

ApeosWare Management Suite 2 Operating Environment

Operating Environment of Entry Edition

| Item | Description |
|---|--|
| Supported Operating System *1 | Windows 10 Pro (32bit) ^{*2} Windows 10 Pro (64bit) ^{*2 *3} Windows 10 Enterprise (32bit) ^{*2} Windows 10 Enterprise (64bit) ^{*2 *3} Windows 10 Education (32bit) ^{*2} Windows 10 Education (64bit) ^{*2 *3} Windows 8.1 Pro Update (32bit) ^{*2} Windows 8.1 Pro Update (64bit) ^{*2 *3 *4} Windows 8.1 Pro (32bit) ^{*2} Windows 8.1 Pro (64bit) ^{*2 *3 *4} Windows 7 Professional (32bit) [Service Pack 1] ^{*2} Windows 7 Professional (64bit) [Service Pack 1] ^{*2 *3} Windows 7 Enterprise (32bit) [Service Pack 1] ^{*2} Windows 7 Enterprise (64bit) [Service Pack 1] ^{*2 *3} Windows Server 2016 Standard (64bit) ^{*3 *5 *6} Windows Server 2016 Datacenter (64bit) ^{*3 *5 *6} Windows Server 2012 R2 Standard (64bit) ^{*3 *4 *5} Windows Server 2012 R2 Datacenter (64bit) ^{*3 *4 *5} Windows Server 2012 Standard (64bit) ^{*3 *5} Windows Server 2008 R2 Standard (64bit) [without a Service Pack, Service Pack 1] ^{*3 *5} Windows Server 2008 R2 Enterprise (64bit) [without a Service Pack, Service Pack 1] ^{*3 *5} Windows Server 2008 Standard (32bit) [Service Pack 2] ^{*5} Windows Server 2008 Enterprise (32bit) [Service Pack 2] ^{*5} |
| CPU | [Windows Server 2016, Windows Server 2012 R2, Windows Server 2012, Windows Server 2008 R2, Windows Server 2008] Minimum: Intel® Xeon® E5506 2.13 GHz or equivalent (4 cores and above) ^{*7} Recommendation: Intel® Xeon® X3450 2.67 GHz or equivalent or higher (4 cores and above) [Windows 10, Windows 8.1, Windows 7] Intel® Core™ 2 Duo 2.0 GHz or equivalent or higher (2 cores and above) |
| Hard disk capacity *8 *9 | [When Flow Management Option is not added] System Drive: 20 GB or more Installation Drive: 10 GB or more Data Storage Drive: 70 GB or more [When Flow Management Option is added] System Drive: 35 GB or more Installation Drive: 15 GB or more Data Storage Drive: 100 GB or more |
| Memory capacity | See the table at the below |
| Network | Protocol: TCP/IP |

| Item | Description |
|--------------------------|--|
| Display | XGA (1024 x 768 pixels and above), Full Colour |
| Web Service | Internet Information Services 10.0 Internet Information Services 8.5 Internet Information Services 8.0 Internet Information Services 7.5 Internet Information Services 7.0 |
| Required hardware | DVD-ROM Drive |
| Required software | Microsoft .NET Framework 4.6 (for Microsoft SQL Server 2016) ^{*10} Microsoft .NET Framework 4.5.2 (except for Microsoft SQL Server 2016) ^{*10} Microsoft .NET Framework 3.5.1 (Windows 10, Windows 8.1, Windows 7, Windows Server 2008 R2) Microsoft .NET Framework 3.5 (includes .NET 2.0 and 3.0) (Windows Server 2016, Windows Server 2012 R2, Windows Server 2012) Microsoft .NET Framework 3.5 [Service Pack 1] (Windows Server 2008) Microsoft SQL Server 2016 Standard (64bit) [Service Pack 1/2] Microsoft SQL Server 2014 Express (32bit) [Service Pack 2] Microsoft SQL Server 2012 Standard [Service Pack 3/4] ^{*11 *12} Microsoft SQL Server 2012 Express [Service Pack 3/4] ^{*11 *12} |

