

Kentucky Information Technology Standards (KITS)

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EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
10005	Project Management Framework	The Enterprise Project Management Framework establishes the basic conceptual structure for managing IT projects across the Commonwealth of Kentucky. This Framework, and supporting policies, are intended to establish minimum baseline requirements for project oversight while providing the flexibility necessary to successfully manage projects of various size, risk and complexity. Details about the Commonwealth of Kentucky Enterprise Project Management Framework are available at " https://technology.ky.gov/services-and-support/Pages/PM-Framework.aspx ".	B10.813.538	General Government > Support delivery of state services > Program / Project Management	Defines the set of capabilities to manage and control a particular effort of an organization. This includes intra-agency work.	
10100	Project Management Software	Software that supports project management functions such as scheduling, resource planning, and cost management.	A02.027.319	Application Components > Process Automation and Management > Project Management	Software that provides capabilities for cost estimation and planning, scheduling, cost control and budget management, resource allocation, collaboration, communication, quality management and documentation or administration systems, which are used to deal with the complexity of large projects.	<ul style="list-style-type: none"> • Open Workbench • Microsoft Project • Microsoft Project Online
10200	Project Management Information System	PMBOK defines Project Management Information System (PMIS) as: An information system consisting of the tools and techniques used to gather, integrate, and disseminate the outputs of project management processes. It is used to support all aspects of the project from initiating through closing, and can include both manual and automated systems. Ref: https://www.pmi.org/learning/library/project-management-information-systems-overviews-5813	A02.027.319	Application Components > Process Automation and Management > Project Management	Software that provides capabilities for cost estimation and planning, scheduling, cost control and budget management, resource allocation, collaboration, communication, quality management and documentation or administration systems, which are used to deal with the complexity of large projects.	<ul style="list-style-type: none"> • Microsoft Project Server • Microsoft Project Online
1200	High Volume Scanners – Digital Imaging	Capable of Scanning resolutions between 300 and 9600 depending on the application. Use at least 256 levels of grey or 48 bit color. Compliance with CCITT Group III or IV. Minimum scan speed 100ppm duplex. Refer to ANSI/AIIM MS44-1998 (R1993) - Recommended Practice for Quality Control of Image Scanners.	I01.004.402	Platform > Peripheral > Computer Input Device	Inputs are the signals or data received by the system, and outputs are the signals or data sent from it. For the purposes of the IRM, computer input devices are those	<ul style="list-style-type: none"> • Kodak • Hewlett Packard • Fujitsu

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					that provide data to the machine/application combination for further processing or for manipulation by users through the human-computer interface devices.	<ul style="list-style-type: none"> • Canon
1310	Remote Network Access	All Remote Users must follow the security requirements set forth in this standard for any remote host accessing Commonwealth IT resources. Remote users must make every effort to secure the remote host used to access Commonwealth IT resources. All remote users are responsible for following applicable Commonwealth policy when handling Commonwealth data that has been accessed remotely. In addition, all remote users are also responsible for following any guidelines issued by their agency's Privacy/Compliance Officer, if applicable. Remote access to the Commonwealth's network should only be achieved by using one of the approved products specified herein.	S03.002.003	Controls > Control Categories > Technical	The security controls (i.e., safeguards or countermeasures) for an information system that are primarily implemented and executed by the information system through mechanisms contained in the hardware, software, or firmware components of the system. See FIPS 200.	<ul style="list-style-type: none"> • IPSEC VPN (Please complete COT Form F-181 to request) • Palo Alto Global Protect VPN • NetMotion VPN (Please complete COT Form F-181 to request) • Citrix Workspace for Windows • SSL VPN (Please complete COT Form F-181 to request)
1320	Servers	Must be able to run either z/OS, the UNIX / AIX / Linux operating systems, or Windows Server operating system. Wintel Server Minimum Configuration: One vCPU with 2 cores, 2 GB RAM. 80GB disk of disk space for Operating System and minimum 20GB for data. SMP Wintel Server: The minimum configuration of a server should reflect the resource requirements of the application. Initial application resource requirements plus at least one year of growth both in memory and processor capacity should reflect the minimum configuration requirement. Redundant power supplies.	I01.001.102	Platform > Hardware > Server – Midrange	A midrange computer is a medium-sized computer system or server. Midrange computers encompass a very broad range and reside in capacity between high-end PCs and mainframes. Formerly called "minicomputers", which were hosts to dumb terminals connected over dedicated cables, most midrange computers today function as servers in a network.	<ul style="list-style-type: none"> • IBM zSeries servers for z/OS • IBM zSeries servers for Linux • IBM xSeries servers for Windows and Linux • IBM pSeries (Formerly known as the RS/6000 series, for UNIX) • Wintel servers running the Microsoft Windows Server OS from Dell, HP/Compaq, IBM
1410	Desktop Computers	Refer to rated service description: https://technology.ky.gov/services-and-support/Pages/Client-Computing-Tier-I.aspx	I01.001.103	Platform > Hardware > Personal Computer – Desktop	A desktop computer is a personal computer in a form intended for regular use at a single location, as opposed to a mobile laptop or portable computer. A Personal Computer (PC) is any general-purpose computer whose size, capabilities, and original sales price make it useful for individuals, and which is intended to be operated directly by an end-user with no intervening computer operator.	<ul style="list-style-type: none"> • Dell • Lenovo

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1460	Notebook / Laptop Computers	https://technology.ky.gov/services-and-support/Pages/Client-Computing-Developer-Laptop-Bundle.aspx and https://technology.ky.gov/services-and-support/Pages/Client-Computing-Tier-1.aspx	I01.001.104	Platform > Hardware > Personal Computer – Laptop	A laptop computer is a personal computer for mobile use. A Personal Computer (PC) is any general-purpose computer whose size, capabilities, and original sales price make it useful for individuals, and which is intended to be operated directly by an end-user with no intervening computer operator. A laptop integrates most of the typical components of a desktop computer, including a display, a keyboard, a pointing device such as a touchpad and speakers into a single unit.	<ul style="list-style-type: none"> • Chromebook • Dell • Lenovo
1480	Mobile Computing Devices	5th Gen 10.0 with 64GB RAM, wifi or cellular.	I01.001.105	Platform > Hardware > Mobile Computing Device	A mobile computing device is a small, hand-held computing device, typically having a display screen with touch input and/or a miniature keyboard and weighing less than 2 pounds (0.91 kg). Such devices have an Operating System (OS), and can run various types of application software, known as apps. Most devices can also be equipped with WI-FI, Bluetooth and GPS capabilities that can allow connections to the Internet and other Bluetooth capable devices such as an automobile or a microphone headset. A camera or media player feature for video or music files can also be typically found on these devices along with a stable battery power source such as a lithium battery.	<ul style="list-style-type: none"> • Apple iPad (Any Version) • Samsung Galaxy Tab
1600	Printers	• Network printers must be Ethernet ready • SNMP Support • Support Postscript 2 functionality • Support PCL Level 5 or higher • Laser • Duplex Capable	I01.004.403	Platform > Peripheral > Computer Output Device	Inputs are the signals or data received by the system, and outputs are the signals or data sent from it. For the purposes of the IRM, computer output devices are those that provide data from the machine/application combination to other machines or to the user for asynchronous consumption.	<ul style="list-style-type: none"> • DeltaMaker 3D Printer • HP Designjet Z5200 • MakerBot Replicator Desktop 3D Printer 5th Generation • Xerox MPS- www.ky-mps.com • Airwolf 3D Printer

