

# **Power meter monitoring web application Documentation EN Blueprint Blueprint**

Made for: OTICS(THAILAND)CO., LTD.  
By: TOMAS TECH CO.,LTD.



## **TOMAS TECH**

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Revision History

Date	Version	File name	Details
19/Aug2024	R1	Power meter monitoring web application Documentation EN Blueprint	First edition

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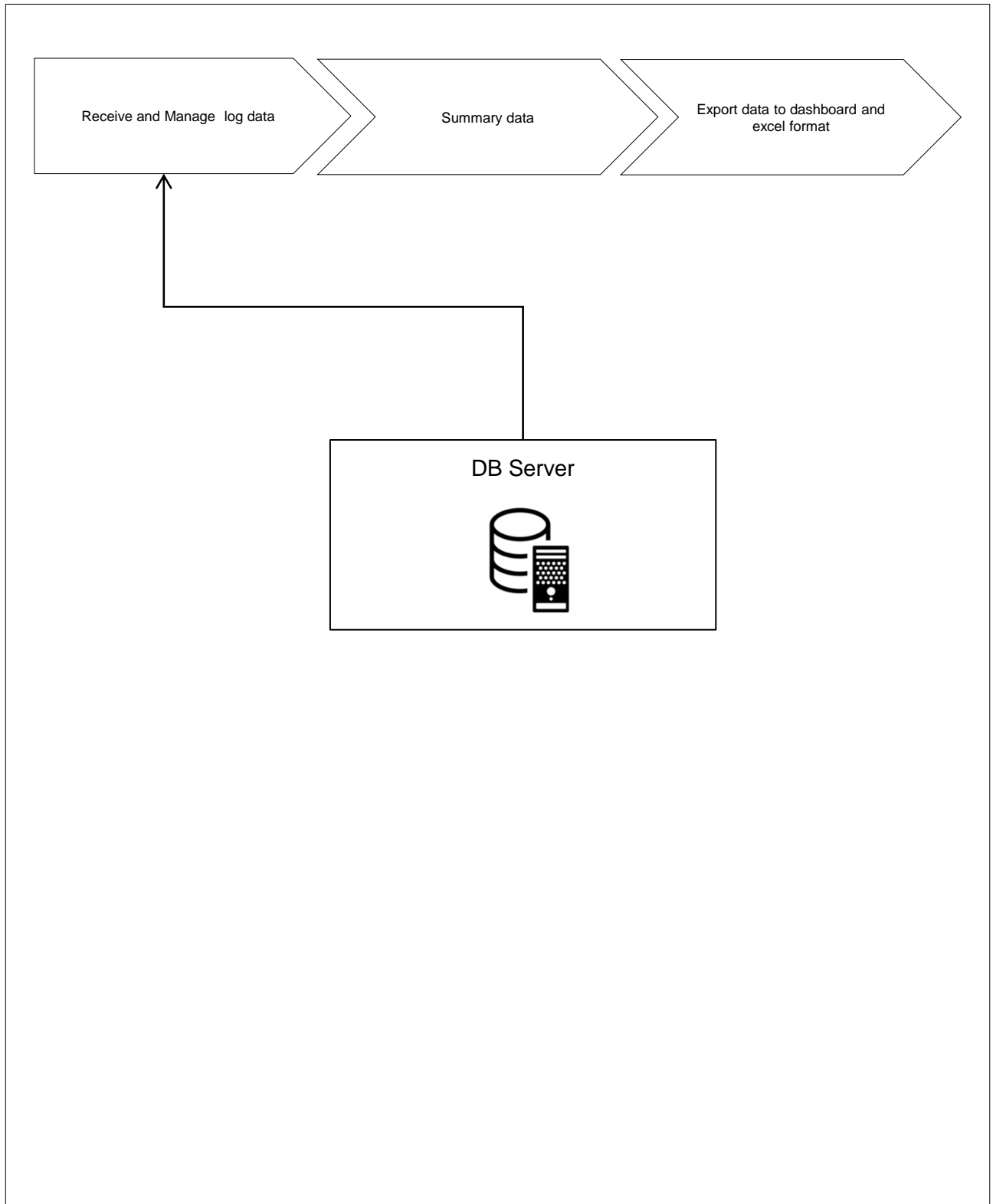
## **1. Overview**

Introduced Power meter monitoring web application to OTICS.  
The system specifications for introduction are described in this document.

