

Technical Standards

This form identifies technical standards for components in the City's Information Services architecture. The description of standards will, when taken as a whole provide a reasonably complete description of that architecture as it currently exists. It will also identify each component standards as sunset (legacy), mainstream, or emerging. Some component standards may reference a standard set by an external body, or may refer to a manufacturer's specific product line or model. Others may contains sufficient descriptive text to identify and establish a standard for the component in question.

PERSONAL TOOLS		Personal Tools						
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
Desktop Computer	Enterprise	Dell OptiPlex 745		Unknown			Successor	Standard Desktop
Desktop/Laptop Computer O/S	Enterprise	MicroSoft XP		Microsoft Vista		7	Windows	Desktop/Laptop O/S
Laptop Computer 14.1"	Enterprise	Dell Latitude D630		Unknown			Successor	Standard Laptop
Laptop Computer 15.4"	Enterprise	Dell Latitude D830		Unknown			Successor	Standard Laptop
Novell Client 6.91	Enterprise				MS Windows			Network Access
PERSONAL TOOLS		IP Phone						
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
2 Line		C7940	Cisco	C7941G	Cisco	N/A	Cisco	7941G series IP phones
4 Line		C7940G	Cisco	C7941G	Cisco	N/A	Cisco	7941G series IP phones are the standard for all IP Phone acquisitions in this category. Used primarily for single user setup where minimal extensions or features are required.
6 line		C7960G	Cisco	C7961G	Cisco	N/A	Cisco	7961G series IP phones are the standard for all IP Phone acquisitions in this category. Used primarily for single user setup where maximum extensions or features are required.
6 line Color		C7970	Cisco	7971G	Cisco	N/A	Cisco	7971G series IP phones are the standard for all IP Phone acquisitions in this category. Used primarily for single user setup where maximum extensions or features (AND) color screens are required.
Conference		CP7936	Cisco	CP7936G	Cisco	N/A	Cisco	7936G series IP phones are the standard for all IP Phone acquisitions in this category. Used primarily for conference phone setups or where conference features with Call Manager support is required.

Video		N/A	Cisco	N/A	Cisco	C7985G	Cisco	7985G series IP phones are the standard for all IP Phone acquisitions in this category. Used primarily for presence and tele-conference phone setups where video features with Call Manager support is required.
Enterprise Software		Middleware						
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
BEA Tuxedo				9.1				
BEA Weblogic				9.2				
Blackberry Exchange Services	Help Desk							Blackberry Communications
Cisco dial-out	Network							
CiscoWorks	Network	LMS 2.5		LMS 3.1				Network Management
Dell Remote Access Controller								Server Management
E-Trust	PS						Kaspersky	Anti-virus
J2SE		N/A		v1.4			v5.0	
STAR	Meters	6.03		7.03				Automated Meter Reading
Tivoli	MIS			EMC Networker			Successor	Enterprise backup/restore
VMware ESX Server	MIS						Successor	
Weblogic App Server	MIS			8.1.4			IBM WebSphere 6.x	
What's up Gold	MIS			12			12	Server Monitoring
ZenWorks	MIS	7 sp1 sr 4					Landesk	Remote Management/Installation
Enterprise Software		Shared Applications						
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
ArcGIS: ArcSDE 9.1, ArcIMS, ArcInfo, ArcMAP 9.2, ArcView	Enterprise	9.1		9.2		9.3		GIS
Daptiv	MIS							Hosted Project Tracking
Dialogic Communicator	PS			4				Reverse - 911
GroupWise	Enterprise			6.5		7		email/calendar
Sunguard	Utilities	5.0.10		6		SaaS		Utility Billing; Permitting
Intergraph I/CAD	PS			8.0.1		8.1.3		Computer-aided Dispatch
Intergraph I/LEADS	PS							Police Records Management
JMS	MC			8.0.2		8.2.0		Jail Management
KRONOS Workforce Timekeeper	Enterprise	v5.0						Time entry and tracking
LaserFiche v7.2.1	City Sec	7		7.2.1				Document Storage
MaxGIS	Enterprise							Maps/Maximo
Maximo 6.2 Enterprise	Enterprise			Maximo				Work Management
Municode/Folio	Enterprise							Code of Ordinances
NaviLine	Utilities			5.0.10.0		6.0.3.0		
PS Budget	Enterprise			9				Budgeting
PS Financials	Enterprise	8.8		9		9		Financial System
PS HR	Enterprise	8.8		9		9		HR System