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1610	Multifunction Devices (MFD)	Minimum acceptable configuration: • TCP/IP • Ethernet • SNMP capable • Must support Postscript Level 2 and include PCL Level 5 or higher support. • Fax Modem - 56 Kbps • Color scan • Laser • Secure Print • Duplex	I01.004.403	Platform > Peripheral > Computer Output Device	Inputs are the signals or data received by the system, and outputs are the signals or data sent from it. For the purposes of the IRM, computer output devices are those that provide data from the machine/application combination to other machines or to the user for asynchronous consumption.	<ul style="list-style-type: none"> Xerox MPS-www.ky-mps.com
1710	Mailing Machine	Mailing Machines, Systems and Related Software Includes Mailing Machines that automatically or manually feed, seal, postmark, meter stamps, count and stack letters and machines that print postage on wet, dry or pressure-sensitive tape for packages and bulky envelopes. Mail/Parcel Scales and Weighing Machines that are used for weighing and managing weighing/shipping information for packages and envelopes.	I01.004.KY001	Platform > Peripheral > Mailing Systems	Mailing Systems that feed, seal, postmark, meter stamps, count and stack letters and machines that print postage on wet, dry or pressure-sensitive tape for packages and bulky envelopes. Mail/Parcel Scales and Weighing Machines that are used for weighing and managing weighing/shipping information for packages and envelopes.	<ul style="list-style-type: none"> Pitney Bowes DM400C™ postage meter
1910	Smartphone	A smartphone is a mobile phone that offers more advanced computing ability and connectivity than a contemporary basic feature phone. Smartphones and feature phones may be thought of as handheld computers integrated with a mobile telephone, but while most feature phones are able to run applications based on platforms such as Java ME, a smartphone usually allows the user to install and run more advanced applications. Smartphones run complete operating system software proving a platform for application developers. All wireless phone devices are required to be password protected to prevent unauthorized access to wireless voicemail through Caller ID “spoofing”.	I01.001.105	Platform > Hardware > Mobile Computing Device	A mobile computing device is a small, hand-held computing device, typically having a display screen with touch input and/or a miniature keyboard and weighing less than 2 pounds (0.91 kg). Such devices have an Operating System (OS), and can run various types of application software, known as apps. Most devices can also be equipped with WI-FI, Bluetooth and GPS capabilities that can allow connections to the Internet and other Bluetooth capable devices such as an automobile or a microphone headset. A camera or media player feature for video or music files can also be typically found on these devices along with a stable battery power source such as a lithium battery.	<ul style="list-style-type: none"> Verizon (Additional approval needed) T-Mobile (Additional approval needed) Smartphone device on ATandT price contract, including iPhones, are approved for use and do not require an exception. ATandT Wireless (For agencies in the executive branch, ATandT will be the primary vendor)
2060	Cloud Services (XaaS)	Infrastructure as a service, or IaaS, delivers on-demand infrastructure resources to organizations via the cloud, such as compute, storage, networking, and virtualization. Customers don't have to manage, maintain, or update their own data center infrastructure, but are responsible for the operating system, middleware, virtual machines, and any applications or data. Platform as a service, or PaaS, delivers and manages all the hardware and software resources to develop applications through the cloud. Developers and IT operations teams can use PaaS to develop, run, and manage applications without having to build	B10.802.354	General Government > Executive Direction and Management > IT Strategy and Innovation	Cloud Services refers to a wide range of services covering infrastructure, platforms, or software that are hosted by third-party providers delivered on demand to companies and customers over the	<ul style="list-style-type: none"> Thentia Cloud Any Cloud Services that are vendor driven that would live outside of COT managed cloud

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		and maintain the infrastructure or platform on their own. Customers still have to write the code and manage their data and applications, but the environment to build and deploy applications is managed and maintained by the cloud service provider. Software as a service, or SaaS, provides the entire application stack, delivering an entire cloud-based application that customers can access and use directly over the internet. SaaS products are completely managed by the service provider and come ready to use, including all updates, bug fixes, and overall maintenance of the solution.			internet. These services are designed to provide access to applications and resources, without the need for on-premise infrastructure or hardware.	<p>environments would be processed as an Exception.</p> <ul style="list-style-type: none"> • Jurisdiction Online • ServiceNow Cloud Services • Azure COT Tenant • CattleMax • AWS Consumption Bucket • Box • Google – COT Tenant • Salesforce (All Salesforce deployments must be pre-approved by the CIO) • AWS COT control tower
2100	Operating System (O/S) – Desktop and Laptop / Notebook	64-bit operating system with graphical user interface for Intel processor compatible platform.	I01.002.203	Platform > Operating System > Personal Computer	For personal computers, operating systems are generally tailored to the needs of users on standalone machines that may or may not connect to a network, and are generally not servers of information to large numbers of other machines.	<ul style="list-style-type: none"> • Stratodesk NoTouch Desktop - Thin client endpoint OS and Management solution • Windows 10 Enterprise • Patch My PC
2110	Operating System – Server	For zSeries enterprise servers: POSIX compliant 64-bit operating system. For RISC platforms: POSIX compliant 64-bit operating system. For Intel platforms: 32-bit or 64-bit operating system.	I01.002.201	Platform > Operating System > Server – Mainframe or Supercomputer	A mainframe or supercomputer 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. Mainframe operating systems are tailored to meet the substantially different architectures and purposes of mainframes as high-volume transaction processing devices, or the purposes of supercomputers as high-volume algorithmic processors.	<ul style="list-style-type: none"> • IBM z/VM • Oracle Solaris • Oracle Linux (supported versions) • IBM z/OS • IBM AIX (supported versions) • Ubuntu (supported versions) • OLVM (Oracle Virtualization Manager for Linux) • Rancher • Communications Suite: Dynamic Report System (DRS), VPS/TCPIP, VMCF/VTAM, and VTAM Printer Support (VPS) • Red Hat Linux (supported versions) • Microsoft Windows Server • CentOS (supported versions)

