

# Kentucky Information Technology Standards (KITS)

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EAS Code	EAS Category Name	Standard	KITS Category Code	KITS Domain > Area > Category	KITS Description	Approved Products	Date
3100	Cable Plant	Category 6, unshielded twisted pair (UTP) copper cable up to a maximum of 295-feet; OR 8.3/125 micron single mode fiber cable; OR 50/125 micron multimode fiber optic cable LC connectors	I02.003.302	Network > Infrastructure > Transmission Medium	Transmission medium is the material and/or technology that carries signal from one location to another.	<p>Systimax products with Corning fiber:</p> <p>Systimax products with Corning fiber:</p> <ul style="list-style-type: none"> <li>• Category 6, unshielded twisted pair (UTP) copper cable;</li> <li>• OR 8.3/125 Single mode fiber cable;</li> <li>• OR 50/125 Multimode fiber optic cable.</li> </ul>	<p><b>Effective:</b> 7/1/1997</p> <p><b>Revised:</b> 12/1/2008</p> <p><b>Reviewed:</b> 6/17/2015</p>

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3110	Cable Plant Installation	<p>Cable plant installation based on current industry standards. The following are applicable:</p> <ul style="list-style-type: none"> <li>• TIA/EIA-568-B.1-7 Commercial Building Telecommunications Wiring Standard and its appendix and all addendums</li> <li>• TIA/EIA-568-B.2-11 Commercial Building Telecommunications Wiring Standard and its appendix and all addendums</li> <li>• TIA/EIA-569-B Commercial Building Standard for Telecommunications Pathways and Spaces</li> <li>• TIA/EIA-570-B Residential and Light Commercial Telecommunications Wiring Standard</li> <li>• TIA/EIA-606 Administrative Standard for the Telecommunications Infrastructure of Commercial Building</li> <li>• J-STD-607-A Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications</li> <li>• TIA/EIA-758-A Customer Owned Outside Plant Telecommunications Infrastructure Standard</li> <li>• TIA/EIA-526-7 Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant</li> <li>• TIA-EIA-526-14-A Optical Power Loss Measurements of Install Multimode fiber Cable Plant</li> <li>• TIA/EIA-568-3-3.1 Optical Fiber Cabling Components Standard</li> <li>• TIA/EIA-598-C Optical fiber Cable Color Code</li> <li>• TIA-758-A Customer Owned Outside Plant Telecommunications Infrastructure</li> <li>• National Electric Code</li> <li>• National Electric Safety Code</li> <li>• ASTM E814 Fire Stopping</li> <li>• ISO/IEC 11801: 2002/AMD 1</li> <li>• TSB 162 Telecommunications Cabling Guidelines for Wireless Access Points</li> <li>• TIA-942 Telecommunications Infrastructure Standard for Data Centers</li> </ul>	I02.003.302	Network > Infrastructure > Transmission Medium	Transmission medium is the material and/or technology that carries signal from one location to another.		<p><b>Effective:</b> 7/7/1997</p> <p><b>Revised:</b></p> <p><b>Reviewed:</b> 6/17/2015</p>

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3110		<ul style="list-style-type: none"> <li>• IEEE 802.3 Ethernet</li> <li>• IEEE 802.11 b/g/n WLAN</li> <li>• IEEE 802.16 WiMax</li> <li>• TIA-1003 Requirements for a Wireless LAN Based IP Telephony Endpoint</li> </ul>					
3200	Network Protocols	TCP/IP - the only protocol supported by the Commonwealth Office of Technology after December 31, 1998. For details, see the Agency Contact Memo at Agency Contact Memo 9707-01 Ethernet - LAN topology	102.004.409	Network > Transmission Type > Transmission Protocol	Transmission Protocol is a category that allows grouping and identification of various transmission standards, at a basic level in the OSI stack.		<p><b>Effective:</b> 7/1/1997</p> <p><b>Revised:</b> 12/1/2008</p> <p><b>Reviewed:</b> 6/17/2015</p>
3300	Network Hardware Components: Routers, Hubs, Remote Access, CSU/DSU, NICS, Modems	<ul style="list-style-type: none"> <li>• SNMP compliant</li> <li>• Modems: 56 Kbps v.92, International Telecommunications Union (ITU) data transmission standard</li> <li>• Ethernet NIC cards at 100Mbps/1Gps/10Gps</li> <li>• Wireless LAN installations must adhere to Enterprise IT Policy CIO-078 (Wireless LAN Policy).</li> </ul>	102.003.301	Network > Infrastructure > Hardware and Software	Specifically for Networks, Hardware and Software refers to many different kinds of devices and their firmware. These devices provide many things including routing, security, etc. The software included here is the firmware and/or Operating System (OS) associated with specific network devices.	<p>Routers/Switches:</p> <ul style="list-style-type: none"> <li>• Avaya Networks</li> </ul> <p>Wireless Data Networking:</p> <ul style="list-style-type: none"> <li>• Avaya Networks</li> </ul> <p>Virtual Private Networks:</p> <ul style="list-style-type: none"> <li>• Avaya Networks</li> <li>• NetMotion</li> </ul> <p>Load Balancing:</p> <ul style="list-style-type: none"> <li>• F5 Networks</li> </ul>	<p><b>Effective:</b> 7/1/1997</p> <p><b>Revised:</b> 6/17/2015</p> <p><b>Reviewed:</b> 6/17/2015</p>