- *1: Installation cannot be performed in the OS where domain controller is running. Installation cannot be performed in the OS which supports Intel® Itanium® Processor. If you want to create a PC in a virtual environment, assign the same resources as above "Hardware". Even if you assign the same resources as above "Hardware", you may see performance degradation depending on the operating circumstances of the host PC.
- *2: Multi-touch feature is not supported. The operations of features other than "Device Management", "User Management", "Job Log Management", "Accounting Report Creation", "Document Delivery by Flow", "Server Monitoring" are not guaranteed.
- *3: For 64-bit versions, ApeosWare Management Suite 2 software will run on WOW64 (Windows 32-bit on Windows 64-bit) emulation layer subsystem.
- *4: When installing and using Microsoft SQL Server 2016, it is necessary to apply Windows Updates KB2919442 and KB2919355 in advance to the OS.
- *5: Server Core Option is not supported. When installing the OS, do not select Server Core Option.
- *6: Nano Server Option is not supported. When installing the OS, do not select Nano Server Option.
- *7: Performance may be degraded when large amounts of data are handled.
- *8: If the same disk drive is used for multiple drives, the disk space required will be the sum of those drives.
- *9: Capacity is calculated for data of one month (8 hours/day x 20 days). Increase hard disk space or back up some operation logs to a different storage medium as needed.
- *10: Pre-installed version is supported if compatible newer Microsoft .NET Framework version is pre-installed on supported OS.
- *11: Apply Service Pack of same language as SQL Server. The SQL Server Express (x86) that comes bundled with the product package is the English Edition. Please apply the corresponding English Service Pack.
- *12: If your OS is 64-bit and SQL Server 2012 is 32 bit, after applying Service Pack, install the following 64-bit Microsoft SQL Server System CLR Types (x64) [File Name: ENU\x64\SQLSysClrTypes.msi] from Microsoft SQL Server 2012 Feature Pack.
- Microsoft SQL Server 2012 SP3 Feature Pack:
<https://www.microsoft.com/en-US/download/details.aspx?id=49999>
- Microsoft SQL Server 2012 SP4 Feature Pack:
<https://www.microsoft.com/en-US/download/details.aspx?id=56041>
Use Feature Pack with the same number as Service Pack.

Required memory capacity for the operating environment of ApeosWare Management Suite 2 Entry Edition [Windows Server 2008 / Windows Server 2008 R2 / Windows Server 2012 / Windows Server 2012 R2 / Windows Server 2016]

| Item | Description | |
|-----------------------------------|-----------------------------------|-----------------------------------|
| | 2 GB or larger | 4 GB or larger |
| None | Possible to perform ^{*1} | Possible to perform |
| If Cost Recovery Option is used | Impossible to perform | Possible to perform |
| If On-Demand Print Option is used | Impossible to perform | Possible to perform |
| If Flow Management Option is used | Impossible to perform | Possible to perform ^{*2} |

*1: 4 GB or more is required if any of the following is used.

- Print Management
- Scan Settings

*2: 8 GB or more is required if any of the following is used together with Flow Management Option.

- Print Management
- Scan Settings
- Cost Management

Required memory capacity for the operating environment of ApeosWare Management Suite 2 Entry Edition [Windows 7 / Windows 8.1 / Windows 10]

| Item | Description | |
|-----------------------------------|-----------------------|-----------------------|
| | 2 GB or larger | 4 GB or larger |
| None | Possible to perform | Possible to perform |
| If Cost Recovery Option is used | Impossible to perform | Impossible to perform |
| If On-Demand Print Option is used | Impossible to perform | Impossible to perform |
| If Flow Management Option is used | Impossible to perform | Possible to perform |