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2110	Operating System – Server	For zSeries enterprise servers: POSIX compliant 64-bit operating system. For RISC platforms: POSIX compliant 64-bit operating system. For Intel platforms: 32-bit or 64-bit operating system.	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"> JBoss Enterprise Application Platform
2200	Remote Desktop Control Software	Requires a PPP TCP/IP based connection. All transmissions must be encrypted using the Secure Sockets Layer (SSL) protocol, and require a non-anonymous login before establishing the session connection. Remote Desktop Control Software is grouped into three categories, depending on its intended purpose: • Single User (a user accesses their workstation desktop remotely) • Multi User (many users execute applications remotely) • Remote Administration (system administrators' access user workstations in order to debug problems and make configuration changes.	A02.030.KY003	Application Components > Unified Communications and Collaboration > Remote Desktop Control	Software for controlling a computer remotely via another device that's connected through a network or the Internet. Remote desktop software enables the user to see and control a connected PC as though they are sitting directly in front of it.	<ul style="list-style-type: none"> Windows Remote Assistance feature Remote Desktop Services (formerly Windows Server 2008 Terminal Services) Citrix (GoToMeeting, GoToWebinar, GoToTraining, XenApp) Microsoft System Management Server (SMS) Microsoft System Center Configuration Manager (SCCM) Client Management Suite (Symantec) Windows Remote Desktop Services Windows Server Terminal Services ConnectWise ScreenConnect Support
2210	Host Print	TCP/IP host printing	I01.005.506	Platform > Virtualization > Print Server	Print server virtualization extends the virtualization concept to the access to and management of print resources. For the purposes of the IRM, a print server can be a dedicated device, a standalone computer, specialized software, or some combination that handles receipt, queuing, delivery, and status of print jobs for printers on the network.	<ul style="list-style-type: none"> Brooks Remote Print Manager (RPM)

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2250	Barcoding Software	Software must adhere to the following: Barcode Support: • Industry standard adherence • Precise bar width specification • Stretchable Bar Width specification • Database integration barcodes • Advanced Serialization • Sequentially Numbered Bar Codes • Print-time Data Prompt • Start/Stop character specification • Human readable text options • Automatic Check Digit • Wide-to-narrow bar specification • Fixed Data Source • Human Readable Text Formatting • Variable Data Source - database and counter (2D) Industry Standard: • PDF417 (Truncation, ECC Level, Data Columns) • Micro PDF417 • Data Matrix (Square and Rectangular) • QR • Micro QR (Linear) Standard: • Australian Post 4-State • CODE128 (Auto) • CODE128 (A, B, C) • CODE39 • CODE39 FULL ASCII • CODE93 • EAN13 (with extension support) • EAN8 (with extension support) • HIBC • GS1-128 • GS1 DataBar-14 • GS1 DataBar Limited • GS1 DataBar Stacked • GS1 DataBar Stacked Omnidirectional • GS1 DataBar Truncated • I2OF5 • Circular I2OF5 • ISBN (with extension support) • ISBN 13 (with extension support) • ISMN • ISSN (with extension support) • MSI • POSTNET • RATIONAL CODABAR • RSS14 • RSS14 Limited • RSS14 Stacked • RSS14 Stacked Omnidirectional • RSS14 Truncated • S2OF5 • UCCEAN128 (Full AI Wizard support) • UPCA (with extension support) • UPCE (with extension support) • UPC Extension 2 • UPC Extension 5 • USPS ONECODE	A02.031.381	Application Components > Visualization > Charting	Software to develop graphical representation of data in which the data is represented by symbols such as bars, lines, slices, dots, size, etc.	<ul style="list-style-type: none"> TechnoRiver Studio Pro. TEC-IT TBARCODE Office BarTender Enterprise Edition
2255	Barcode Reader Software	Software to read various types of barcodes	A02.028.KY004	Application Components > Productivity > Miscellaneous Productivity Tools and Utility software	Software used for miscellaneous productivity and utility tasks.	<ul style="list-style-type: none"> Orca Scan - Bulk Barcode Scanner app for iPhone
2300	Statistical	Software that operates across the range of platforms used by applications in the commonwealth (desktop, midrange, mainframe) that can extract data, store in various formats, can group data, and can perform all required statistical processes and tests.	A02.020.206	Application Components > Analysis, Reporting and Statistics > Mathematical	Software that provides an environment for statistical analysis, predictive and descriptive modeling, data mining, forecasting, optimization, simulation.	<ul style="list-style-type: none"> SocNetV MXG Software ProMiles (Government Version) Statit piMD - For analyzing healthcare data Levy, Ray, Shoup (LRS) PageCenterX RStudio - IDE for R programming language Mplus Ver 8 - Base Program and Combination Add-On Statistical Analysis System (SAS), available for a number of platforms, including desktop, midrange, and mainframe. MARK EP Evaluator SPSS (IBM)
2310	Business Intelligence Software	BI software capable of accessing and integrating data across the diverse range of IT platforms (LAN, departmental, midrange, mainframe) used by applications in the commonwealth, and that can query and extract data, analyze data, group data, store in various formats and can perform all required analytical processes and tests.	A02.020.202	Application Components > Analysis, Reporting and Statistics > Business Intelligence	Software to support identifying, extracting, and analyzing business data, such as performance and cost metrics to support better business	<ul style="list-style-type: none"> Microsoft Power BI Oman Bid Tabs Software

