

Title	Information Technology Commodities	
Type	Standard	
Related Policy	Information Technology Commodity Procurement Policy	
Category	Hardware/Software	
Status	Approved	
Approved	04/04/2013	
Revised	11/20/2014	
To Be Reviewed	11/20/2016	
Scope	Applies to all City information technology purchases.	
Standard	Commodity:	
	Desktop/Laptop computers	<p>Minimum Configurations for: New Desktop PCs Computers</p> <p>Recommended Brands:</p> <ul style="list-style-type: none"> • Hewlett Packard • Panasonic (ruggedized models) <p>Tablets: All tablets will be supported by the Designated Vendor.</p>
	Mobile Telecommunication Devices	<p>Supplier:</p> <ul style="list-style-type: none"> • Verizon <p>Note: Blackberry devices are not supported.</p>
	Network multi-function devices (e.g., printers, scanners, copiers)	<p>Maintenance and Support Requirements:</p> <ul style="list-style-type: none"> • Must include device configuration with to be paid by requesting Department • Three-years minimum preferable five-year maintenance and support from the supplier <p>Approved Manufacturers:</p>

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- Hewlett-Packard
- Xerox

Servers and Storage

All server configurations will need an ITSD review before proceeding to TRC. ITSD will review these items and how it fits into the current infrastructure.

Component Minimum Standards:

- Memory:
- Cache:
- Disk Configuration/Fault Tolerance: SCSI, FibreChannel, ATA/IDE (conditional), iSCSI.
- Operating System: local, hardware RAID (level may vary by platform).
- Data: local, hardware RAID (1, 1E, 5, 5E, 1+0) Hot-swappable with on-board spare as necessary.

Storage platforms:

- IBM System Storage
- HP Storage

Network Attached Storage (NAS) platforms

- IBM System Storage: NetApp

Tape Backup/Library:

- Quantum Tape Library

Power:

- Redundant, UPS required if not ITSD resident
- Network Interface Card(s)

Monitor:

- Required if not ISD resident, or KVM present, 15" minimum

Operating System:

- Microsoft Windows Server 2008 and 2012
- Red Hat Enterprise Linux (RHEL)
- Oracle Enterprise Linux (OEL)

Backup:

- Symantec Backup Exec

Virus Protection:

- Trend Micro

System Management:

- IBM (Tivoli) Director
- HP iLO

Maintenance:

- 3 year minimum warranty 5 year preferred
- 24 hour x 7 day support
- 4 hour on-site response
- parts and labor included

Preferred Platforms:

- IBM
- Dell
- HP

Enterprise system software

Component Standards

E-mail:

- Server - Microsoft Exchange
- Client - Microsoft Outlook 2010 or lower
- Client (web) - Microsoft Outlook Web Access (OWA)

E-mail Antivirus:

- Trend Micro

E-mail Antispam:

- Microsoft

Instant Messaging:

- Microsoft

Team Collaboration:

- Microsoft

Web Application Server (Internal Development):

- Apache Jakarta/Tomcat
- Microsoft IIS

Web Application Server (COTS):

- BEA Weblogic/Tuxedo (PeopleSoft)
- Apache Jakarta/Tomcat, Geronimo
- Microsoft IIS
- Oracle Forms Server

Web Server:

- Apache HTTPd

- Microsoft IIS

Web Filtering:

- IronPort Web Security Appliance

Web Editing Tool:

- Contribute

Web Content Management:

- Plone

Database Management Systems:

- Oracle
- Microsoft SQL Server 2008, 2012, 2014

DBMS Administration Tools:

- Embarcadero Technologies DBArtisan
- Quest TOAD

Oracle Enterprise Manager:

- Oracle SQL Developer
- Microsoft SQL Server Management Studio

Directory:

- Microsoft Active Directory (COA Domain only)

Identity Management:

- Microsoft

Application Centralization:

- Citrix MetaFrame
- VMWare
- Microsoft

Production Scheduling:

- Appworx

Centralized Desktop Management:

- Microsoft Active Directory
- AdminStudio Professional

Centralized Desktop Antivirus:

- Trend Micro

Geographic Information Systems (GIS)