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3440	Video Conferencing	<p>ITU-T Standards supported:</p> <ul style="list-style-type: none"> <li>• H.320, H.323, G.711, G.722, G.728, H.221, H.261, H.263, H.264, H.239, H.460, 18 &amp; 19</li> </ul> <p>Video Standards and Protocols, Algorithms and resolutions (pixels x lines):</p> <ul style="list-style-type: none"> <li>• ITU-T H.261</li> <li>• QCIF</li> <li>• 4SIF</li> <li>• SVGA</li> <li>• UXGA</li> <li>• ITU-T H.263++</li> <li>• SIF</li> <li>• FCIF</li> <li>• SXGA</li> <li>• 720p</li> <li>• ITU-T H.264</li> <li>• CIF</li> <li>• VGA</li> <li>• WXGA/+</li> <li>• 1080p</li> <li>• Frame rate: 5-30 frames per second</li> </ul> <p>Audio Resolution:</p> <ul style="list-style-type: none"> <li>• G.711, G.722, G.722.1, 64 bit &amp; 128 bit MPEG4 AAC-LD, AAC-LD Stereo</li> </ul> <p>Monitor Outputs:</p> <ul style="list-style-type: none"> <li>• S-Video, Composite, HD15, HDMI, DVI-I, Component</li> </ul> <p>Camera Inputs:</p> <ul style="list-style-type: none"> <li>• S-Video, Composite, HD15, HDMI, DVI-I, Component</li> <li>• Video format: NTSC</li> </ul> <p>Broadcast Standards:</p> <ul style="list-style-type: none"> <li>• NTSC</li> </ul> <p>Audio Conferencing:</p> <ul style="list-style-type: none"> <li>• Omnidirectional pickup; push-to-talk (cardoid/super-cardoid) or omnidirectional, automatic microphone level adjustment; full duplex audio, full duplex, adaptive acoustic echo canceling</li> </ul> <p>Communications Protocols:</p> <ul style="list-style-type: none"> <li>• ITU-T H.221</li> </ul> <p>Interfaces:</p> <ul style="list-style-type: none"> <li>• 10/100/1000 Full Duplex Ethernet</li> </ul> <p>Transmission Rates:</p>	I02.004.405	Network > Transmission Type > Video Conferencing	<p>Videoconferencing is the conduct of a videoconference (also known as a video conference or video teleconference) by a set of telecommunication technologies which allow two or more locations to communicate by simultaneous two-way video and audio transmissions. It has also been called 'visual collaboration' and is a type of groupware.</p>	<ul style="list-style-type: none"> <li>• Cisco TelePresence (formerly Tandberg) <ul style="list-style-type: none"> <li>DX80 23" monitor desktop</li> <li>BFCP dual stream WIFI Android OS- 1080p cam</li> <li>Touch screen interface</li> </ul> </li> <li>DX70 14" monitor desktop <ul style="list-style-type: none"> <li>BFCP dual stream WIFI</li> <li>Android OS w/ 8mp cam</li> <li>Touch screen interface</li> </ul> </li> <li>SX80 1080P@60 fps 4x or 20x camera. Avail w/ speaker tracking dual cameras and 10" touch screen control</li> <li>SX20 1080p with 3 camera options</li> <li>SX10 economy unit with 5x camera</li> <li>• Polycom</li> <li>RealPresence Group system <ul style="list-style-type: none"> <li>300/500 Small Room system</li> </ul> </li> <li>HDX7000 720p with 12x Camera</li> </ul> <p>See also Category for Desktop Video Conferencing.</p>	<p><b>Effective:</b> 10/21/2009</p> <p><b>Revised:</b> 6/17/2015</p> <p><b>Reviewed:</b> 6/17/2015</p>