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					decision-making.	<ul style="list-style-type: none"> Oracle Weblogic Software support by Mythics Urban SDK BusinessObjects Software Suite from SAP Tableau PitchBook BankScan Optical Character Recognition Software Fraud Detection and Case Management (Pondera - Thomson Reuters)
2320	Strategic Planning / Decision Support Software	Software that support strategic planning and decision making.	A02.020.203	Application Components > Analysis, Reporting and Statistics > Decision Support	Software that supports business or organizational decision-making activities. Supports the management, operations, and planning levels of an organization and helps to make decisions, which may be rapidly changing and not easily specified in advance.	<ul style="list-style-type: none"> JobsEQ by Chmura Software TREDIS Economic Impact Analysis Software Uptake Technologies Fleet Predictive Analytics Solution Decision Lens WalkME
2330	Electronic Documents – Final Version for Distribution	Portable Document Format (PDF) is the approved format for the creation of final official copies of records for distribution. NOTE: PDF/A, ISO 19005-1:2005 (archival) is the required format for long term document storage to comply with KDLA requirements. PDF, ISO 32000-1:2008 (non-archival) is the standard for short term document storage where archival storage is not a requirement.	A02.023.265	Application Components > Document and Content Management > Records Management	Software that supports the management and stewardship of a type of information by the government in order to facilitate communication and information archival.	<ul style="list-style-type: none"> Tax Express
2340	Electronic Forms	Various trade and industry associations provide guidelines for the development and design of forms; however no de facto standards exist for electronic forms. Standards do exist for the interface with other applications and these must be followed: • compliant for links to approved databases • MAPI compliant for use with Microsoft Exchange messaging system • TCP/IP compliant for Internet distribution • Microsoft Edge, Mozilla Firefox and Google Chrome compliant	A02.023.263	Application Components > Document and Content Management > Forms Management	Software that supports the creation, modification, and usage of physical or electronic documents used to capture information within the business cycle.	<ul style="list-style-type: none"> FormValidation.io for Google's Material Design Mobile Forms by Field2Base OpenText Liquid Office Nintex DocGen for Salesforce (formerly Drawloop) Microsoft Forms OpenText Exstream (formerly known as HP Exstream) ActivePDF Toolkit Developer Formstack GemBox.Document

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						<ul style="list-style-type: none"> ActivePDF Toolkit
2370	Electronic Commerce – Electronic Signature	KRS 369.101 to 369.120 -Uniform Electronic Transactions Act (UETA as enacted by the 2000 General Assembly). IETF (Internet Engineering Task Force) X.509 Public Key Infrastructure (PKI latest version for digital certificates) Interoperates and fully supports critical enterprise infrastructure services and applications such as network protocols, desktop operating systems, e-mail, web servers, database management software, firewalls and directory services. Symmetric encryption algorithms required for securing content: U.S. Data Encryption Standard (DES) in accordance with U.S. FIPS PUB 46-2 and ANSI X3.92 and Triple-DES in accordance with ANSI X9.52 Also refer to the KY Department of Libraries and Archives “Understanding Records Management: Electronic Records” web page. Under the “Guidance” heading select “Electronic Signature Recordkeeping guidelines”.	A02.029.341	Application Components > Security Controls > Digital Signature	Software to use and manage electronic signatures to support.	<ul style="list-style-type: none"> Adobe Pro DC Silanis e-Sign Desktop provides a solution for electronically signing documents and routing for approval via workflow. Adobe Sign Adobe Acrobat Reader or Kofax (formerly Nuance) PDF Converter Enterprise. These PDF tools can be used for applying electronic signature to documents. These tools also provide the ability to apply digital signatures if used in combination with a digital certificate from a certificate authority (CA). BOX Sign DocuSign
2400	Database Management Software	ANSI SQL-92	A02.021.226	Application Components > Data Management > Database Management System	Software that supports the storage, modification, extraction, and search for information within a database.	<ul style="list-style-type: none"> Microsoft SQL Server Developer Idera SQL Diagnostic Manager SQL Server – on Windows IBM DB2 - on z/OS DbSchema Pro Desktop Software Oracle – on Linux IBM DB2 – LUW Microsoft Access IBM DB2 Personal Edition - For development use only. MySQL IDEDQ / ICEDQ SolarWinds Database Performance Analyzer IBM IMS Hierarchical database – on z/OS (for legacy applications only) Microsoft SQL Server Express

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2450	Data search, analysis and visualization software	Software that searches, analyzes and visualizes data	A02.021.KY001	Application Components > Data Management > Data Search, Data Analysis, Data Visualization	Software that searches, analyzes and visualizes data	<ul style="list-style-type: none"> • Komprise • MicroView FMWorks • Elastic Stack • JusticeText • Copernic Search Server • Sony Ci Digital Asset Management • AWS/Carahsoft
2500	Office Suite	Supported by the approved operating systems for desktop and notebook computers. Graphical User Interface functionality and compatibility among all tools in the office suite. Integrated import and export support.	A02.028.KY001	Application Components > Productivity > Office Suite	Software suite used for word processing, spreadsheet, presentation etc. This category is for application components that performs multiple functions.	<ul style="list-style-type: none"> • Microsoft - Word • Microsoft Office: For documents that interact with eMARS Advantage Financial and Procurement, Office 2013, 2010 or 2007 is required. 2016 version. Approved for use with Office 365. 2013 version. Extended support slated to end on 04/11/2023. • Close Caption add-in for Power Point / STAMP • Red Notebook • Microsoft - Excel
2505	Microsoft 365 Web Apps	Supported by the approved operations systems, Microsoft desktop client software, and internet browsers for desktop and notebook computers. Graphical User Interface functionality and compatibility among all Microsoft 365 online applications and services within the Microsoft 365 portal and Microsoft Office desktop suite.	A02.028.KY001	Application Components > Productivity > Office Suite	Suite of business productivity applications and services (word processing, spreadsheets, presentation, etc.) hosted in Microsoft's online environment. This category is for web-based applications and services that perform multiple functions.	<ul style="list-style-type: none"> • All Microsoft approved applications and services available through the Commonwealth's Microsoft 365 government tenant (https://portal.office.com)
2510	Financial Management Software		A01.004.KY000	System > Financial Management > Financial Management	Software that support various financial management business processes.	<ul style="list-style-type: none"> • Workiva • Gravity Financial Close Management • TurboTax • Accruint for Government • NIGP 5-Digit Commodity Code Site License (Public)

