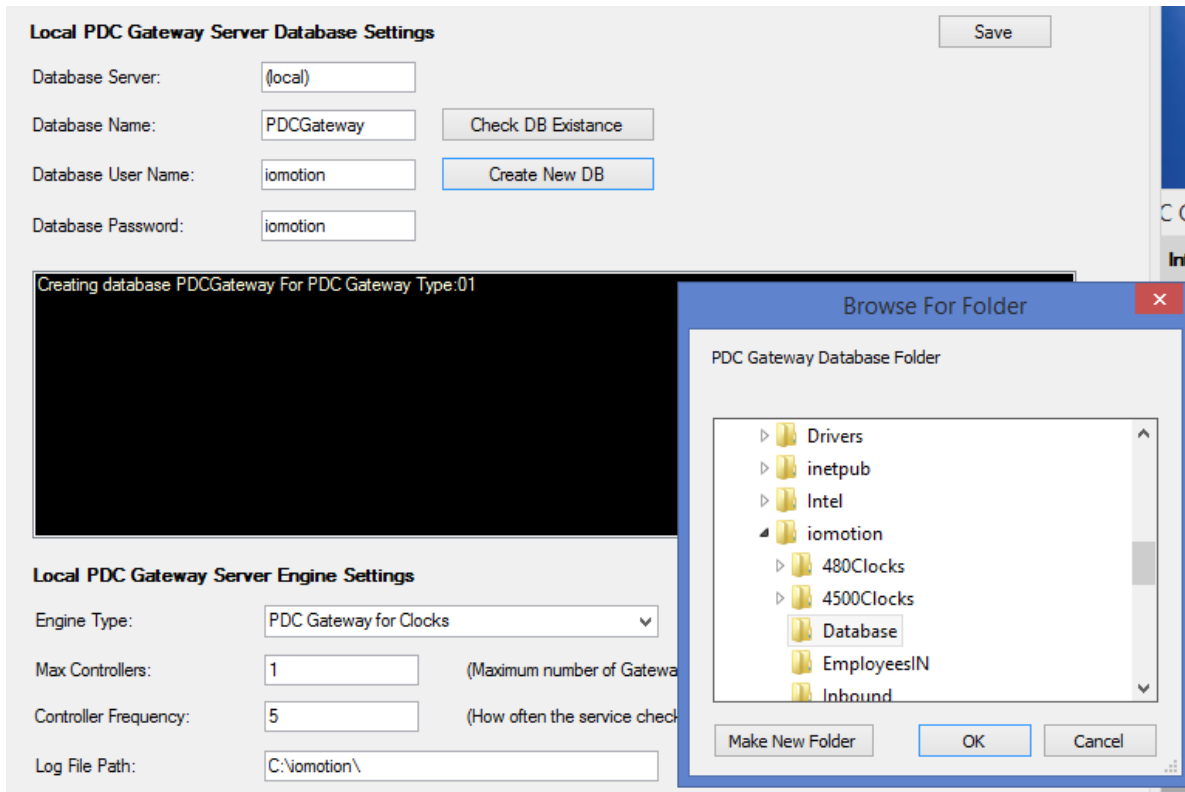
Local PDC Gateway Server Engine Settings

- Engine Type:
- Max Controllers: (Maximum number of Gateway processes allowed to run simultaneously)
- Controller Frequency: (How often the service checks for required processing - typical setting = 5 seconds)
- Log File Path: (Click text box to browse)
- Server License Key:

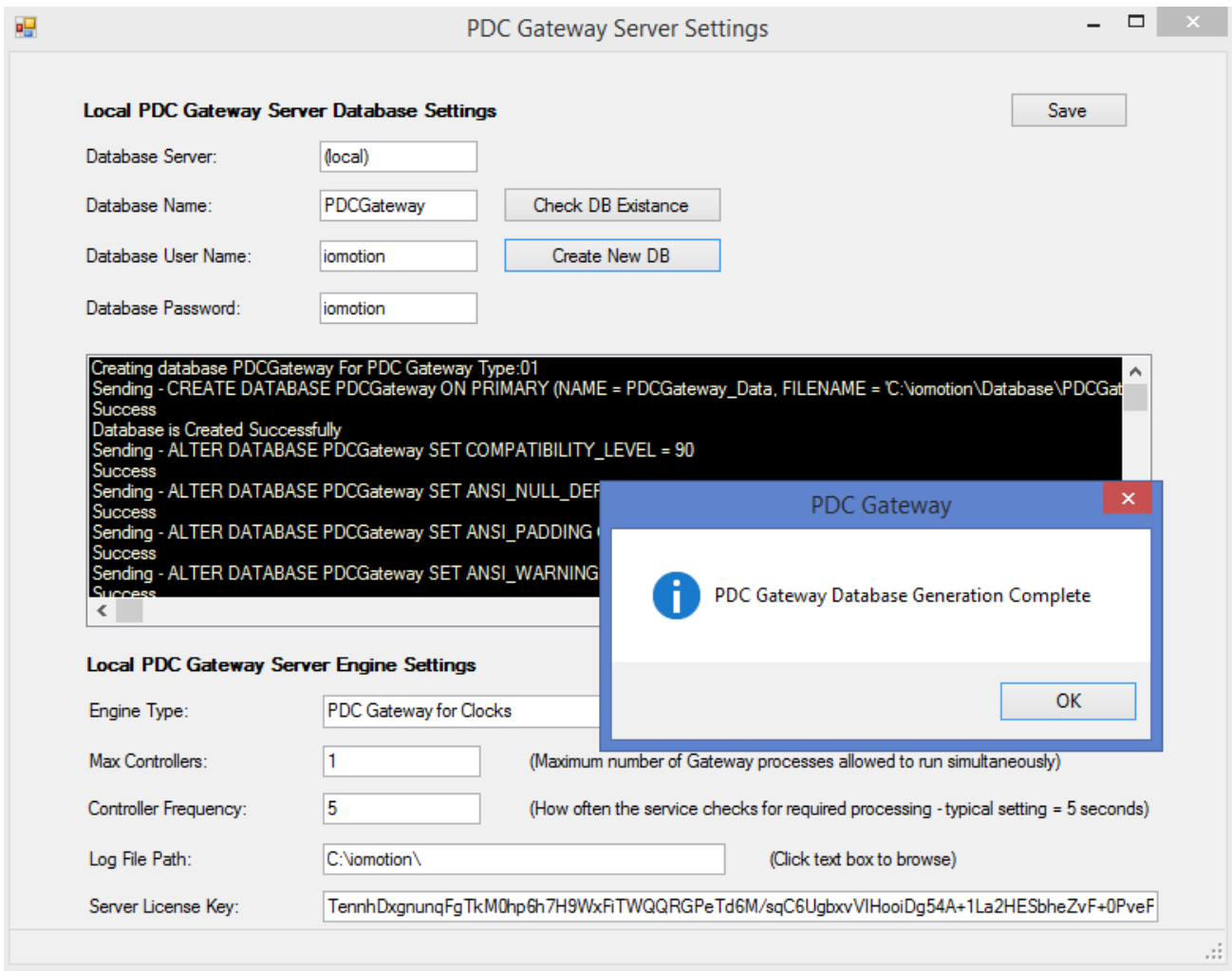
To generate a new blank database based on the above settings, click the “Create New Database” button. You will then get the following warning message...



Click the “Yes” button to create and populate the new database. It will confirm the location for the database files. This can be changed as needed. The default location is “c:\iomotion\database”.



When complete the following message should appear...



Close the Server Settings form and check that a new “(local)” connection is available under the “Connection” Menu.





When selected, the PDC Gateway Monitor should load the data from the newly created “(local)” database. The tabs at the top of the form are defined by the security key. The DEMO key provides the required tabs and features for a typical clock interface system. Other features like SAP interfaces can be turned on with key updates. Contact iomotion if there are requirements for other available features. The “Help” menu selection provides an “About” form that will outline the enabled and disabled features and tools.

The screenshot displays the PDC Gateway Monitor application window. The title bar reads "PDC Gateway Monitor". The menu bar includes "File", "Connection", "Help", "Local Server", and "Interface Server: (local)". A "Refresh All" button is located in the top right corner. Below the menu bar is a tabbed interface with tabs for "Current Status", "Statistics", "Projects", "Timers", "Kronos Clocks", "Globals", "Clock Punches", and "Employees".

The main content area is divided into several sections:

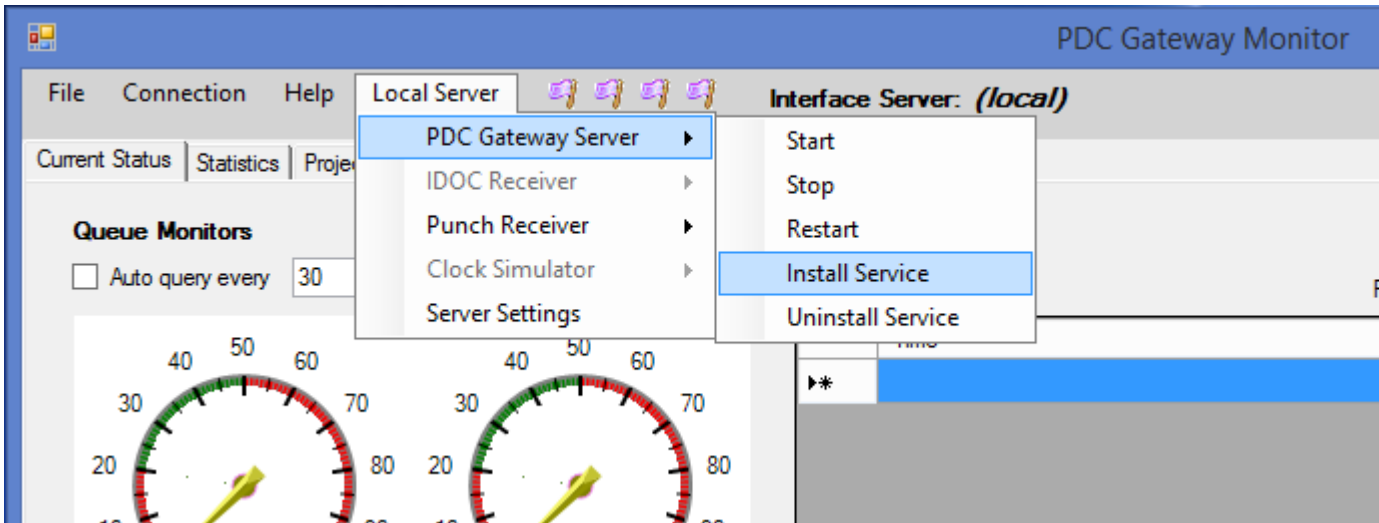
- Queue Monitors:** Includes a checkbox for "Auto query every" set to "30" seconds. Below this are eight circular gauges. The first four are labeled "Punches / Hour", "Punches / 24 Hours", "Punches / Minute", and "000001 Punches / Hour". The remaining four gauges are unlabeled.
- Current Alerts:** This section is currently empty.
- Current Processes:** Features a "Records to Display" dropdown set to "25". Below it is a table with the following structure:

Time	Description	Result
**		

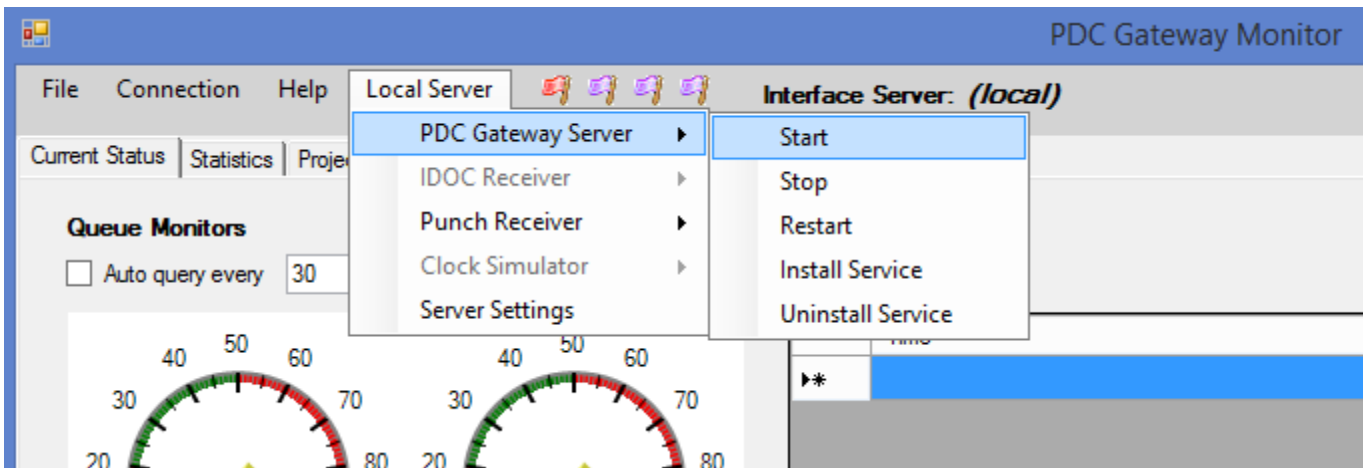
At the bottom of the window, a status bar indicates: "Current time on server: (local) is 1/13/2015 12:53:20 PM".