Operating Environment of Enterprise Edition

| Item | Description |
|--|---|
| Supported Operating System ^{*1} | Windows Server 2016 Standard (64bit) ^{*2 *3 *4} |
| | Windows Server 2016 Datacenter (64bit) ^{*2 *3 *4} |
| | Windows Server 2012 R2 Standard (64bit) ^{*2 *3 *5} |
| | Windows Server 2012 R2 Datacenter (64bit) ^{*2 *3 *5} |
| | Windows Server 2012 Standard (64bit) ^{*2 *3} |

| Item | Description |
|---|--|
| | Windows Server 2008 R2 Standard (64bit) [without a Service Pack, Service Pack 1] ^{*2 *3} Windows Server 2008 R2 Enterprise (64bit) [without a Service Pack, Service Pack 1] ^{*2 *3} Windows Server 2008 Standard (32bit) [Service Pack 2] ^{*3} Windows Server 2008 Enterprise (32bit) [Service Pack 2] ^{*3} |
| CPU | Minimum: Intel® Xeon® E5506 2.13 GHz or equivalent (4 cores and above) ^{*6} Recommendation: Intel® Xeon® X3450 2.67 GHz or equivalent or higher (4 cores and above) |
| Hard disk capacity ^{*7 *8} | [When Flow Management Option is not added] System Drive: 20 GB or more Installation Drive: 10 GB or more Data Storage Drive: 70 GB or more [When Flow Management Option is added] System Drive: 35 GB or more Installation Drive: 15 GB or more Data Storage Drive: 100 GB or more |
| Memory capacity ^{*9} | 4 GB or larger |
| Network | Protocol: TCP/IP |
| Display | XGA (1024 x 768 pixels and above), Full Colour |
| Web Service | Internet Information Services 10.0 Internet Information Services 8.5 Internet Information Services 8.0 Internet Information Services 7.5 Internet Information Services 7.0 |
| Required hardware | DVD-ROM Drive |
| Required software | Microsoft .NET Framework 4.6 (for Microsoft SQL Server 2016) ^{*10} Microsoft .NET Framework 4.5.2 (except for Microsoft SQL Server 2016) ^{*10} Microsoft .NET Framework 3.5.1 (Windows Server 2008 R2) Microsoft .NET Framework 3.5 (includes .NET 2.0 and 3.0) (Windows Server 2016, Windows Server 2012 R2, Windows Server 2012) Microsoft .NET Framework 3.5 [Service Pack 1] (Windows Server 2008) Microsoft SQL Server 2016 Standard (64bit) [Service Pack 1/2] Microsoft SQL Server 2014 Express (32bit) [Service Pack 2] Microsoft SQL Server 2012 Standard [Service Pack 3/4] ^{*11 *12} Microsoft SQL Server 2012 Express [Service Pack 3/4] ^{*11 *12} |

- *1: Installation cannot be performed in the OS where domain controller is running. Installation cannot be performed in the OS which supports Intel® Itanium® Processor. If you want to create a PC in a virtual environment, assign the same resources as above "Hardware". Even if you assign the same resources as above "Hardware", you may see performance degradation depending on the operating circumstances of the host PC.
- *2: For 64-bit versions, ApeosWare Management Suite 2 software will run on WOW64 (Windows 32-bit on Windows 64-bit) emulation layer subsystem.
- *3: Server Core Option is not supported. When installing the OS, do not select Server Core Option.
- *4: Nano Server Option is not supported. When installing the OS, do not select Nano Server Option.
- *5: When installing and using Microsoft SQL Server 2016, it is necessary to apply Windows Updates KB2919442

and KB2919355 in advance to the OS.