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						<ul style="list-style-type: none"> REMI Tax-PI Business Valuation Report Builder (from Haleo Corporation) Calero Pinnacle Software ValuAdder (from Haleo Corporation) QuickBooks Enterprise Microsoft Dynamics GP Reliable Controls RC Archive ScanWriter Excel
2515	Financial Audit Management Software		A01.004.023	System > Financial Management > Financial Audit	Software used to track and manage financial audits.	<ul style="list-style-type: none"> ACL Analytics TeamMate Plus TeamCloud Hosting / Wolters Kluwer AuditBoard Sync
2520	Procurement Software		A01.001.002	System > Acquisition Management > Procurement	Software used in the acquisition of goods or services and management of the contracts.	<ul style="list-style-type: none"> SpendMap
2530	Grants Management Software	Software that support various grants management business processes.	A01.005.KY000	System > Grants Management > Grants Management	Software that support various grants management business processes.	<ul style="list-style-type: none"> Agate IntelliGrants IGX
2540	Facilities Management Systems	Software that supports facilities management including the maintenance, administration, certification, and operation of buildings that are possessions of the Commonwealth government.	A01.010.060	System > Property and Asset Management > Facilities	Software that supports facilities management including the maintenance, administration, certification, and operation of office buildings that are possessions of the government.	<ul style="list-style-type: none"> Automated Logic WebCTRL (Trend Export) Velocity (door swipe system/monitoring for building access) Commonwealth Energy Management and Control System (CEMCS) Archibus
2600	Electronic Mail, Messaging and Collaboration	<ul style="list-style-type: none"> Messaging Application Programming Interface (MAPI) Simple Mail Transport Protocol (SMTP) Also see category for Recordkeeping – Electronic Mail. <p>Friday, June 14, 2024</p>	A02.030.361	Application Components > Unified Communications and	Software that supports the transmission of memos and messages over a network.	<ul style="list-style-type: none"> ReliefJet

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				Collaboration > Email		<ul style="list-style-type: none"> Microsoft FindTime MailJet Email API Integration for KYTC ITS Renewal Lyrus Listserv Pergenex Automate RPost - Outlook add-on for certified delivery Microsoft Outlook 2016 Archive Social Media Content Archival SaaS Microsoft Exchange Server Constant Contact Microsoft Teams Kahoot! 360 Pro for Teams Indigov's Constituent Management System CallPilot
2610	Fax Software	Client/server fax software fully integrated with Microsoft Exchange and Outlook client software.	A02.030.KY004	Application Components > Unified Communications and Collaboration > Fax Software	Software used for sending Fax from Outlook (Exchange) Email.	<ul style="list-style-type: none"> Cleo Stream Fax RightFax (OpenText) - for integration with Healthcare software eCopy (Nuance) Avaya Unified Messaging: CallPilot
2640	FTP and Secure FTP Server	Any FTP of classified data must be performed utilizing either ftps or sftp. This category only applies to Windows servers. See also the category for Data Classification.	A03.040.011	Interface > Application Interface > FTP	Standard network protocol used to transfer files from one host to another host over a TCP-based network, such as the Internet. File Transfer Protocol (FTP) is built on a client-server architecture and uses separate control and data connections between the client and server.	<ul style="list-style-type: none"> Progress MOVEit Transfer (DMZ) Progress WS_FTP (Ipswitch)
2650	FTP Client and Secure FTP Client Software	Any FTP of classified data must be performed utilizing either ftps or sftp. Software for use as Client only, Server use requires an Exception request. Clients need to be FIPS compliant for Secure FTP options. See also the category for Data Classification.	A03.040.011	Interface > Application Interface > FTP	Standard network protocol used to transfer files from one host to another host over a TCP-based network, such as the Internet. File Transfer Protocol (FTP) is built on a client-server architecture and uses separate control and data connections between the client and	<ul style="list-style-type: none"> FileZilla Progress WS_FTP (Ipswitch) PuTTY Axway Secure Client SecureCRT FireFTP

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2670	Bulk SMS Text Messaging	Software used for sending out Text Messages in bulk	A02.030.363	Application Components > Unified Communications and Collaboration > Instant Messaging	server. Software that supports text, voice and/or video communications between two or more users.	<ul style="list-style-type: none"> • Granicus SMS
2680	Emergency Notification Software	Software that enables designated individuals to send out emergency notification information to emergency responders, management and individuals across multiple devices / channels.	A01.003.016	System > Emergency Management > Emergency Notification	Software that enables designated individuals to communicate critical information to many individuals across multiple devices.	<ul style="list-style-type: none"> • Omnilert Emergency Notification and Management Platform • Rave Panic Button app • ESChat Enterprise Secure Chat / ESChat • Rave Alert Mass Notification System
2700	Publishing – Desktop		A02.028.KY002	Application Components > Productivity > Desktop Publishing	Software used for the creation of documents using page layout skills on a personal computer. Desktop publishing software can generate layouts and produce typographic quality text and images comparable to traditional typography and printing. This technology allows individuals, businesses, and other organizations to self-publish a wide range of printed matter (Ref:Wikipedia).	<ul style="list-style-type: none"> • Evermap Autosplit • Ricoh RSA Ready Print Pro • Adobe Creative Suite • Microsoft Publisher • Kofax (formerly Nuance) Power PDF
2705	HTML Authoring and Web Publishing	World Wide Web Consortium (W3C) standards (HTML 5.3 is an SGML application conforming to International Standard ISO 8879). Full support for HTML 5.3 features as defined by the Internet Engineering Task Force (IETF) and the World Wide Web Consortium (W3C). This is the recommended minimum standard, although HTML 5.3 is the preferred development standard for new applications. See also Application Development category.	A02.023.266	Application Components > Document and Content Management > Web Content Management	Software that provides content authoring, content review and approval, tagging and aggregation, content publishing and delivery, and syndication management.	<ul style="list-style-type: none"> • SharePoint Online • Adobe ColdFusion • Microsoft Expression - Only versions currently under mainstream support from Microsoft are authorized for new installation. • Adobe Creative Suite • Visual Studio Community • Prismic