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3440		<ul style="list-style-type: none"> <li>• 384 Kbps</li> </ul>					
3450	Desktop Video Conferencing	<p>ITU-T Standards supported:</p> <ul style="list-style-type: none"> <li>• G.711, G.722, G.728, H221, H261, H263</li> </ul> <p>Video Standards and Protocols, Algorithms and resolutions (pixels x lines):</p> <ul style="list-style-type: none"> <li>• T.120 standard for data collaboration</li> </ul> <p>Video Decoding:</p> <ul style="list-style-type: none"> <li>• up to 30 fps (frames per second)</li> </ul> <p>Video Encoding:</p> <ul style="list-style-type: none"> <li>• up to 22 fps</li> </ul> <p>Interfaces:</p> <ul style="list-style-type: none"> <li>• ISDN or IP (H.323 or SIP)</li> </ul>	I02.004.405	Network > Transmission Type > Video Conferencing	Videoconferencing is the conduct of a videoconference (also known as a video conference or video teleconference) by a set of telecommunication technologies which allow two or more locations to communicate by simultaneous two-way video and audio transmissions. It has also been called 'visual collaboration' and is a type of groupware.	<p>Cisco TelePresence (formerly Tandberg):</p> <ul style="list-style-type: none"> <li>• Movi</li> </ul> <p>Microsoft Lync - 2010 Version: Mainstream support slated to end 4/12/2016; Extended support slated to end 4/13/2021.</p> <p>Office Communications Server (OCS) 2007 Mainstream support slated to end 1/8/2013; Extended support slated to end 1/9/2018.</p>	<p><b>Effective:</b> 7/1/1997</p> <p><b>Revised:</b> 6/17/2015</p> <p><b>Reviewed:</b> 6/17/2015</p>
3460	Web Video / Audio Conferencing / Collaboration		I02.004.404	Network > Transmission Type > Web Conferencing	Web conferencing refers to a service that allows conferencing events to be shared with remote locations. In general the service is made possible by Internet technologies, particularly on TCP/IP connections. The service allows real-time point-to-point communications as well as multicast communications from one sender to many receivers. It offers information of text-based messages, voice and video chat to be shared simultaneously, across geographically dispersed locations. Applications for web conferencing include meetings, training events, lectures, or short presentations from any computer.	<ul style="list-style-type: none"> <li>• Citirx (GoToMeeting, GoToWebinar, GoToTraining)</li> <li>• Elluminate</li> <li>• iLinc</li> <li>• Microsoft Lync 2010 version: Mainstream support slated to end 4/12/2016; Extended support slated to end 4/13/2021.</li> <li>• Office Communications Server (OCS) 2007</li> <li>• Adobe Connect</li> </ul>	<p><b>Effective:</b> 12/11/2009</p> <p><b>Revised:</b> 8/31/2016</p> <p><b>Reviewed:</b> 8/31/2016</p>

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3505	Network Services – Electronic Commerce and Payments	eMARS ePay (via the Link-to-Gov contract) is the approved enterprise electronic commerce facility for credit card payments via the internet. This full service facility includes account creation, merchant bank services, secure transactions, processing of credit card payments, authorization and settlement. Agency Contact Memo 9903-03 describes the pilot, contract and the e-commerce workflow.	A01.004.021	System > Financial Management > Accounts Receivable	Software that supports collections and receivables, including deposits, fund transfers, and receipts for sales or service.	All approved web browser products that support SSL encryption	<p><b>Effective:</b> 6/1/1999</p> <p><b>Revised:</b> 6/17/2015</p> <p><b>Reviewed:</b> 6/17/2015</p>
3510	Network Services – Internet/ Intranet Web Server	World Wide Web Consortium (W3C) standards	I01.002.202	Platform > Operating System > Server – Midrange	A midrange computer operating system is, in simplest terms, a collection of programs that manage a computer system's internal workings - its memory, processors, devices, and file system. Midrange computers are almost universally known as servers to recognize that they often "serve" applications to end users at "client" computers, that they use a client/server computing model.	<ul style="list-style-type: none"> <li>• Apache HTTP Server</li> <li>• Apache Tomcat</li> <li>• Microsoft Internet Information Server (version 7 or later)</li> <li>• WebSphere Web Server (both z/OS and UNIX)</li> </ul>	<p><b>Effective:</b> 7/1/1997</p> <p><b>Revised:</b> 8/31/2016</p> <p><b>Reviewed:</b> 8/31/2016</p>