StatusView								In/Out Status
Touchpaper	Enterprise					LanDesk		MIS Service Desk
VisiFLOW		5.4.11		5.4.12				Imaging/Workflow
WebEOC	EOC			7.0.3				Emergency Management
Net Motion	PS				7	8		Mobile VPN Client
Netware	Enterprise	5.1				2008	Windows Server	File/Print Services
Groupwise	MIS	7						E-mail, Calendaring
Alfresco	MIS	Share					Successor	Document Mgmt/Collaboration
CMS	MIS						Replace	Content Management
NETWORK SERVICES		DATA CENTER						
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
Servers (Virtual)	MIS			Dell R805		R905		
DMX 800 (PD)	Enterprise	v6.0-653-3.0	Solution Ena	microcode v 5670.99	Emprise	Xiotech		SAN
EMC 8530	MIS	Unknown due to direct connect to AS400					Remove	
EMC 8830	MIS	v6.0-653-3.0	Solution Ena	microcode v 5568.68	Emprise	Xiotech		SAN
Oracle 10.2.0.3	Enterprise			10.2.0.3.0 RAC			Oracle 10g/11	Oracle Database
OS Windows 2003 Server	Enterprise	Windows 2000		Windows 2003 Server				Windows 2008 Server
RedHat Linux	Enterprise	RH3,RH4		RH5			Linux 64bit	
Service Oriented Architecture Suite - BPEL process manager	MIS			10.1.3				Oracle Interfaces
Sprint Connection Manger	MIS			20071119181650				EVDO manager
MS SQL Server DB	Enterprise	MS SQL Server 2000	SP4	MS SQL Server 2005	SP2		MS SQL Serv	Microsoft Database
PresenTense Time Server	Enterprise							Time Synchronization
HP UX	MC - CSI	B.11.11					Redhat Linux	
informix	MC - CSI			7.31.UD7			Redhat Linux	
Networker								Backup/Restore
NETWORK INFRASTRUCTURE		Switching						
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
Wireless		N/A		12.1(22)EA4a or better	Cisco	N/A	Cisco	Currently using C2955-I6Q4L2-M series. Cisco 2955S or 2955T model series are standard.
Distribution (24)		Varies	C3524XL	12.2(25)SEE2 or better	Cisco	Varies	C3750G	Phasing out C3500 and C3500XL series. Using C3560-IPBASE-M series (Standard Image) as current network standard. This standard is for a 24 port density switch.
Distribution (48)		Varies	C3550/48	12.2(35)SE5 or better	Cisco	Varies	C3750G	Phasing out C3500 and C3500XL series. Using C3560G-48PS-IPBASE-M series (Standard Image) as current network standard. This standard is for a 48 port density switch.