3.1 Server Services Initialization

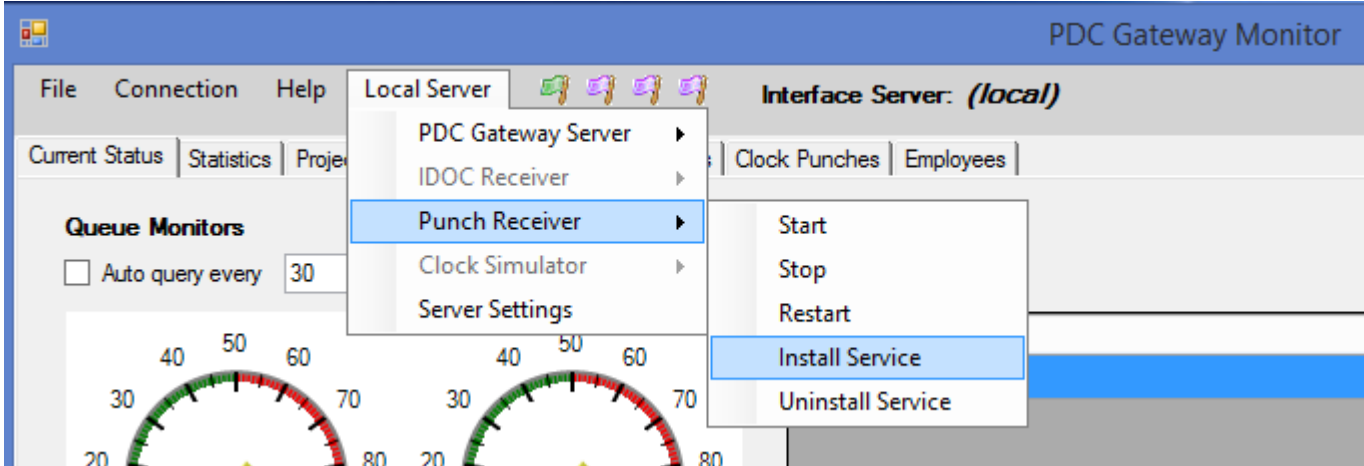
The PDC Gateway Server components are installed during the above procedure. In order for the services to be available they must be installed as services. Open the “Local Server” menu and select the “Install Service” under the “PDC Gateway Server” menu.



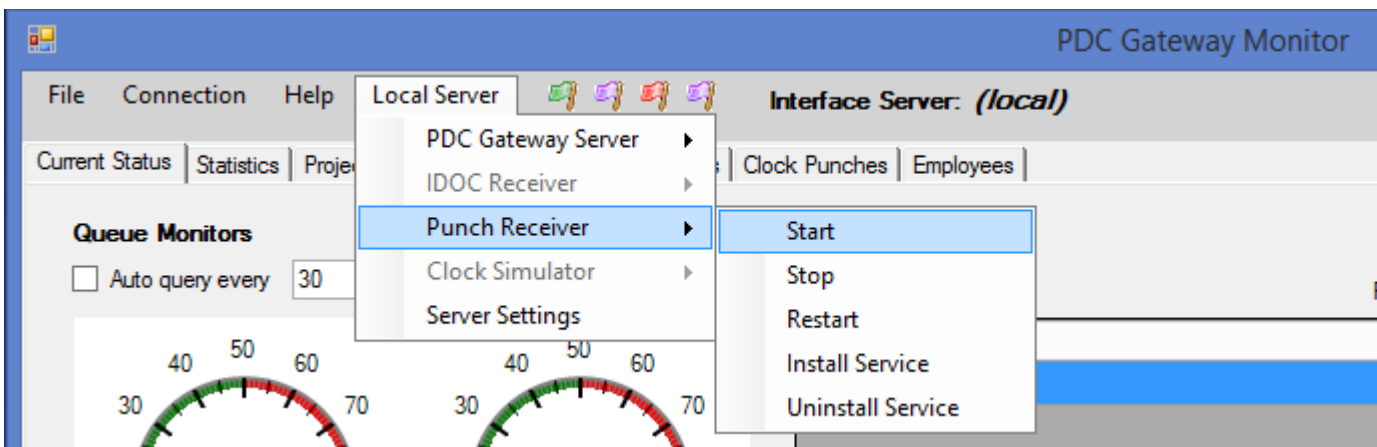
This will install the service and make it available to start. This condition is also indicated by the color of the first flag in the top menu. When this flag is red it indicates that the service is installed and ready to start. Next select the “Start” menu item and the flag should then turn green once the service has started successfully.



In a similar way, install the “Punch Receiver” service. The third flag represents this service which is required to communicate with the clocks.



Then start the “Punch Receiver” service.



At this point the PDC Gateway server components are running and ready to further configure to communicate with the clocks. The flags provide a quick and easy indicator to tell if the interface components are running as expected. The menu selections under the Local Server allow an easy way to stop and start the components as required.

3.2 Windows Event Viewer

The Windows Event Viewer should now show a PDC Gateway Log with details about the startup of each service. This can be helpful in the event that one of the services failed to start. It will indicate errors related to the general installation issues as well as security key violations. This event viewer is available in the Windows Administrative Tools found in the Windows Control Panel.