- *6: Performance may be degraded when large amounts of data are handled.
- *7: If the same disk drive is used for multiple drives, the disk space required will be the sum of those drives.
- *8: Capacity is calculated for data of one month (8 hours/day x 20 days). Increase hard disk space or back up some operation logs to a different storage medium as needed.
- *9: 8 GB or more is required if any of the following is used together with Flow Management Option.
 - Print Management
 - Scan Settings
 - Cost Management
- *10: Pre-installed version is supported if compatible newer Microsoft .NET Framework version is pre-installed on supported OS.
- *11: Apply Service Pack of same language as SQL Server. The SQL Server Express (x86) that comes bundled with the product package is the English Edition. Please apply the corresponding English Service Pack.
- *12: If your OS is 64-bit and SQL Server 2012 is 32 bit, after applying Service Pack, install the following 64-bit Microsoft SQL Server System CLR Types (x64) [File Name: ENU\x64\SQLSysClrTypes.msi] from Microsoft SQL Server 2012 Feature Pack.
 - Microsoft SQL Server 2012 SP3 Feature Pack:
<https://www.microsoft.com/en-US/download/details.aspx?id=49999>
 - Microsoft SQL Server 2012 SP4 Feature Pack:
<https://www.microsoft.com/en-US/download/details.aspx?id=56041>
 Use Feature Pack with the same number as Service Pack.

Operating Environment of Web Client

| Item | Description |
|-----------------------------------|---|
| Supported Operating System | Windows 10 Pro (32bit) ^{*1} Windows 10 Pro (64bit) ^{*1} Windows 10 Enterprise (32bit) ^{*1} Windows 10 Enterprise (64bit) ^{*1} Windows 10 Education (32bit) ^{*1} Windows 10 Education (64bit) ^{*1} Windows 8.1 Pro Update (32bit) Windows 8.1 Pro Update (64bit) Windows 8.1 Pro (32bit) Windows 8.1 Pro (64bit) Windows 7 Professional (32bit) [Service Pack 1] Windows 7 Professional (64bit) [Service Pack 1] Windows 7 Enterprise (32bit) [Service Pack 1] Windows 7 Enterprise (64bit) [Service Pack 1] Windows Server 2016 Standard (64bit) Windows Server 2016 Datacenter (64bit) Windows Server 2012 R2 Standard (64bit) Windows Server 2012 Standard (64bit) Windows Server 2008 R2 Standard (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 R2 Enterprise (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 Standard (32bit) [Service Pack 2] Windows Server 2008 Enterprise (32bit) [Service Pack 2] |
| Network | Protocol: TCP/IP |
| Web Browser ^{*2} | Internet Explorer 11 |

| Item | Description |
|------|--|
| | Windows Internet Explorer 10 Windows Internet Explorer 9 Mozilla Firefox 37.0 Mozilla Firefox 36.0 Google Chrome™ 48 |

*1: Microsoft Edge is not supported.

*2: Please enable JavaScript™ and ActiveX Control. Please disable [Internet Explorer Enhanced Security Configuration] when using Windows Internet Explorer in Windows Server 2008, Windows Server 2012.

Operating Environment of Print Client (Microsoft Windows PC)

| Item | Description |
|-----------------------------------|---|
| Supported Operating System | Windows 10 Pro (32bit) Windows 10 Pro (64bit) Windows 10 Enterprise (32bit) Windows 10 Enterprise (64bit) Windows 10 Education (32bit) Windows 10 Education (64bit) Windows 8.1 Pro Update (32bit) Windows 8.1 Pro Update (64bit) Windows 8.1 Pro (32bit) Windows 8.1 Pro (64bit) Windows 7 Professional (32bit) [Service Pack 1] Windows 7 Professional (64bit) [Service Pack 1] Windows 7 Enterprise (32bit) [Service Pack 1] Windows 7 Enterprise (64bit) [Service Pack 1] Windows Server 2016 Standard (64bit) Windows Server 2016 Datacenter (64bit) Windows Server 2012 R2 Standard (64bit) Windows Server 2012 Standard (64bit) Windows Server 2008 R2 Standard (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 R2 Enterprise (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 Standard (32bit) [Service Pack 2] Windows Server 2008 Enterprise (32bit) [Service Pack 2] |
| Network | Protocol: TCP/IP |