## 2. Overall configuration diagram

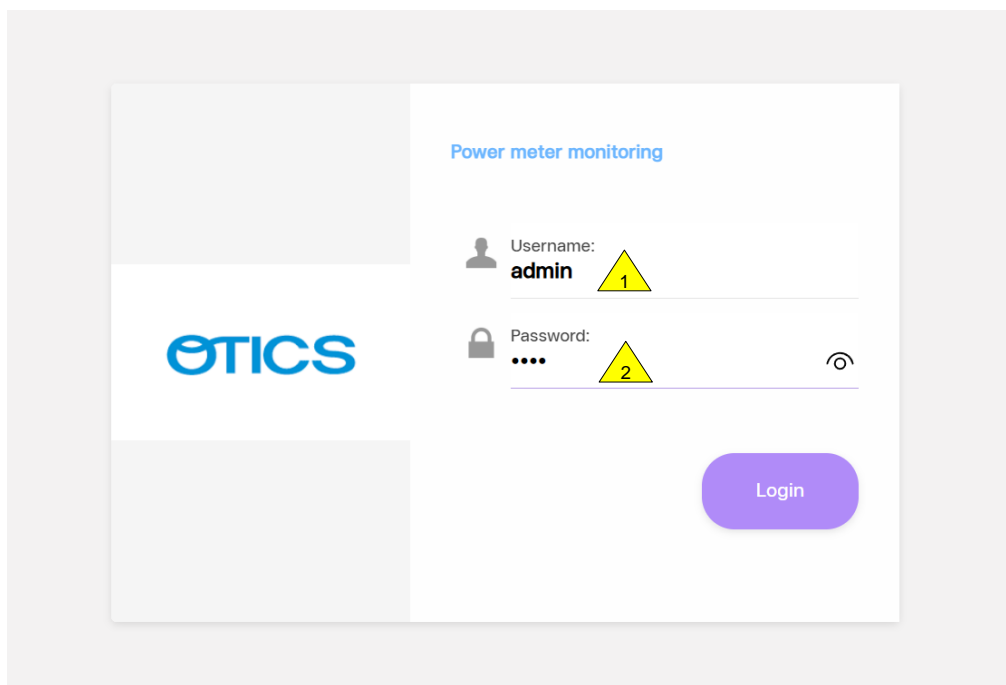
Represents a configuration diagram of the Power meter monitoring web application system. It is a configuration image of documents.

