

## Minimum System Requirements

( Last update 2019/08/08 )

### For ecTA / ecPayroll Windows-based main program

	Server	Work Station
<b>Operating System</b>	MS Windows Server 2008R2 / 2012 / 2012R2 / 2016 / 2019	MS Windows XP / Vista / 7 / 8 / 8.1 / 10
<b>Pre-installed Software</b>	MS SQL Server 2008 / 2008 R2 / 2012 / 2014 / 2016 / 2017 Standard or Express Edition	MS Excel 2002 / 2003 / 2007 / 2010 / 2013 / 2016 / 2019
<b>Minimum Hardware Requirement</b>	<ul style="list-style-type: none"> <li>• Intel Core i3 CPU (or same grade)</li> <li>• 2 GB Ram</li> <li>• 50 GB free hard disk space</li> <li>• Standard keyboard &amp; mouse</li> <li>• LAN (Local Area Network)</li> </ul>	<ul style="list-style-type: none"> <li>• Intel Core 2 Duo CPU (or same grade)</li> <li>• 1 GB Ram</li> <li>• 1 GB free hard disk space</li> <li>• Standard keyboard &amp; mouse</li> <li>• VGA display with 1280 x 768 resolution</li> <li>• LAN (Local Area Network)</li> </ul>
<b>Locale</b>	<ul style="list-style-type: none"> <li>• Short Date format : Any 1 of below                             <ul style="list-style-type: none"> <li>• d/M/yyyy</li> <li>• dd/MM/yyyy</li> <li>• yyyy/MM/dd</li> <li>• yyyy/M/d</li> <li>• d-M-yyyy</li> <li>• dd-MM-yyyy</li> <li>• yyyy-MM-dd</li> <li>• yyyy-M-d</li> </ul> </li> <li>• Language for non-Unicode programs : Traditional Chinese ( For running system in Chinese only)</li> </ul>	<ul style="list-style-type: none"> <li>• Short Date format : Any 1 of below                             <ul style="list-style-type: none"> <li>• d/M/yyyy</li> <li>• dd/MM/yyyy</li> <li>• yyyy/MM/dd</li> <li>• yyyy/M/d</li> <li>• d-M-yyyy</li> <li>• dd-MM-yyyy</li> <li>• yyyy-MM-dd</li> <li>• yyyy-M-d</li> </ul> </li> <li>• Language for non-Unicode programs : Traditional Chinese ( For running system in Chinese only)</li> </ul>
<b>Share Folder(s)</b>	<ul style="list-style-type: none"> <li>• Share below folder(s) with “<b>Full Control</b>” permission                             <ul style="list-style-type: none"> <li>• \\{Server}\{TAMS}</li> </ul> </li> </ul>	---

### For All Web Modules

	Server	Work Station
<b>Web Server</b>	MS IIS 7.5 / 8.0 / 8.5 / 10  * <b>HTTPS</b> is required for “GPS” related functions	---
<b>.Net Framework</b>	4.0 and 4.5 / 4.6 / 4.7  * If required, Microsoft .Net Framework will be downloaded during system installation.)	---
<b>Pre-installed Software</b>	MS Excel 2007 / 2010 / 2013 / 2016 / 2019	---
<b>User Right</b>	<p>A Windows user account with “<b>Administrator</b>” permission for web server Application pool and Component service.</p> <p>Grant “<b>IIS User</b>” with “<b>Full Control</b>” right on below folders:</p> <ul style="list-style-type: none"> <li>• C:\Windows\SysWOW64\config\systemprofile\Desktop\</li> <li>• C:\Windows\System32\config\systemprofile\Desktop\</li> <li>• C:\inetpub\wwwroot\{e/leave}\</li> <li>• C:\inetpub\wwwroot\{retail}\</li> <li>• \\{Server}\TAMS\</li> </ul>	---
<b>Web browser</b>	---	MS Internet Explorer 6 / 7 / 8 / 9 / 10 / 11 MS Edge 42 – 44 Google Chrome 70 – 75

**For E-mail related Modules**

	<b>Server</b>	<b>Work Station</b>
<b>SMTP Server</b>	Available to send out e-mail with no encryption (e.g. TLS, SSL)	---
<b>Email Address</b>	Pre-defined sender email address	---

**For Remote Site(s) connection**

	<b>Headquarters (Server)</b>	<b>Remote Site(s)</b>
<b>Network</b> (For <b>all web modules</b> )	Broadband internet with <b>fixed IP</b> Port forwarding to Web Server in router OR <b>VPN</b> (Virtual Private Network) connected	Broadband internet OR <b>VPN</b> (Virtual Private Network) connected
<b>Network</b> (For <b>time clock device</b> )	Broadband internet OR <b>VPN</b> (Virtual Private Network) connected	Broadband internet with <b>fixed IP</b> Port forwarding to device in router OR <b>VPN</b> (Virtual Private Network) connected