Layer 3		Varies	C3500	12.2(25)SEE2 or better	Cisco	Varies	C3750G	Phasing out C3500 and C3500XL series. Using C3560-EIBASE-M series (Enhanced Image) as current network standard. May use the standard listed for Distribution (48) (Enhanced Image only) when applicable.
Core (6500)		Varies	C6509	12.2(17r)S2 or better	Cisco	Varies	Cisco	Core may be 6500 or 3750 series depending on port density and configuration requirements. Core switches are: CH- 6513, MC-6509, Water-6509, Fleet-3750, PD-3750, EOC-6509, ABC-6513. Current preferred series is the cisco WS-C6513.
Core (3750)		N/A	City	12.2(17r)S2 or better	Cisco	Varies	Cisco	Core may be 6500 or 3750 series depending on port density and configuration requirements. Core switches are: CH- 6513, MC-6509, Water-6509, Fleet-3750, PD-3750, EOC-6509, ABC-6513. Current preferred series is the cisco WS-C3750G Enhanced Image.
Distribution (Non-POE)		Varies	C3524XL	Varies	C2960	Varies	C3750G	Phasing out C3500 and C3500XL series. Moving to C2960-IPBASE-M series (Standard Image) as current network standard. This standard is for a 24 port density switch.
NETWORK INFRASTRUCTURE	Routing							
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
Core Router		Varies	3700 series	Varies	3800 series or 6500 series	Varies	Unk.	Phasing out 3700 series routers and moving to the 3800 series. The 6500 series will be utilized in the event of consolidation of routers.
Stub Router (Small Branch)		Varies	1700 series	Varies	1800 series	Varies	Unk.	Phasing out 1700 series routers and moving to the 1800 series.
Stub Router (Medium Branch)		Varies	3200 series	Varies	2800 series	Varies	Unk.	Phasing out 3200 series routers and moving to the 2800 series. May be moved to a 3800 series if additional features are required as specified by Project or with Director's approval.
SRST		Varies	All series	Varies	All series	Varies	Unk.	All routers shall be installed with SRST options unless specifically designated to be without survivability and with Director's approval.
NETWORK INFRASTRUCTURE	Gateway							
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	

ATA (dual analog device)		Varies	ATA186	V3.0 or above	ATA188	N/A	Unk.	Cisco ATA analog telephone adaptors are handset-to-Ethernet adaptors that allow regular analog telephones to operate on IP-based telephony networks. Cisco ATAs support two voice ports, each with an independent telephone number. The Cisco ATA 188 has an RJ-45 10/100BASE-T data port.
VG (multiple analog device)		Varies	VG248	Varies	VG248	N/A	Unk.	Cisco VG248 Analog Phone Gateway is a mixed-environment solution, which allows support for legacy analog devices over IP. The VG248 is a high-density gateway for using analog phones, fax machines, modems, voice mail systems, and speakerphones within an enterprise voice system based on Cisco CallManager
Module		Varies	FXS/FXO	Varies	FXS/FXO	N/A	Unk.	Stub, SRST, and edge routers shall have at minimum, a 2 port FXS and 2 port FXO Cisco Module installed. Core routers, if required, shall incorporate a full 48 port FXS blade with the appropriate FXO density module installed.
NETWORK INFRASTRUCTURE	Security							
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
Core Access		Varies	525PIX	Varies	ASA5520 or above	N/A	Unk.	Core access standard shall be the Cisco ASA 5520 series (or above depending on additional features required) with IPS/IDS and VPN licensing. All firewalls shall have the Strong Encryption License (3DES/AES) and the ASA AIP Security Services Module installed.
Link Access		Varies	506 or 515PIX series	Varies	ASA5510 or above	N/A	Unk.	Link access standard shall be the Cisco ASA 5510 series (or above depending on additional features required). All firewalls shall have the Strong Encryption License (3DES/AES) and the ASA AIP Security Services Module installed.
VPN		Varies	VPN3030	Varies	ASA5510 or ASA5520	N/A	Unk.	VPN Cisco standard is the ASA series firewall. All firewalls shall have the Strong Encryption License (3DES/AES) and the ASA AIP Security Services Module installed.
NETWORK SERVICES	UPS							
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	