Overall configuration diagram image



### 3. Document image

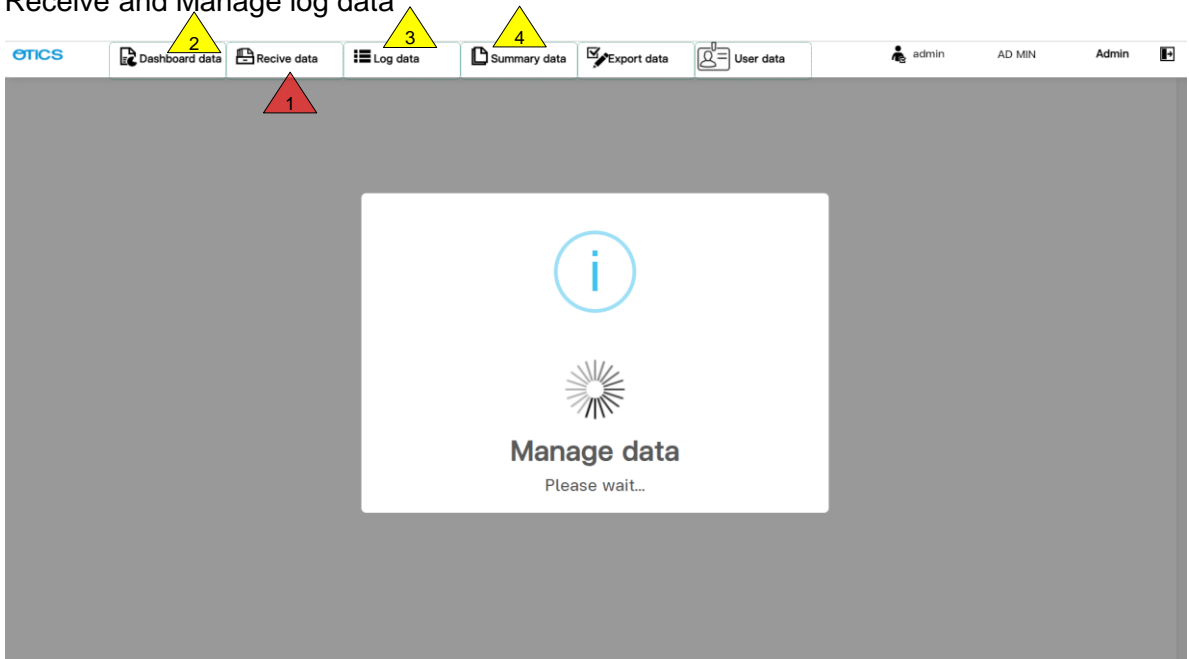
#### 3-1. Login



1. The first login is the default username 'admin'
2. The first login is the default password '1234'

### 3. Document image

#### 3-2. Receive and Manage log data



1. Menu Receive data.
2. Show cost summary information on dashboard.
3. Shows recorded data in a 60 minute period section.
3. Show cost summary information divided by month.
4. Show last time have been receive data.

### 3. Document image

#### 3-3. Log data

ETCS

Dashboard data

Recive data

Log data

Summary data

Export data

User data

admin

AD MIN

Admin

Log data

Date2024080108:00

To

Date2024083023:30

Show Data

No	Name	Date	Time	Peak(KWh)	On Peak_Rate/Unit	Off Peak(KWh)	Off Peak_Rate/Unit	Off Peak_Price(Baht)	Holidays (KWh)
1	LP-F1	2024.07.31	14:00:00	315.78	4.5	1,421.01	0.00	0	0.00
2	LP-F2	2024.07.31	14:00:00	282.64	4.5	1,271.88	0.00	0	0.00
3	LP-F1	2024.07.31	13:00:00	311.16	4.5	1,400.22	0.00	0	0.00
4	LP-F2	2024.07.31	13:00:00	294.69	4.5	1,326.11	0.00	0	0.00
5	LP-F1	2024.07.31	12:00:00	312.66	4.5	1,406.97	0.00	0	0.00
6	LP-F2	2024.07.31	12:00:00	294.20	4.5	1,323.90	0.00	0	0.00
7	LP-F1	2024.07.31	11:00:00	316.77	4.5	1,425.46	0.00	0	0.00
8	LP-F2	2024.07.31	11:00:00	269.36	4.5	1,212.12	0.00	0	0.00
9	LP-F1	2024.07.31	10:00:00	294.98	4.5	1,327.41	0.00	0	0.00
10	LP-F2	2024.07.31	10:00:00	314.55	4.5	1,415.48	0.00	0	0.00
11	LP-F1	2024.07.31	09:00:00	294.02	4.5	1,323.09	0.00	0	0.00
12	LP-F2	2024.07.31	09:00:00	271.02	4.5	1,219.59	0.00	0	0.00
13	LP-F1	2024.07.31	08:00:00	0.00	0	0.00	300.58	3.5	1,052.03
14	LP-F2	2024.07.31	08:00:00	320.47	4.5	1,442.12	0.00	0	0.00

1.

Menu Log data.
2.

Specify start date and time.
3.

Specify the end date and time.
4.

Calculate the value by subtracting the current hour's value from the previous hour's value.
5.

The value is calculated by subtracting the current hour's value from the previous hour's value and multiplying by the cost rate.



### 3. Document image

#### 3-4. Summary data

OTICS

Dashboard data

Recive data

Log data

Summary data

Export data

User data

adminAD MINAdmin

Summary data

Date2024070100:00

To

Date2024073123:59

Show Data

Main Box : 3AE 4 W 4007230 V (All Factory)

No	MDB Name	Day(Kwh)	Day(Baht)	Night(Kwh)	Night(Baht)	Holiday(Kwh)	Holiday(Baht)	All(Kwh)	All(Baht)
1	MP-RF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	LP-F1	190,854.53	771,079.41	0.00	0.00	28,629.62	115,488.48	219,484.15	886,567.89
3	LP-F2	221,044.84	994,701.20	0.00	0.00	0.00	0.00	221,044.84	994,701.20
4	MP-COM-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	MP-COM-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	ACP-HLA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	ACP-OF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	LP-OF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	ACP-CT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	AP-OF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	GUARD-HOUSE1(LP-GH1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	GUARD-HOUSE2(LP-GH2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	RO-PLANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		411,899.37	1,765,780.61	0.00	0.00	28,629.62	115,488.48	440,528.99	1,881,269.09

1. Menu Summary data.
2. Specify start date and time.
3. Specify the end date and time.

### 3. Document image

#### 3-5. Export data

OTICS

Dashboard data

Recive data

Log data

Summary data

Export data

User data

admin

AD MIN

Admin

Export data

Date2024070100:00

To

Date2024083102:59

Show Data

Export Data

1 of 1

Find | Next

Department

Maintenance

MDB 1 3E 4 W 400/230 V (All Factory)