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3511	Network – Internet/ Intranet - Web Browser	World Wide Web Consortium (W3C) standards	A02.032.402	Application Components > Web Access > Web Browser	Software used to locate, retrieve and also display content on the World Wide Web, including web pages, images, video and other files.	<ul style="list-style-type: none"> <li>• Microsoft Internet Explorer: <ul style="list-style-type: none"> <li>- IE 11</li> </ul> </li> <li>• Mozilla Firefox: <ul style="list-style-type: none"> <li>- For maximum security, and to take advantage of advanced client software and web site functions and features, the latest browser release should be installed and used. Selecting the setting to automatically install updates is recommended.</li> </ul> </li> <li>• Google Chrome <ul style="list-style-type: none"> <li>- For maximum security, and to take advantage of advanced client software and web site functions and features, the latest browser release should be installed and used. Selecting the setting to automatically install updates is recommended.</li> </ul> </li> </ul>	<p><b>Effective:</b> 7/1/1997</p> <p><b>Revised:</b> 1/7/2016</p> <p><b>Reviewed:</b> 1/7/2016</p>
3520	Network Services – Mainframe Access		A03.040.010	Interface > Application Interface > API	Source code based specification intended to be used as an interface by software components to communicate with each other. An application programming interface (API) may include specifications for routines, data structures, object classes, and variables (e.g., per Wikipedia).	<p>DOS and Windows workstations:</p> <ul style="list-style-type: none"> <li>• BlueZone by Rocket Software</li> <li>• MochaSoft</li> <li>• IBM Personal Communications</li> <li>• IBM WebSphere Host On-Demand</li> </ul> <p>Mainframe File Transfer:</p> <ul style="list-style-type: none"> <li>• BlueZone by Rocket Software</li> <li>• MochaSoft</li> </ul> <p>NOTE: AttachMate is no longer supported.</p>	<p><b>Effective:</b> 7/1/1997</p> <p><b>Revised:</b> 6/17/2015</p> <p><b>Reviewed:</b> 6/17/2015</p>

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3550	Network Services – Storage Area Networks		I01.005.503	Platform > Virtualization > Storage	Storage virtualization applies virtualization concepts to enable better functionality and more advanced features within the storage system. Storage systems use special hardware and software along with disk drives in order to provide very fast and reliable storage for computing and data processing.	<ul style="list-style-type: none"> <li>• EMC</li> <li>• HP</li> <li>• IBM</li> <li>• Netapp</li> <li>• EMC Xtremio - SSD Storage array</li> <li>• Pure Storage - SSD Storage array</li> </ul>	<p><b>Effective:</b> 12/20/1999</p> <p><b>Revised:</b> 1/28/2016</p> <p><b>Reviewed:</b> 4/8/2016</p>
3600	Network Management	Simple Network Management Protocol – SNMP (Version 2 and above)	A01.012.080	System > Systems Management > Fault management	Software that detects, isolates, and corrects malfunctions in a telecommunications network and compensates for environmental changes. This includes maintaining and examining error logs, accepting and acting on error detection notifications, tracing and identifying faults, carrying out sequences of diagnostics tests, correcting faults, reporting error conditions, and localizing and tracing faults by examining and manipulating database information.	<p>For UNIX and Windows:</p> <ul style="list-style-type: none"> <li>• Avaya Unified Communications Management (UCM)</li> <li>• BMC ProactiveNet Performance Management Solution</li> <li>• Cacti</li> <li>• HP Network Management System</li> <li>• Microsoft System Center Operations Manager (SCOM)</li> <li>• Nagios</li> <li>• What's Up Gold (Ipswitch)</li> </ul>	<p><b>Effective:</b> 7/1/1997</p> <p><b>Revised:</b> 2/15/2012</p> <p><b>Reviewed:</b> 6/17/2015</p>

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3650	Content Delivery Network	Support forward and reverse proxy of the following IP protocols: <ul style="list-style-type: none"> <li>• HTTP</li> <li>• FTP over HTTP</li> <li>• FTP over TCP</li> <li>• FTPS (for mainframe file transfer)</li> <li>• HTTPS (secure transport)</li> <li>• NNTP</li> <li>• MMS</li> <li>• TSPard</li> <li>• ICAP</li> </ul> Support for a variety of streaming media formats including MMS (Microsoft Windows Media) and RTSP (RealNetworks Media streaming) Authentication using Active Directory Flexibility that offers server-based or appliance solutions	I01.003.301	Platform > Communications Hardware > Network Interface Device	For the purposes of the IRM, a Network Interface Device is a broad term that includes devices that serve as a demarcation point between the carrier's local loop and the customer's on-premises wiring, where the data wires end and a customer's premise wiring starts, and network interface controllers (also known as a network interface card, network adapter, LAN adapter and by similar terms) which may be internal or external to a piece of computer hardware.	<ul style="list-style-type: none"> <li>• Network Appliance</li> <li>• Microsoft Forefront Threat Management Gateway (formerly Microsoft Internet Security and Acceleration (ISA) Server) – replaces Microsoft Proxy Server. A software-based solution that runs on approved Microsoft server OS platforms only.</li> </ul>	<b>Effective:</b> 10/1/2003 <b>Revised:</b> 1/19/2011 <b>Reviewed:</b> 6/17/2015