Data Center UPS		N/A	N/A	Varies	APC	N/A	Unk.	Data Center APC UPS shall be cabinet based with bypass and web login features installed.
Closet UPS		N/A	N/A	Varies	APC	N/A	Unk.	All closet APC UPS shall be rack mounted units with 120V power unless specifically customized per project or output requirements. Estimated Runtimes associated with each model are based on a power draw of 200W utilizing 120V Output / 120V Input. Adjustments may be still be required due to expansion or readjusting power draws.
UPS Network Interface		N/A	N/A	Varies	APC	N/A	Unk.	All UPS NICs shall have web based reporting and interface. All UPS devices installed shall have a NIC installed into them.
UPS Environment Sensor		N/A	N/A	Varies	APC	N/A	Unk.	UPS devices within confined spaces and/or in critical areas shall have an environment sensor. Confined spaces are defined as any closet with limited cooling or environmental control, closets with unsecured access, and closets that are smaller than 9'x7'. Critical areas are defined as core closets, data centers, and director approved closets.
NETWORK INFRASTRUCTURE	Wireless							
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
Wimax (WiFi Link for Site)		N/A	N/A	Varies	Alvarion BU/RB, Proxim Tsunami, or Dragon Wave	N/A	Unk.	Approved and proven technologies include Alvarion, Tsunami, and Dragon Wave.
Wimax (WiFi Link for Radio)		N/A	N/A	Varies	Alvarion SU	N/A	Unk.	Approved and proven technologies include Alvarion. Must use a AU for connectivity.
Access Point (Outside)		N/A	N/A	Varies	Tropos 5210	N/A	Unk.	TBD
Access Point (Inside)		N/A	N/A	Varies	Tropos 3210	N/A	Unk.	TBD
Access Point (Roaming)		N/A	N/A	Varies	Tropos 4210	N/A	Unk.	TBD
Meter Transmission Unit		N/A	N/A	Varies	Hexagram	N/A	Unk.	TBD
Data Collection Unit		N/A	N/A	Varies	Hexagram	N/A	Unk.	TBD

NETWORK INFRASTRUCTURE		Leased Lines / Internet						
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
T1		N/A	AT&T	N/A	AT&T	N/A	Unk.	T1 leased line shall be used for Point to Point site connectivity, segregated Video, segregated Data, and Failover options where fiber and/or wireless options are not available or not feasible.
PRI		N/A	AT&T	N/A	AT&T	N/A	Unk.	PRI leased lines shall be used for DID/DOD line extensions at core or designated locations only.
GMan		N/A	AT&T	N/A	TelWest	N/A	Unk.	This is the preferred standard for FE or Gman ethernet connections that require high speed and are core locations.
DSL		N/A	AT&T	N/A	AT&T	N/A	Unk.	This is the preferred standard for site connectivity that require high speed and are remote locations where Cable connectivity is not available.
Cable Modem		N/A	Grande or Time Warner	N/A	Grande or Time Warner	N/A	Unk.	This is the preferred standard for site connectivity that require high speed and are remote locations where DSL is not available.
ATM		N/A	AT&T	N/A	AT&T	N/A	Unk.	This is the preferred standard for ISP connectivity where Full DS3, Gman (ethernet) connectivity is unavailable for Core locations only.
DS3		N/A	AT&T	N/A	AT&T	N/A	Unk.	This is the preferred standard for ISP connectivity where Gman (ethernet) connectivity is unavailable for Core locations only.
NETWORK ELEMENTS		Octet (Layer 2 Only)						
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
Workstation		N/A	City	N/A	City	N/A	City	
Server		N/A	City	N/A	City	N/A	City	
Printer		N/A	City	N/A	City	N/A	City	
UPS		N/A	City	N/A	City	N/A	City	
Security		N/A	City	N/A	City	N/A	City	
Stream		N/A	City	N/A	City	N/A	City	
Reserved		N/A	City	N/A	City	N/A	City	
NETWORK ELEMENTS		Maintenance						
Component		Sunset		Mainstream		Emerging		Notes
		Ver	Name	Ver	Name	Ver	Name	
Cisco (Critical Equipment)		N/A	Cisco SmartNet	N/A	Cisco SmartNet	N/A	Cisco SmartNet	Maintenance standard is a 3 Year contract with a 4-hour OnSite SLA

Cisco (Core or System Equipment)		N/A	Cisco SmartNet	N/A	Cisco SmartNet	N/A	Cisco SmartNet	Maintenance standard is a 3 Year contract with a 4-hour SLA
Cisco (Edge Equipment)		N/A	Cisco SmartNet	N/A	Cisco SmartNet	N/A	Cisco SmartNet	Maintenance standard is a 3 Year contract with a NBD SLA
IronPort		N/A	N/A	(INTERNET FILTER) City Hall - 5.5.2-030 for Web (INTERNET FILTER) Police - 5.5.2-030 for Web (MAIL FILTER) - 6.1.0-304	IronPort serviced through Cisco	N/A	IronPort serviced through Cisco	Maintenance standard is a 3 Year contract with a 4-hour SLA