No.	MDB Name	Jan									
		Day Kwh	Day Baht	Night Kwh	Night Baht	Holiday Kwh	Holiday Baht	All Kwh	All Baht	Day Kwh	Day Baht
1	MP-RF										
2	LP-F1										
3	LP-F2										
4	MP-COM-1										
5	MP-COM-2										
6	ACP-HLA										
7	ACP-OF										
8	LP-OF										
9	ACP-CT										
10	AP-OF										
11	GUARD-HOUSE1(LP.GH1)										

1. Menu Export data.

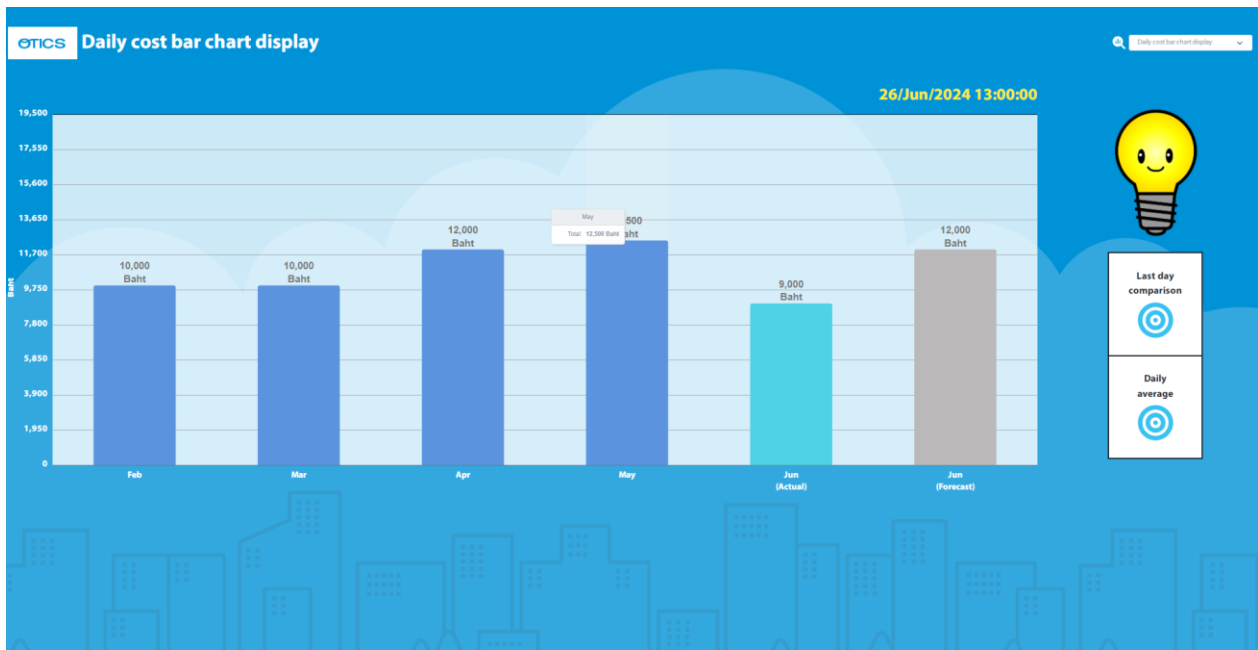
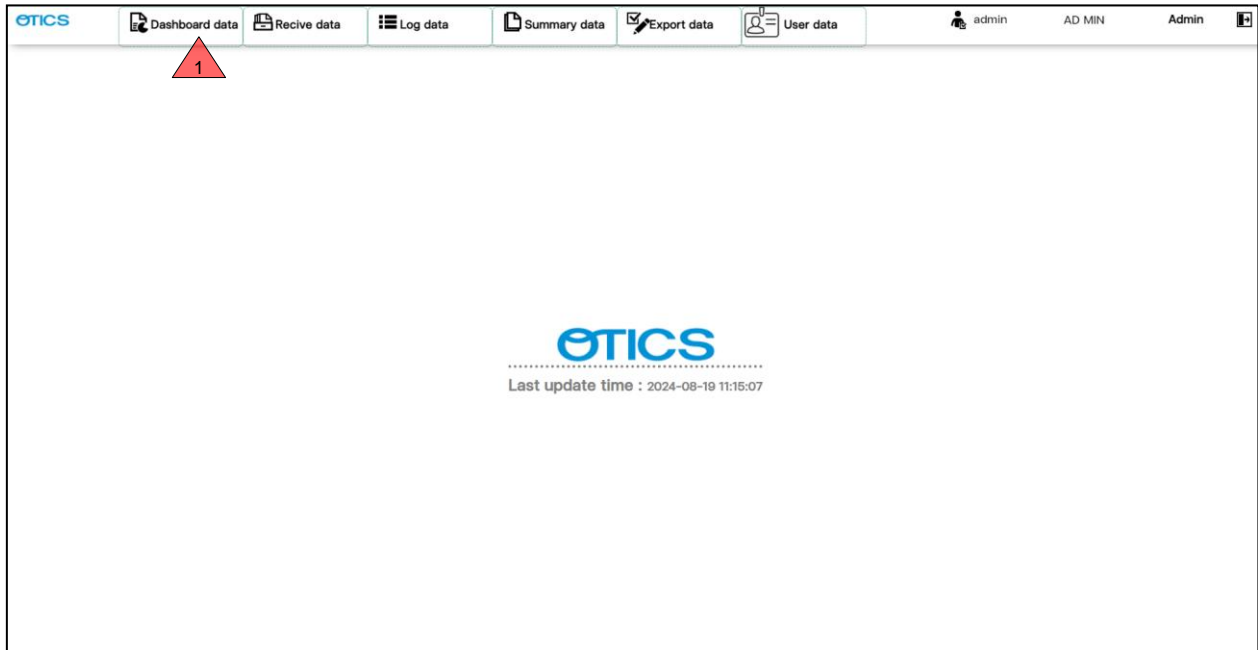
2. Specify start date and time.