Operating Environment of Print Client (Linux)

| Item | Description |
|-----------------------------------|---|
| Supported Operating System | Red Hat® Enterprise Linux® 7 Vine Linux® 6.2 CR Ubuntu® 14.04 LTS CentOS 7.0 |

| Item | Description |
|---------|------------------|
| Network | Protocol: TCP/IP |

Operating Environment of Print Client (Mac OS)

| Item | Description |
|----------------------------|---|
| Supported Operating System | macOS 10.14 Mojave macOS 10.13 High Sierra macOS 10.12 Sierra OS X 10.11 El Capitan OS X 10.10 Yosemite OS X 10.9 Mavericks OS X 10.8 Mountain Lion Mac OS X 10.7.5 Lion Mac OS X 10.7.4 Lion Mac OS X 10.7.3 Lion |
| Network | Protocol: TCP/IP |

Operating Environment of Print Client (iOS)

| Item | Description |
|-------------------|---------------------------------|
| Required software | Print Utility for iOS 1.2 - 2.4 |

Operating Environment of Print Client (Android™)

| Item | Description |
|-------------------|-------------------------------------|
| Required software | Print Utility for Android 1.3 - 2.4 |

Operating Environment of user information self-registration feature

| Item | Description |
|-------------------|--|
| Web Browser *1 | Internet Explorer 11 Windows Internet Explorer 10 Windows Internet Explorer 9 |
| Required hardware | [Smart Card Reader *2] - PaSoRi RC-S320 - PaSoRi RC-S330 - PaSoRi RC-S340 - PaSoRi RC-S360 - PaSoRi RC-S370 - PaSoRi RC-S380 |

Note: The same operating environment as the Web Client is required for supported operating systems and networks.

*1: Only 32-bit Web browsers are supported.

*2: You must install FeliCa port software for the above smart card readers.

Operating Environment of AWMS Mobile (iOS)

| Item | Description |
|-----------------------------------|--|
| Supported Operating System | iOS 13 iOS 12 iOS 11 |
| Hardware | iPad (5th generation), iPad Air, iPad Air 2, iPad mini 2, iPad mini 3, iPad mini 4, 9.7-inch iPad Pro, 10.5-inch iPad Pro, 12.9-inch iPad Pro, 12.9-inch iPad Pro (2nd generation), 12.9-inch iPad Pro (3rd generation), iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPhone SE, iPhone 7, iPhone 7 Plus, iPhone 8, iPhone 8 Plus, iPhone X, iPhone XS Max, iPhone XR, iPod touch (6th generation) |
| Storage space | 1 GB or larger (Free disk space available for users) |

Operating Environment of AWMS Mobile (Android™)

| Item | Description |
|-----------------------------------|--|
| Supported Operating System | Android™ 9 Android™ 8 Android™ 7 Android™ 6 Android™ 5 Android™ 4 |
| Processor | ARM compatible processor |
| Screen resolution | 1280 x 720 pixels and above |
| Screen Size | 4.5 inches or more |
| Storage space | 1 GB or larger (Free disk space available for users) |

Operating Environment of Device Setup

| Item | Description |
|-----------------------------------|---|
| Supported Operating System | Windows 10 Pro (32bit) ^{*1} Windows 10 Pro (64bit) ^{*1} Windows 10 Enterprise (32bit) ^{*1} Windows 10 Enterprise (64bit) ^{*1} Windows 10 Education (32bit) ^{*1} Windows 10 Education (64bit) ^{*1} Windows 8.1 Pro Update (32bit) ^{*1} Windows 8.1 Pro Update (64bit) ^{*1} Windows 8.1 Pro (32bit) ^{*1} Windows 8.1 Pro (64bit) ^{*1} Windows 7 Professional (32bit) [Service Pack 1] ^{*1} Windows 7 Professional (64bit) [Service Pack 1] ^{*1} Windows 7 Enterprise (32bit) [Service Pack 1] ^{*1} |