- Environmental Systems Research Institute (ESRI) Components

Operating System Virtualization/Hypervisor:

- VMWare
- Microsoft

System Monitoring:

- Oracle Enterprise Manager (OEM)
- Whats Up Gold (WUG)

Network Monitoring

- Cisco

	<ul style="list-style-type: none"> • Cacti • Solar <p>Network VPN</p> <ul style="list-style-type: none"> • Cisco • Netmotion <p>Intrusion Protection</p> <ul style="list-style-type: none"> • Cisco <p>Service Desk (Ticketing System)</p> <ul style="list-style-type: none"> • ServiceNow (ITIL)
Desktop software	<p>Supported Software: (includes installation and limited how-to and problem-solving. No instructional courses are offered.)</p> <ul style="list-style-type: none"> • Microsoft Office 2010 Professional • Microsoft Office 2003 Standard and Professional • Microsoft Outlook 2003 • Microsoft Project 2003 Standard and Professional • Microsoft Visio 2003 Standard and Professional (organization charts) • Mocha TN3270 • Adobe Acrobat (current versions) • activePDF, PrimoPDF, PDF Writer • Microsoft Internet Explorer 6.0 • FileNet client • Macromedia Contribute <p>Unsupported Software: (no installation, instructional, how-to or problem-solving support. If installation is required to perform specific job duties, it must be provided by Department staff or through vendor support.)</p> <ul style="list-style-type: none"> • Adobe PageMaker • Macromedia Dreamweaver • Mozilla Firefox

	<ul style="list-style-type: none"> • Adobe Photo Shop • File Maker Pro • WordPerfect • Microsoft FrontPage • Centurion DriveShield (for public-access machines only) • Microsoft Sharepoint Designer 2007 • Eclipse Integrated Development Environment <p>Supported Operating Systems:</p> <ul style="list-style-type: none"> • Windows 7 • Windows XP Professional (end of support by Microsoft April 8, 2014) <p>Unsupported Operating Systems: (no installation, instructional, how-to or problem-solving support. If installation is required to perform specific job duties, it must be provided by Department staff or through vendor support.)</p> <ul style="list-style-type: none"> • Windows Vista Enterprise (purchase license, but run Windows XP Professional until Vista-compatible City standard security software is available) • Red Hat Enterprise Linux WS or Red Hat Desktop (version 4 or higher) • SuSE Linux Enterprise Desktop (version 10 or higher) • MacOS (Version X or higher) • Microsoft Office 2013 (is not compatible with the current Exchange Environment) <p>Legacy Operating Systems: (limited support available for existing installations; no new installations permitted)</p> <ul style="list-style-type: none"> • Windows 2000 • Lotus Notes
Digital cameras and projectors	<ul style="list-style-type: none"> • Need to support XVGA
Global Positioning System ("GPS") devices	<ul style="list-style-type: none"> • GPS devices should be compatible with ESRI data formats, such as a shapefile. • At a minimum, the GPS device should be able to

	<p>export an ASCII text file or other tabular format of the coordinates collected.</p> <ul style="list-style-type: none"> Information collected on the GPS unit should be downloadable to a PC via USB or other connection. GIS Sharepoint site: http://sharepoint.cabq.gov/gis/GPS/Forms/AllItems.aspx
Parking Stations	<ul style="list-style-type: none"> Parkeon (electronic mid-block parking station) Duncan (electronic single head credit card capable) IPS (electronic single head credit card capable)
Physical security equipment and software	<p>Video surveillance system</p> <ul style="list-style-type: none"> System must be DVTel or DVTel Compatible. Alarm Detection System (such as intrusion and process monitoring, but not fire). Equipment must have an output associated to each alarm condition to interface to a Software House system by means of a Software House control panel. <p>OR</p> <p>The system must be OpenEye RADIUS.</p>
Non-Public Safety Audio Logging Recorders	<ul style="list-style-type: none"> The following equipment is the City standard for digital audio logging recorders: Verint
Public Safety Digital Logging recorders	<ul style="list-style-type: none"> The following equipment is the City standard for public safety digital logging recorders: <ul style="list-style-type: none"> o Mercom Audiolog
Public Safety Dispatch Consoles	<p>Minimum standard requirements for a public safety dispatch PC console setup:</p> <ul style="list-style-type: none"> 3 GHz Processor 2 GB Memory 160 GB Hard Drive 3 1/2 Floppy Disk Drive DVD +/- RW Disk Drive DB9 Male RS 232 Serial Port assigned to COM 1 DB9 Male RS 232 Serial Port assigned to COM 2 DB25 Male RS 422 Serial Port assigned to COM 3 (PartSeaLevel 7108)