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
2710	Advanced Drawing – Computer Aided Drafting	CAD/CADD software generally comes with component libraries, or has component libraries available from third party sources. These component representations must meet the standards applicable to the particular discipline (i.e., IEEE, etc.). In addition, AutoCAD has developed drawing file formats (DXF and DWG) that have become the de facto standards for CADD systems.	A02.031.383	Application Components > Visualization > Computer Aided Design (CAD)	Software that supports the use of computer technology for the process of design and design-documentation and includes software or environments which provide the user with input-tools for the purpose of streamlining design processes; drafting, documentation, and manufacturing processes.	<ul style="list-style-type: none"> AutoCAD (latest version released) AutoCAD LT Bentley Applications and E365 Licensing TurboCAD
2720	Advanced Drawing / Illustration / Diagramming		A02.028.330	Application Components > Productivity > Drawing	Software used to create or edit a graphical object.	<ul style="list-style-type: none"> Adobe Creative Suite Canva Apex Sketch Software SketchUp Pro Microsoft Visio for Diagramming Visual Paradigm CorelDraw
2730	Engineering Software	Software used for engineering tasks.	A02.028.KY003	Application Components > Productivity > Engineering Software	Software used for engineering design tasks.	<ul style="list-style-type: none"> Syngistix by PerkinElmer HydroCAD Hexagon GT StrDL StructurePoint spColumn GuideSIGN CivilGEO Engineering Software - GeoHECRAS Carlson Software for Land Development and Mining RF Engineering/Radiocompass LM Pictometry Imagery AutoTURN Pro Fluke Connect Bluebeam Revu Auterion Mission Control Motor Vehicle Emission Simulator (MOVES) MDX Software - Curved and Straight Steel Bridge Design and Rating CORMIX AERMOD Trimble Stratus /Propeller Drone Data Collection for Construction Intelight MaxView ATMS McTrans HCS

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
						<ul style="list-style-type: none"> Comprehensive Air Quality Model with Extensions (CAMx) ROAM Software (Remote Operations Asset Management) Retain Pro v10 - Retaining Wall Structural Design software ITS (Intelligent Transportation System) by SwRI PEEK Traffic Products (Viper, TOPS, PeekVision)
2735	Artificial Intelligence Software	Software that uses various Artificial Intelligence Technologies	A02.028.KY007	Application Components >Productivity > Artificial Intelligence Software	Software that uses various Artificial Intelligence Technologies	<ul style="list-style-type: none"> Ollama AI Model Testing
2740	Screen / Video Capture and Editing Software		A02.031.387	Application Components > Visualization > Graphics	Software that enables a person to manipulate static, animated or video visual images on a computer.	<ul style="list-style-type: none"> Blender Snagit Paint.NET Lectora Inspire Clipchamp Camtasia Studio DaVinci Resolve OBS (Open Broadcaster Software) Studio
2750	Multimedia Software		A02.031.390	Application Components > Visualization > Multimedia	Software to manage, develop and manipulate content from a combination of different content forms such as text, audio, still images, animation, video, or interactivity.	<ul style="list-style-type: none"> Honeywell Camera System and Software Wellsaid Sound Forge Audio Studio 15 / Magix Verint Video Solutions Mentimeter Nexigo Drivers EZPlayer Vivid-Pix powtoon.com Wave Sync Prezi Avigilon (camera)

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
						<ul style="list-style-type: none"> surveillance/recording system for building security) WavePad Sound Editor - For audio editing Silhouette Studio/Designer Edition Soundstripe Royalty Free Music Licensing VLC Media Player Telestream Wirecast Studio Adobe Creative Cloud Microsoft Windows Media Player GeoCodecReg Silhouette Software
2760	Biosciences Software		A02.028.KY005	Application Components > Productivity > Biosciences Software	Software used for biosciences and bioinformatics tasks.	<ul style="list-style-type: none"> Specimen Gate by PerkinElmer Wiley Registry Mass Spectral Library TView 7.0 PC interface software BioNumerics OZ Systems by PerkinElmer Qiagen GenoPro Microbial GX Pro
2770	Law and Justice Software	Software used in the Law and Justice line of business	A01.008.KY001	System > Legal > Law and Justice Information Management	Software used for information management in the Law and Justice business area	<ul style="list-style-type: none"> JAVS auto logging software Evidence (Tracking) Management System Callyo Surveillance HighQ - Thomson Reuters Axon View XL WatchGuard Video Player OpenFox Mobile Messenger ProLaw Motorola WatchGuard Evidence Library Westlaw Online Legal Research tip411 Pro LexisNexis 10-8 Systems (SaaS) Cellebrite Premium SAAS 35 Unlocks and Unlimited

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
						<ul style="list-style-type: none"> • Extraction • Motorola SmartControl Suite for Camera Docking Base, USB (WGA00640) • Justice Premier • NetBoss XT • MSAB XRY Logical and Physical • CertainPoint CMRS • Dragon Legal • Leica Geosystem Incidentent Mapping Suite • BriefCatch • Cellebrite
2780	Healthcare Software	Software for providing healthcare delivery and services	A02.028.KY006	Application Components > Productivity > Healthcare Software	Software used in the Healthcare line of business for delivery of services.	<ul style="list-style-type: none"> • Health Risk Screening Tool (HRST) • Verato • RALS Notebook and Software • Lighthouse Central Registry • PointClickCare PLUS • COBAS IT • SAMS (Social Assistance and Management System) • Tellus Netsmart • Remote configuration software for hearing aid programming, for brands - Oticon, Phonak, Cochlear, ReSound • Medical Group Management Association (MGMA) Physician Compensation and Production Survey Report • Panoramic Software PGPro
2790	Miscellaneous Productivity Tools and Utility software		A02.028.KY004	Application Components > Productivity > Miscellaneous Productivity Tools and Utility software	Software used for miscellaneous productivity and utility tasks.	<ul style="list-style-type: none"> • OuterSpacial • Tyler Technologies / CHAMP Electronic Titling System • QMATIC Queue Management System • FedEx Ship Manager Software • Panasonic Security Viewer

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
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- Buddy Punch SAS
- Timekeeping
- Dude Solutions- Worxhub
- FHWA Mobile Solution for Assessment and Reporting (MSAR)
- ProPresenter
- Thompson Reuters Drafting Assistant
- SoftPerfect RAM Disk for Windows
- FSReader
- 7EDIT for HL7 messages
- Qualtrics
- Satori Bulk Mailer Pro
- Homebase Scheduling SaaS
- Aurea Lyris
- Viking /VDE
- Purple VRS P3
- Data21 ZIP/390
- ExactFile
- PKWare SecureZip
- Averitt Shipping
- iTunes
- Lexmark Document Producer
- Genogram Analytics
- Otter
- Nessus
- Dynatrace
- SafetyDrone
- Retevis H777S Software
- RadarOmega Weather Rad Analysis
- HootSuite
- REV Transcription
- Dragon Professional
- ID Core 2.0 Credential ID Card Software
- Quite Imposing PDF Plugin for Adobe/ Quite Software
- ASAP Utilities - Excel add-in
- KPMG Compu-Max Medicare cost reporting software tools
- TheBrain
- Fusion Magnification and Screen Reading Software
- Venngage
- SuperGrate
- Beyond Compare 4
- MicrobeTrace
- DatuBIM