| Item | Description |
|---------------------------------|---|
| | Windows 7 Enterprise (64bit) [Service Pack 1] *1 Windows Server 2012 Standard (64bit) *1 Windows Server 2008 R2 Standard (64bit) [without a Service Pack, Service Pack 1] *1 Windows Server 2008 R2 Enterprise (64bit) [without a Service Pack, Service Pack 1] *1 Windows Server 2008 Standard [Service Pack 1/2] *1 Windows Server 2008 Enterprise [Service Pack 1/2] *1 |
| CPU | An x86 compatible CPU machine with Pentium® III 450 MHz or equivalent or higher |
| Hard disk capacity *2 | 200 GB or more free space |
| Memory capacity | 256 MB or larger |
| Display | SVGA (800 x 600 pixels) and above (1024 x 768 pixels and above is recommended) |
| Web Browser | Internet Explorer 11 Windows Internet Explorer 10 Windows Internet Explorer 9 |
| Device Setup Input Tool | Microsoft Excel 2010 (32bit) Microsoft Excel 2013 (32bit) Microsoft Excel 2016 (32bit) Supported Services: Address Book, Access Permissions, Mailbox, Job Flow Sheet |

Note: If you are using Windows Server 2008, make sure your computer fulfils the system requirement for Windows Server 2008.

Note: For 64-bit versions, Device Setup software will run on WOW64 (Windows 32-bit on Windows 64-bit) emulation layer subsystem.

Note: You must install all patches provided by Microsoft with the following severity levels.
- Critical
- Important

Note: When upgrading Windows OS, please uninstall Device Setup beforehand. Then install Device Setup after upgrading.

*1: IPv6 address can be used for searching device, and communicating with device.

*2: 100 MB and above during operation, 200 MB and above during installation.

Operating Environment of Driver Distributor

| Item | Description |
|-----------------------------------|---|
| Supported Operating System | Windows 10 Pro (32bit) Windows 10 Education (32bit) Windows 8.1 Pro Update (32bit) Windows 8.1 Pro (32bit) Windows 7 (32bit) [Service Pack 1] |
| CPU | Pentium® III 450 MHz or equivalent or higher |
| Hard disk capacity | 400 MB or more free space |

| Item | Description |
|--------------------------|--|
| Memory capacity | 256 MB or larger (1 GB and above is recommended) |
| Display | VGA (640 x 480 pixels) and above (SVGA (800 x 600 pixels) and above is recommended) |
| Required hardware | DVD-R Drive or CD-R Drive (to create distribution CD writing software is required) |

Note: You must install all patches provided by Microsoft with the following severity levels.

- Critical
- Important

Operating Environment of Driver Distributor x64 Edition

| Item | Description |
|-----------------------------------|---|
| Supported Operating System | Windows 10 Pro (64bit) Windows 10 Education (64bit) Windows 8.1 Pro Update (64bit) Windows 8.1 Pro (64bit) Windows 7 (64bit) [Service Pack 1] |
| CPU | Pentium® III 450 MHz or equivalent or higher |
| Hard disk capacity | 400 MB or more free space |
| Memory capacity | 256 MB or larger (1 GB and above is recommended) |
| Display | VGA (640 x 480 pixels) and above (SVGA (800 x 600 pixels) and above is recommended) |
| Required hardware | DVD-R Drive or CD-R Drive (to create distribution CD writing software is required) |

Note: For 64-bit versions, Driver Distributor x64 Edition software will run on WOW64 (Windows 32-bit on Windows 64-bit) emulation layer subsystem.

Note: You must install all patches provided by Microsoft with the following severity levels.