	<ul style="list-style-type: none"> • PS2 Port (Quantity 2) • VGA Video Port • USB 2.0 (Quantity 4) • Windows XP operating system • Keyboard or Mouse/Footswitch control • Desktop Microphone • Dispatch Headset • Select and Unselect Speakers
General Services Radio System	<p>Minimum Standard Requirements: Harris Communications™ mobile (vehicle) and portable (handheld) radios.</p> <ul style="list-style-type: none"> • 806-870 MHz Enhanced Digital Access System (EDACS) compatible • 30 Watt RF output power mobile • 3 Watt RF output power portable • 128 Channel minimum • 800 MHz antenna • FCC type-accepted
VHF/UHF Isolated Repeater Radio System	<p>Minimum Standard Requirements:</p> <ul style="list-style-type: none"> • Harris Communications™ mobile (vehicle) and portable (handheld) radios
Imaging system document scanning devices	<ul style="list-style-type: none"> • Must be on the Pixel Translation supported scanner manufacturer list available at the following
Public/Education/Government Access (PEG) Digital Video Broadcast Servers	<ul style="list-style-type: none"> • Need recommended brands
Library Automation Hardware and Software	<p>Vendor: Innovative Interfaces, Inc.</p> <ul style="list-style-type: none"> • Sierra integrated library platform. The Sierra system includes vendor-supplied configured servers and software that consists of the following modules: <ul style="list-style-type: none"> Acquisitions, Cataloging, Serials, Circulation Patron database management, Program Event Registration. • WebPacPro

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<ul style="list-style-type: none">• Encore <p>Vendor: 3M Library Systems:</p> <ul style="list-style-type: none">• 3M SelfCheck• 3M Detection Systems: 3M Tattle Tape security strips, 3M Detection Gates, Sensitize/Desensitize devices.• 3M Automated Materials Handling and Detection <p>Systems.</p> <ul style="list-style-type: none">• Public Access Management System (PAMS): 3M/Comprise Technologies Smart Access Management system.• Point of Sale: 3M/Comprise Technologies Smart Money Manager: part of the SAM system and is compatible with Innovative Interfaces, Inc. Sierra library automation platform.

Siriusware Salesware Kiosk Hardware

<p>Radiant 601 Kiosk -</p> <ul style="list-style-type: none">• Celeron M 1.3 GHz processor• 3.5" hard drive 160Gb• 1Gb RAM• Windows XP• Quad-bulb, Active Matrix 17" SXGA LCD primary display; sunlight readable• 2-track dual head magnetics stripe reader• Barcode scanner• Powered serial ports (RJ12)• 4 USB 2.0 ports• 1 DVI port• 1 mini PCI• Sub ATM Ticket Printer (Fan Fold only)• Wall/Floor mount• HVAC <p>Winstanley 25900 ATM Style Kiosk</p> <ul style="list-style-type: none">• 15" LCD touchscreen monitor• BOCA SubATM 46 Printer with input ticket hopper