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
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- TurningPoint Polling Software
- WIN Learning
- Zoom Text Magnifier/Reader
- TreeSize
- Adobe Digital Editions
- Adobe Stock
- Medallia
- Precise Digital- Invidia Recording Software
- NextRequest
- LiBRARYSOFT
- DYMO Printer Driver
- Epi-Use Idea Manager for SAP
- Amyuni PDF Converter
- Evernote Note Taking Desktop and SaaS
- VelocityEHS
- CloudTables
- UPS WorldShip Shipping Software
- EDI Notepad v8
- Roxio Easy CD/DVD Burning
- Kurzweil 3000
- Signal Vine
- CleanMyMac X
- Faronics Insight
- ExamDiff
- Timeline Maker Pro
- Grammarly Premium
- WavPedal
- Mavis Beacon
- DiffEngineX
- Cision Communications Cloud
- OmniQ SeeControl
- eOMIS Offline
- WinZip
- Asure Resource Scheduler
- EAST Match QC / HunterLab
- EPI-USE Labs: PayRecon, Data Sync Mgr, Query Mgr, Variance Monitor
- Jabra Direct
- Hiperwall
- SurveyMonkey
- JAWS (Job Access With Speech)
- EF Viewer
- 7-Zip (Version 16.x or

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
						<ul style="list-style-type: none"> • above) • Ticketleap • WordQ • USERFUL ENTERPRISE SUBSCRIPTION PACKAGE • Hindenburg Narrator software • Zotero
2800	Geographic Information Systems (GIS) – Server Software	Compatible with the approved server operating systems.	A02.024.382	Application Components > Geospatial Information > Collection and Manipulation of Satellite and Aerial Photographs	Server-based software which supports the modification, analysis, and hosting of imagery information. Server-based software which supports the hosting and analysis of vector-based geospatial data resources.	<ul style="list-style-type: none"> • ArcGIS Server and ArcSDE and its ancillary modules for the Windows Server Environment • Trimble PIVOT Platform
2810	Geographic Information Systems (GIS) – Desktop Software	Compatible with approved desktop operating systems.	A02.024.380	Application Components > Geospatial Information > Cartography	Desktop software that supports the creation of maps, the editing of geospatial data, and the analysis of geospatial data. Software that supports the collection of information via satellite and aerial photography. Supports the application of statistical analysis and other informational techniques to geographically based data. Software which supports the modification or analysis of imagery information. Software that supports the collection or management of geospatial information.	<ul style="list-style-type: none"> • UgCS Mission Planning Software • Google Earth Pro • DNRGPS • ERDAS Imagine for processing images. • ArcGIS Pro • Avenza Map Pro • QGIS - Cross platform open source desktop GIS software • GlobalMapper 20 and the GlobalMapper LIDAR Module • DeedRunner • LP360 by GeoCue for LiDAR data. • Garmin Express • GeoSync GO Desktop • ArcGIS Desktop and its ancillary modules (from ESRI). Metadata authoring is carried out using the ArcCatalog module within ArcGIS Desktop. • Pix4D • ESRI ancillary tools: FieldMaps, Survey123, QuickCapture, Collector, and Workforce

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
2850	Imaging Solution	OCR software offered by vendors on price contract.	A02.023.260	Application Components > Document and Content Management > Document Imaging and OCR	Software that supports the document scanning and the interpretation of images into text.	<ul style="list-style-type: none"> Kodak CAPTURE PRO SOFTWARE OmniPage for standalone OCR. OnBase by Hyland Software. Azure cognitive services Form Recognizer OCR software supplied with approved multifunction products is permitted.
2860	Imaging Solution – Workflow Software	Workflow software offered by vendors on price contract.	A02.023.260	Application Components > Document and Content Management > Document Imaging and OCR	Software that supports the document scanning and the interpretation of images into text.	<ul style="list-style-type: none"> Box Relay by Box OnBase by Hyland
2870	Imaging Solution	Imaging control software offered by vendors on price contract.	A02.023.260	Application Components > Document and Content Management > Document Imaging and OCR	Software that supports the document scanning and the interpretation of images into text.	<ul style="list-style-type: none"> ABBYY FineReader Visioneer OneTouch OnBase by Hyland Software Caldera RIP V14.1 KnowledgeLake
2910	Content Management Software	Enterprise content management (ECM) solution that provides document/content organization and management (import, route, archive), business process management (automation, reporting, auditing), and records management. Product to provide web-based, mobile device and thick client access.	A02.023.262	Application Components > Document and Content Management > Document Management System	Software used to track, store and retrieve electronic documents and/or images of paper documents. It is usually capable of keeping track of the different versions created by different users (history tracking).	<ul style="list-style-type: none"> Laserfiche BITLY URL Shortening OnBase by Hyland Software Simpleview Digital Asset Management TrackIt Visme
2920	Web Content Management Software	<ul style="list-style-type: none"> Web Content Accessibility Guidelines (WCAGs) - Priority 1 and Priority 2 published by the World Wide Web Consortium (W3C) Hypertext Markup Language - HTML 4.01 Extensible Hypertext Markup Language - XHTML 1.0 Cascading Style Sheet - CSS Levels 1 and 2 Document Object Model - DOM Level 1 Synchronized Multimedia Integration Language - SMIL 2.0 JavaScript and Dynamic HTML – DHTML Simple Object Access Protocol (SOAP) Also, see standard category for Internet/WWW Design and Publishing. 	A02.023.266	Application Components > Document and Content Management > Web Content Management	Software that provides content authoring, content review and approval, tagging and aggregation, content publishing and delivery, and syndication management.	<ul style="list-style-type: none"> reCAPTCHA Sharegate SharePoint Online Meltwater Media Monitoring