- Critical
- Important

Operating Environment of Printer Check

| Item | Description |
|-----------------------------------|--|
| Supported Operating System | Windows 10 Pro (32bit) Windows 10 Pro (64bit) Windows 10 Enterprise (32bit) Windows 10 Enterprise (64bit) Windows 10 Education (32bit) Windows 10 Education (64bit) Windows 8.1 Pro Update (32bit) |

| Item | Description |
|---------------------------|--|
| | Windows 8.1 Pro Update (64bit) Windows 8.1 Pro (32bit) Windows 8.1 Pro (64bit) Windows 7 Professional (32bit) [Service Pack 1] Windows 7 Professional (64bit) [Service Pack 1] Windows 7 Enterprise (32bit) [Service Pack 1] Windows 7 Enterprise (64bit) [Service Pack 1] Windows Server 2012 Standard (64bit) Windows Server 2008 R2 Standard (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 R2 Enterprise (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 Standard [Service Pack 1/2] Windows Server 2008 Enterprise [Service Pack 1/2] |
| CPU | Pentium® III 450 MHz or equivalent or higher (1 GHz and above is recommended) |
| Hard disk capacity | 15 MB or more free space |
| Memory capacity | 256 MB or larger (1 GB and above is recommended) |
| Network Card | Yes |
| Display | VGA (640 x 480 pixels) and above (SVGA (800 x 600 pixels) and above is recommended) |

Note: For 64-bit versions, Printer Check software will run on WOW64 (Windows 32-bit on Windows 64-bit) emulation layer subsystem.

Note: Must meet separate requirements for operating system.

Note: You must install all patches provided by Microsoft with the following severity levels.

- Critical
- Important

Operating Environment of Job Log Analyzer

| Item | Description |
|-----------------------------------|--|
| Supported Operating System | Windows 10 Pro (32bit) Windows 10 Pro (64bit) ^{*1} Windows 10 Enterprise (32bit) Windows 10 Enterprise (64bit) ^{*1} Windows 10 Education (32bit) Windows 10 Education (64bit) ^{*1} Windows 8.1 Pro Update (32bit) Windows 8.1 Pro Update (64bit) ^{*1} Windows 8.1 Pro (32bit) Windows 8.1 Pro (64bit) ^{*1} Windows 7 Professional (32bit) [Service Pack 1] Windows 7 Professional (64bit) [Service Pack 1] ^{*1} |

| Item | Description |
|---------------------------|--|
| | Windows 7 Enterprise (32bit) [Service Pack 1] Windows 7 Enterprise (64bit) [Service Pack 1] *1 Windows Server 2016 Standard (64bit) Windows Server 2012 R2 Standard (64bit)*1 Windows Server 2012 Standard (64bit)*1 Windows Server 2008 R2 Standard (64bit) [without a Service Pack, Service Pack 1] *1 Windows Server 2008 R2 Enterprise (64bit) [without a Service Pack, Service Pack 1] *1 Windows Server 2008 Standard (32bit) [Service Pack 2] Windows Server 2008 Enterprise (32bit) [Service Pack 2] |
| CPU | Pentium® III 1GMz or equivalent or higher |
| Hard disk capacity | 4 GB or more free space |
| Memory capacity | 256 MB or larger |
| Display | XGA (1024 x 768 pixels and above) |
| Required hardware | DVD-ROM Drive |
| Required software | Microsoft Excel 2010 (32bit) ^{*2 *3} Microsoft Excel 2013 (32bit) ^{*2 *3} Microsoft Excel 2016 (32bit) ^{*2 *3} |

Note: To custom install Microsoft Excel, Microsoft Visual Basic for Applications must be installed.

- *1: For 64-bit versions, ApeosWare Management Suite 2 software will run on WOW64 (Windows 32-bit on Windows 64-bit) emulation layer subsystem.
- *2: Only in Compatibility Mode.
- *3: Operation is guaranteed for the same language version of Microsoft Excel on each language version of operating system.