3. Specify the end date and time.

4. Display summary data in Excel format and save file to PC server, folder name Excel log.

### 3. Document image

#### 3-6. Dashboard data



1. When you click on the Dashboard menu, there will be a screen showing graphs.

### 3. Document image

#### 3-7. User data

The screenshot shows the ETICS User data form. The top navigation bar includes the ETICS logo and several menu items: Dashboard data, Recive data, Log data, Summary data, Export data, and User data (highlighted with a red triangle labeled 1). The top right shows the user 'admin' with roles 'AD MIN' and 'Admin', and a logout icon (yellow triangle labeled 5). The form itself has a left sidebar with a user icon. The main form area contains fields for Username, Password, Confirm-Password, Name, Surname, Position, and Email. There is an 'Active status' toggle switch (yellow triangle labeled 2) and 'Save' (purple button, yellow triangle labeled 3) and 'Cancel' (red button, yellow triangle labeled 4) buttons at the bottom.

1. Menu User data.
2. Set status as active or inactive
3. Save or edit user profile.
4. Clear items in a form.
5. Logout.

## 3. Document image

### 3-8. Config connect to server

```
File Edit View

<?xml version="1.0"?>
<!--
  For more information on how to configure your ASP.NET application, please visit
  http://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
  <configSections>
    <!-- For more information on Entity Framework configuration, visit http://go.microsoft.com/fwlink/?LinkId=237468 -->
    <section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSection, EntityFramework,
    Version=5.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" requirePermission="false" />
  </configSections>
  <connectionStrings>
    <add name="ConnectionString" connectionString="Data Source=PC-SERVER\SQLEXPRESS;Initial Catalog=PowerMeter;Persist
    Security Info=True;User ID=sa;Password=piriy@123" providerName="System.Data.SqlClient"/>
  </connectionStrings>
  <system.web>

    <httpHandlers>
      <add path="Reserved.ReportViewerWebControl.axd" verb="*" type="Microsoft.Reporting.WebForms.HttpHandler,
      Microsoft.Reporting.WebForms, Version=11.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91"
      validate="false" />
    </httpHandlers>
    <compilation targetFramework="4.5">
      <buildProviders>
        <add extension=".rdlc" type="Microsoft.Reporting.RdlBuildProvider, Microsoft.Reporting.WebForms, Version=
        11.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91" />
      </buildProviders>
      <assemblies>
        <add assembly="Microsoft.Reporting.WebForms, Version=11.0.0.0, Culture=neutral, PublicKeyToken=89845DCD8080CC91"
```

1. ConnectionString: It's point to PowerMeter database. (file name is Web.config)

#### 4. Q&A

## 5. Sign off

We hereby acknowledge and agree the above-mentioned blueprint requirements.  
Any changes required after the sign off for this blueprint will be addressed through the change request process.

**OTICS(Thailand)Co., Ltd.**

**Sign:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**TOMAS TECH CO.,LTD.**

**Sign:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**## END OF BLUEPRINT##**