	<p>and output ticket hopper</p> <ul style="list-style-type: none"> • Dell small form factor Computer • Windows XP • 512 Mb RAM • Symbol bar code reader • Credit Card Reader, conformal coated circuit board • Power strip surge suppression
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Emergency Management Software	Vendor: EMSystems (Emergency Medical Software Services)
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Transit Automation Hardware and Software	<p>Vendor: Trapeze Software Group</p> <p>Paratransit service: trip booking, automated vehicle routing, onboard mobile data computers and computer aided dispatch modules and automated reminder calls.</p> <p>Trapeze: online driver’s schedule information, online Paratransit trip booking, online trip planning tool, scheduled and real-time next bus information via text messages, interactive voice response or e-mail notification.</p> <ul style="list-style-type: none"> • AVL: GPS based automated vehicle location system and schedule adherence. • BB: Fixed route automated blocking module. • BSM: Software to track amenities, repairs and maintenance schedules for bus stops. • FX-Info-MON: Estimated time of arrival at bus stops based on AVL data. Enhances FX-Info-IVR and FX-Info-SMS below with real-time information. • FX-Info-email: Automated e-mail notification of next bus information. • FX-Info-IVR: Automated interactive voice response module providing next bus information. • FX-Info-SMS: Automated text message response module providing next bus information. • FX: Scheduling module for the fixed route service. • Info-Agent: Trip planning software for call centers. • Info-Publish: Fixed route schedule publication module. • Info-Web: Web based trip planning module. • MapMaker: Import and conversion tool to utilize existing GIS maps. • OBS hardware: Onboard mobile data computers for driver communication, on-time performance information, dynamic Paratransit manifest and fixed
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route directions.

- **Ops:** Software module to track drivers' schedules, bid assignments vs. actual work, union rules and absences.
- **Ops-Web:** Web based communication tool for drivers.
- **PASS:** Automated routing, trip booking, and computer aided dispatch system for the Paratransit service.
- **PASS-IVR:** Automated telephone based scheduling system for the Paratransit service and reminder calls the day prior to customer's travels. Also provides reminder calls on the day of travel 10 minutes prior to vehicle's arrival.
- **Plan:** Fixed route analysis, planning and budgeting module.

Vendor: Digital Recorders, Inc.: DRI provides the Predictive Arrival System, LED signs and the automated announcement system.

- **PAS:** Predictive Arrival System calculates the estimated time of arrival based on current vehicle position and historical data.
- **Onboard Announcements System:** Announce the current location of the vehicle by using GPS coordinates including bus yard wireless updates and central recording software (CRS).

Vendor: TwinVision, Inc.

- **Destination Sign:** Vehicle's high-intensity LED signs. Integrates to the Digital Recorders onboard announcement system to reduce the number of logon devices for the driver.

Vendor: GE Security

- **Mobile View:** Ruggedized onboard surveillance system with audio recordings, wireless download of data at bus yards, centralized management software, open architecture for interfaces to GPS receivers and

other onboard devices.

Vendor: Infodev

- Infordev provides automated passenger counters, including directional sensors, onboard data storage, infrared and radio frequency links, integration services on onboard network.

Vendor: GFI Genfare

- **Odyssey:** Onboard fare boxes for collecting revenue, recording use of passes and issuance of passes.
- **TVM:** Outdoor rated Ticket Vending Machines compatible with fare boxes.
- **PEM:** Printer Encoder Machine compatible with fare boxes.
- **DS:** Data System, automated data collection, reporting, backup, and archive components.

Vendor: Security Control Integration (SCI, Inc)

- **C-Cure:** Access control and logging of employee's entries. Create and issue photo badges.
- **DVTel:** Video surveillance system for facilities.

Vendor: AssetWorks Inc.

- **FleetFocus:** Fleet management, inventory, bar coding, work orders, labor and repair tracking.
- **FuelFocus:** Fuel management, inventory and control module.

Vendor: Cummins Rocky Mountain

- **Insite:** Engine diagnostic and repair software

Vendor: Stuart & Stevenson LLC

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<ul style="list-style-type: none">• ATDT: Transmission diagnostic and repair software <p>Vendor: Advanced Presentation Systems</p> <ul style="list-style-type: none">• Industrial Displays : Industrial large format displays intended for continuous operation in a production environment.

Municipal Development Automation Software

<ul style="list-style-type: none">• VueWorks• EdgeSoft

Police Automation Hardware and Software

<p>Vendor: Tiburon, Inc.</p> <ul style="list-style-type: none">• CommandCAD• MobileCOM• LawRECORDS• TiburonCONNECT <p>Vendor: The Omega Group</p> <ul style="list-style-type: none">• CrimeView• CrimeView Server• CrimeView Community <p>Vendor: Xanalys Limited</p> <ul style="list-style-type: none">• PowerCase• Link• Indexer <p>Vendor: TASER</p> <ul style="list-style-type: none">• Axon Flex Camera• Evidense.com <p>Vendor: Landesk</p> <ul style="list-style-type: none">• IT Service Management

Vendor: Public Safety Corporation

- CryWolf

Vendor: Innovative Data Solutions

- PowerDMS Policy Manual Software

Vendor: QueTel Corporation

- Evidence TraQ.
- Bar Code Scanners and Data Collection Terminals -
- Bar Code Printers and Labels

Vendor: MorphoTrak

- Printrak Biometrics Identification Solution (BIS)
- LiveScan

Vendor: CAD Zone, Inc.

