



# SAWS IS Standards

8 November 2019

## **Products & Versions**

### **Server Operating System:**

|                          |               |
|--------------------------|---------------|
| Microsoft Windows Server | 2019 (64 bit) |
| Debian Linux             | v10.x         |

### **Database Environment:**

|       |                           |
|-------|---------------------------|
| DBMS: | Microsoft SQL Server 2012 |
|       | Oracle 19c                |

### **Directory Services**

|       |  |
|-------|--|
| DNS:  | AD Integrated (For Internal DNS)               |
| LDAP: | Microsoft Active Directory Windows Server 2016 |
| ADFS: | 2012 and up compatible                         |

### **Desktop Operating System:**

|                   |    |
|-------------------|----|
| Microsoft Windows | 10 |
|-------------------|----|

### **Desktop Web Browser:**

|                      |    |
|----------------------|----|
| Chrome               |    |
| MS Internet Explorer | 11 |

### **Server Applications & Frameworks:**

|      |        |                 |
|------|--------|-----------------|
| Web: | MS IIS | v10.x or higher |
|------|--------|-----------------|

|              |              |                    |
|--------------|--------------|--------------------|
| Integration: | Web Services | REST / SOAP        |
|              | Batch File   | External SFTP only |

|                |                                   |
|----------------|-----------------------------------|
| Collaboration: | Microsoft SharePoint (Office 365) |
|----------------|-----------------------------------|

|                        |                      |
|------------------------|----------------------|
| Web Portal (In-house): | Java, .Net, C#, HTML |
|------------------------|----------------------|

Miscellaneous Services:

|                       |   |
|-----------------------|---|
| Virtualization:       | VMWare ESX v6.7                           |
| Storage Area Network: | Nimble SSD                                |
| Backup:               | Symantic Net Backup                       |
| Scheduler:            | CA Autosys                                |
| Reporting/Analytics:  | MS SQL / SSRS / Tableau / Crystal Reports |

Security & Access:

|                |   |
|----------------|---|
| Remote Access: | Cisco ASA (Firewall/VPN)                    |
|                | Palo Alto Firewall/VPN                      |
| Antivirus:     | Symantec Endpoint Antivirus/Antimalware v12 |

Systems Monitoring:

|              |              |
|--------------|--------------|
| Infor Apps   | App Dynamics |
| Performance  | Splunk       |
| Network SNMP | SolarWinds   |

Miscellaneous Tools / Applications:

|          |              |
|----------|--------------|
| Q/A Q/C: | HP ALM       |
| IVR      | Cisco / UCCX |

## **Standard Workstation Applications**

| <b><u>Application</u></b>       | <b><u>Version</u></b> |
|---------------------------------|-----------------------|
| Microsoft Office                | Office 365 ProPlus    |
| Internet Explorer (IE)          | 11.0 or higher        |
| Macromedia Flash Player         | 11                    |
| Adobe Acrobat Reader            | 12x                   |
| Java Runtime Environment (JRE)* | 7.x or higher         |
| Microsoft .NET Framework        | 4.X                   |
| Oracle Client                   | 13c                   |
| Symantec Endpoint               | 12.0                  |