Operating Environment of Popup Messenger

| Item | Description |
|-----------------------------------|---|
| Supported Operating System | Windows 10 Pro (32bit) Windows 10 Pro (64bit) Windows 10 Enterprise (32bit) Windows 10 Enterprise (64bit) Windows 10 Education (32bit) Windows 10 Education (64bit) Windows 8.1 Pro Update (32bit) Windows 8.1 Pro Update (64bit) Windows 8.1 Pro (32bit) Windows 8.1 Pro (64bit) Windows 7 Professional (32bit) [Service Pack 1] Windows 7 Professional (64bit) [Service Pack 1] Windows 7 Enterprise (32bit) [Service Pack 1] Windows 7 Enterprise (64bit) [Service Pack 1] Windows Server 2012 R2 Standard (64bit) |

| Item | Description |
|--------------------------|--|
| | Windows Server 2012 Standard (64bit) Windows Server 2008 R2 Standard (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 R2 Enterprise (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 Standard (32bit) [Service Pack 2] Windows Server 2008 Enterprise (32bit) [Service Pack 2] macOS 10.14 Mojave ^{*1} macOS 10.13 High Sierra macOS 10.12 Sierra OS X 10.11 El Capitan OS X 10.10 Yosemite OS X 10.9 Mavericks OS X 10.8 Mountain Lion Mac OS X 10.7 Lion Red Hat® Enterprise Linux® 7 Vine Linux® 6.2 CR Ubuntu® 14.04 LTS CentOS 7.0 |
| Required hardware | Conforms to the operational conditions of the OS |

*1: Popup Messenger version 2.1.2 ex1 or later is required.

Operating Environment of Diagnostics Utility

| Item | Description |
|-----------------------------------|--|
| Supported Operating System | Windows 10 Pro (32bit) Windows 10 Pro (64bit) Windows 10 Education (32bit) Windows 10 Education (64bit) Windows 8.1 Pro Update (32bit) Windows 8.1 Pro Update (64bit) Windows 8.1 Pro (32bit) Windows 8.1 Pro (64bit) Windows 7 Professional (32bit) [Service Pack 1] Windows 7 Professional (64bit) [Service Pack 1] Windows 7 Enterprise (32bit) [Service Pack 1] Windows 7 Enterprise (64bit) [Service Pack 1] Windows Server 2016 Standard (64bit) Windows Server 2016 Datacenter (64bit) Windows Server 2012 R2 Standard (64bit) Windows Server 2012 R2 Datacenter (64bit) Windows Server 2012 Standard (64bit) Windows Server 2008 R2 Standard (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 R2 Enterprise (64bit) [without a Service Pack, Service Pack 1] Windows Server 2008 Standard (32bit) [Service Pack 2] Windows Server 2008 Enterprise (32bit) [Service Pack 2] |

| Item | Description |
|-------------------|---|
| Required hardware | Conforms to the operational conditions of the OS |
| Required software | Microsoft .NET Framework 3.5 [Service Pack 1] Microsoft .NET Framework 3.5.1 |

Document management service available to link with ApeosWare Management Suite 2

| Item | Description |
|-----------------------------|---|
| Document Management Service | <ul style="list-style-type: none"> • Windows Shared Folder (SMB 2.0 or later) • FTP Server • Working Folder *1 *2 • DocuShare 7.0 *3 *4 • DocuShare CPX 7.0 *3 *4 • DocuShare Express 7.0 *3 *4 • DocuShare 6.6.1 Update 2 / Update 3 *3 *5 • DocuShare CPX 6.6.1 Update 2 / Update 3 *3 *5 • DocuShare Express 6.6.1 Update 2 / Update 3 *3 *5 • Microsoft SharePoint Standard 2010 / 2013 *3 • Microsoft SharePoint Enterprise 2010 / 2013 *3 • Salesforce® Sales Cloud (Categories: Merchant / Opportunity / Library / Document) *3 *6 • RightFax 10.6 *3 • Intelledox Infiniti 8.6.2.1 or later *3 • Google Drive™ • OneDrive for Business *3 |

*1: Operations to Public Drawer and Private Drawer are supported. Operations to other drawers are not supported.

*2: Registration and search for Custom Attributes are not supported.

*3: Optional.

*4: DocuShare Options Server Common 7.0.11 must be installed.

*5: DocuShare Options Server Common 6.6.22 must be installed.

*6: WebAPI option will be required according to Sales Cloud edition.