- CrimeZone

Vendor: PIPS Technology

- Automatic License Plate Recognition System

Vendor: Stratus Technologies

- ftServer - Fault tolerant, high availability servers.

Vendor: LEFTA Systems

- LEFTA (Law Enforcement Field Training Application)

	<p>Vendor: CI Technologies</p> <ul style="list-style-type: none"> • IPro
Configurations for Siriusware Handheld Scan Access Hardware	<p>Required:</p> <ul style="list-style-type: none"> • Symbol PPT8846 Wireless Scanner w/Pocket PC 2003 • Single slot communications & charge cradle • Spare 1700 mAh battery • Protective screen cover for PPT8846 • Symbol 3-year Service Center Bronze Service PPT8846 • Siriusware Salesware Handheld License must exist for each device or be purchased at time of equipment purchase.
Solid Waste Department	<p>Software</p> <ul style="list-style-type: none"> • ArcServer Backup

Data Communications/Network Equipment/Telecommunications Standards:

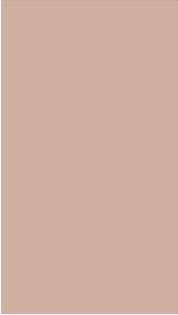
Network Cabling	<ul style="list-style-type: none"> • Local Area Network (LAN) copper cabling comply with ANSI/TIA/EIA-568-B.1 2001 ("T568B") Category 5e or better standards must provide a 25-year application assurance and extended warranty. • Cabling in new facilities must utilize Category 5e cabling. • Fiber-optic cabling shall be Optical Cable Corporation manufactured tight buffered fiber installed by a OCC certified installer, and must provide a minimum 10-year warranty. • All patch panels and wall plates shall utilize 110-block type insulation-displacement connections. • Switch interfaces shall utilize IEC 60603-8 ("RJ-45") connections for copper and IEC 61754-20 ("LC") or IEC 61754-4 ("SC") connections for fiber. • All cabling must be installed by a City of Albuquerque-approved network contractor.
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	<ul style="list-style-type: none"> • ISD Network Group is responsible for the coordination of all network installations in City owned and leased facilities.
Telecommunications Equipment	<p>Minimum Standards:</p> <ul style="list-style-type: none"> • Siemens Hicom 300 • HiPath 4000 • Hicom 150 • Optipoint 500 Telecommunications switch • Software release must be either at a 6.4 or 6.6 revision level. • Cisco • Palo Alto • Exault • Netformix
Telecommunications Small/Remote Site Network and Equipment	<p>Minimum Standards:</p> <ul style="list-style-type: none"> • Siemens HiCom 300 Mod 80EX or Mod 30EX Release 6.4 to 6.6, • Siemens Hicom 150E, • Siemens HiPath 4000 • Siemens Optipoint 500. • Cisco

Rationale These standards are intended to satisfy the requirements of conducting daily business in an efficient manner. Departments must recognize, specify, and justify the need for purchasing new platforms. Recycle standards change as new operating systems and application software require more processing power and/or hardware changes.

These standards provide the following benefits:

- Facilitate the exchange and sharing of data electronically, by using the same programs (with related file formats) and platforms across City Government.
- Achieve substantial savings in person-time support costs, over a period of time, by reducing the number of products that are supported.
- Reduce training costs and facilitate staff transfers, by having the same software in use throughout City Government.
- Enable City Government to avail of volume purchase discounts from major hardware and software vendors.



NOTES:

- Update in 2 years.
- All commodities standards should be rolled into one. There should be one for all ITSD, to include all Departments APD, Library, Solid Waste, Etc...