



Introduction

This document identifies the current City of Chicago standards for its hardware and software environments, and is intended primarily for City department and vendor use.

These standards do not mean that other software and hardware, which might have been previously listed as standard, may not be used or supported, but the following items should be purchased for any new initiative or growth/replacement needs.

Any proposals for non-standard hardware or software purchases or questions/comments should be forwarded to the Department of Innovation and Technology (DoIT) Enterprise Architecture Board for review, and will need to be approved via the Technology Purchase Review and Approval (TPRA) process.

Standards denoted with an asterisk (*) are currently under review.

Platform Standards

Operating System (O/S)	Hardware Platform
Solaris 10 (Unix)	(Oracle) Sun Microsystems
RedHat Linux Enterprise Server 6.x, 7.x	Dell
RedHat Linux Enterprise Server 7.x (PCI Services)	Dell
VMWare VSphere 6.5U1	Dell
Windows 2012 R2 & 2016 (Standard and Enterprise)	Dell
Windows 7, Windows 10	Dell, Panasonic



Hardware & Software Standards

Enterprise Services

Type	Windows 2008 Server	All other platforms
Database	N/A	Oracle Enterprise 11gR2, 12cR1; Postgres 9.x or 10.x (EnterpriseDB or community)
Print	O/S	n/a
File	O/S	n/a
Email	Exchange 2016 / Office365	n/a

Desktops, Laptops, & Tablets

Type	Model
Standard Users	Dell OptiPlex 5050 SFF, Dell OptiPlex 7450 All-In-One
Mobile User	Latitude 12 Rugged Extreme Latitude 14 Rugged 5414 Latitude 12 2 in 1 with case and Doc Latitude 5480 14" Laptop 6th gen proc
High-End Workstation	Dell Precision T5810
Laptop Accessories	Docking- For the E-5470 units, Dell Business Dock - WD15 with 130W Adapter
Monitor	Dell 23 Monitor – P2317H



Hardware & Software Standards

Printing and Scanning

The Department of Fleet and Facility Management (2FM) oversees print services for the City of Chicago. Per policy, all departments are to use the multi-function devices supported through 2FM's current contract with Canon.

Mobile

Type	Operating System (O/S)	Products - Uses
City-issued Smartphone	Android, iOS	Android – Samsung Galaxy S7 (or above) iOS – iPhone 7 (or above)
City-issued Feature Phone	AOSP	Kyocera DuraXV
Foreign Mobile Device	Minimum Acceptable Release - Android 7 or iOS 11	Connect to City's Enterprise Email via ActiveSync

Utilities by Server Platform

Operating System (O/S)	Hardware Platform	Back-up	Scheduling	DB Back-up	SFTP	Virus Protection	Application Monitoring	Hardware Monitoring	File System Mgmt
Solaris 10 (Unix)	Sun Microsystems	Commvault Simpana 11.x	O/S	Commvault Simpana 11.x	WS_ FTP	n/a	Hyperic	Sun RSM, Big Brother	Veritas Volume Mgr
RedHat Linux Enterprise Server 6.x, 7.x	Dell	Commvault Simpana 11.x	O/S	Commvault Simpana 11.x	WS_ FTP	McAfee	Hyperic	Big Brother	Bundled with O/S
Windows 2012 R2 & 2016	Dell	Commvault Simpana 11.x	O/S	Commvault Simpana 11.x	WS_ FTP	McAfee	Hyperic	Dell: Open Manage	Bundled with O/S



Hardware & Software Standards

Enterprise Management Software

Function	City Standard
Internet/Web Browser	MS Internet Explorer 11, Firefox, Chrome
Remote Email/Handheld Integration	Office365
Content Filtering	Smart Filter DA
Anti-spam	Office365/FireEye ETP
Email Archiving	Office365
Desktop Management	Microsoft SCCM
Security/Single Sign-On	Microsoft Active Directory
Encryption (full disk and mobile media)	McAfee End Point Encryption & Bit Locker
Intrusion Detection and Prevention	ISS, McAfee, Palo Alto
File Integrity Monitoring	Solidcore
Vulnerability Scanning	McAfee
Help Desk System	ServiceNow

Enterprise Applications

Function	City Standard
Financial Management	Oracle e-Business Suite
Human Resource Management	Oracle e-Business Suite
Grants Management	Oracle e-Business Suite
Learning Management	Net Dimensions Talent Suite 11.2
Work Order Management	Salesforce, Motorola CSR (deprecating)
Inspections & Permitting	Infor Hansen 7, Hansen 8, Motorola (deprecating)
Business Licensing	IRIS (custom)
Ad hoc Reporting	SAP Business Objects
Imaging – Document Storage	FileNet P8 5.1 (Content Manager) SharePoint Online
Imaging – Workflow	FileNet P8 3.5 (Business Process Manager) SharePoint Online



Software Development & GIS

Tool/Function	City Standard
Programming Language	JEE Java (JSP, EJB, JMS, etc.)
Operating System	Red Hat Enterprise Linux (see Platforms for current versions)
Web Server	Apache 2.x
Application Server	Red Hat JBOSS EAP 6.x and 7.x Oracle WebLogic Server 12.x
Geospatial Information Systems	Esri ArcGIS Server 10.x
Java Source Code Reviews	Synopsis Static Analysis Tool (formerly Coverity Quality Advisor)
Automated Testing	Neotys NeoLoad, Junit, Jmeter
Source Code Version Control	GitLab, CVS (deprecating)
Continuous Integration	Cruise Control 2.x travis-ci.org / travis-ci.com (Linux, Ubuntu) appveyor.com (Windows)
Web Content Management	Adobe Experience Manager



Hardware & Software Standards

Data Science

Tool/Function	City Standard
Extract, Transform, Load	Kettle 4.x
Database Management System (Relational)	Oracle Enterprise 11g, 12c Postgres 9.x or 10.x (EnterpriseDB or community)
Database Management System (NoSQL)	MongoDB 3.x
Application Development	Oracle APEX 5.x
Integrated Development Environment (IDE)	TOAD Oracle SQL Developer RStudio
Language	Javascript (including NPM, JQuery) R 3.x Python 2.x or 3.x ANSI SQL Java

Project Management & Collaboration

Tool/Function	City Standard
Project Management, Collaboration, & Reporting	MS Project Online, GitHub.com, GitLab, Service Now
Project Document Management & Archiving	SharePoint Online
Web and Teleconferencing	FreeConferenceCall.com
Surveys	SurveyMonkey, SharePoint Online