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
2930	E-Learning Software	E-learning software capable of producing rich e-learning content, able to access and integrate content from a diverse range of sources used in commonwealth e-learning applications, capable of supporting student and instructor collaboration, and capable of efficiently delivering content across the Internet.	A01.007.042	System > Human Resource Management > Education / Training	Software that supports the design, development, and implementation of a comprehensive employee development and training approach to ensure that agency employees have the right competencies.	<ul style="list-style-type: none"> • Adobe Presenter • TestOut (online labs) • SumTotal Learn for corporate and academic e-learning requirements (eLMS). • Vyond Professional • Pluralsight Technology Training Platform • Pearson Vue VTS • Blackboard Academic Suite from Blackboard, Inc. for academic and corporate e-learning requirements (which includes Elluminate). • WIN Career Readiness System • PassAssured Pharmacy Tech Software • Articulate 360
2940	Help Desk Software	Must support IT Service Management and ITIL processes and provide compatibility with a wide range of products used in supporting IT infrastructure.	A01.002.010	System > Customer Service > Call Center / Help Desk	Software that supports the management of a service center to respond to government and contract employees' technical and administrative questions.	<ul style="list-style-type: none"> • ServiceNow
2950	Server Virtualization Software		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"> • Microsoft Virtual Server (supported versions) R2 SP1 - Wintel • Microsoft Windows Server (supported versions) • VMware from EMC Corp. • Microsoft Windows Server (supported versions) R2 Virtualization with Hyper-V • Microsoft Windows Server (supported versions) R2
2960	Business Rules Management Software		A02.027.312	Application Components > Process Automation and Management > Business Rule Management	Software used to define, deploy, execute, monitor and maintain the variety and complexity of decision logic that is used by operational systems within an organization or	<ul style="list-style-type: none"> • TIBCO iProcess (Staffware) • Corticon Business Rules Server

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
					enterprise. This logic, also referred to as business rules, includes policies, requirements, and conditional statements that are used to determine the tactical actions that take place in applications and systems.	<ul style="list-style-type: none"> Corticon Business Rules Studio
2970	Case Management Software	Software that manages the life cycle of a particular claim or investigation within an organization to include creating, routing, tracing, assignment and closing of a case as well as collaboration among case handlers.	A02.027.313	Application Components > Process Automation and Management > Case Management	Software that manages the life cycle of a particular claim or investigation within an organization to include creating, routing, tracing, assignment and closing of a case as well as collaboration among case handlers.	<ul style="list-style-type: none"> Column Case Management Orbis YASI, Case Works
2980	Workflow Software		A02.027.KY001	Application Components > Process Automation and Management > Workflow Management	Software used to manage workflows.	<ul style="list-style-type: none"> Power Automate Nintex K2 Blackpearl
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.	<ul style="list-style-type: none"> Category 6, unshielded twisted pair (UTP) copper cable - Systemax products with Corning fiber 8.3/125 Single mode fiber cable - Systemax products with Corning fiber 50/125 Multimode fiber optic cable - Systemax products with Corning fiber
3110	Cable Plant Installation	Cable plant installation based on current industry standards. The following are applicable: • TIA/EIA-568-B.1-7 Commercial Building Telecommunications Wiring Standard and its appendix and all addendums • TIA/EIA-568-B.2-11 Commercial Building Telecommunications Wiring Standard and its appendix and all addendums • TIA/EIA-569-B Commercial Building Standard for Telecommunications Pathways and Spaces • TIA/EIA-570-B Residential and Light Commercial Telecommunications Wiring Standard • TIA/EIA-606 Administrative Standard for the Telecommunications Infrastructure of Commercial Building • J-STD-607-A Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications • TIA/EIA-758-A Customer Owned Outside Plant Telecommunications Infrastructure Standard • TIA/EIA-526-7 Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant • TIA/EIA-526-14-A Optical Power Loss Measurements of Install Multimode fiber Cable Plant • TIA/EIA-568-3-3.1 Optical Fiber Cabling Components Standard • TIA/EIA-598-C Optical fiber Cable Color Code • TIA-758-A Customer Owned Outside Plant Friday, June 14, 2024	I02.003.302	Network > Infrastructure > Transmission Medium	Transmission medium is the material and/or technology that carries signal from one location to another.	

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
		Telecommunications Infrastructure • National Electric Code • National Electric Safety Code • ASTM E814 Fire Stopping • ISO/IEC 11801: 2002/AMD 1 • TSB 162 Telecommunications Cabling Guidelines for Wireless Access Points • TIA-942 Telecommunications Infrastructure Standard for Data Centers • IEEE 802.3 Ethernet • IEEE 802.11 b/g/n WLAN • IEEE 802.16 WiMax • TIA-1003 Requirements for a Wireless LAN Based IP Telephony Endpoint				
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	I02.004.409	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.	<ul style="list-style-type: none"> • Rebox
3300	Network Hardware Components: Routers, Hubs, Remote Access, CSU/DSU, NICS, Modems	<ul style="list-style-type: none"> • SNMP compliant • Modems: 56 Kbps v.92, International Telecommunications Union (ITU) data transmission standard • Ethernet NIC cards at 100Mbps/1Gps/10Gps • Wireless LAN installations must adhere to Enterprise IT Policy CIO-078 (Wireless LAN Policy). 	I02.003.301	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.	<ul style="list-style-type: none"> • Extreme Networks Wireless Data Networks • F5 Networks • Extreme Networks Wireless Data Networking • Fortinet Networks • NetMotion - Virtual Private Networks • Extreme Networks Virtual Private Networks
3440	Video Conferencing	ITU-T Standards supported: • H.320, H.323, G.711, G.722, G.728, H.221, H.261, H.263, H.264, H.239, H.460, 18 and 19 Video Standards and Protocols, Algorithms and resolutions (pixels x lines): • ITU-T H.261 • QCIF • 4SIF • SVGA • UXGA • ITU-T H.263++ • SIF • FCIF • SXGA • 720p • ITU-T H.264 • CIF • VGA • WXGA/+ • 1080p • Frame rate: 5-30 frames per second Audio Resolution: • G.711, G.722, G.722.1, 64 bit and 128 bit MPEG4 AAC-LD, AAC-LD Stereo Monitor Outputs: • S-Video, Composite, HD15, HDMI, DVI-I, Component Camera Inputs: • S-Video, Composite, HD15, HDMI, DVI-I, Component • Video format: NTSC Broadcast Standards: • NTSC Audio Conferencing: • Omnidirectional pickup: push-to-talk (cardoid/super-cardoid) or omnidirectional, automatic microphone level adjustment; full duplex audio, full duplex, adaptive acoustic echo canceling Communications Protocols: • ITU-T H.221 Interfaces: • 10/100/1000 Full Duplex Ethernet Transmission Rates: • 384 Kbps	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.	<ul style="list-style-type: none"> • Cisco TelePresence DX80 23" monitor desktop BFCP dual stream WIFI Android OS- 1080p cam Touch screen interface • Cisco SX10 economy unit with 5x camera • Cisco SX20 1080p with 3 camera options • Cisco SX80 1080P@60 fps 4x or 20x camera. Avail w/ speaker tracking dual cameras and 10" touch screen control • Polycom HDX7000 with 12x Camera • Cisco DX70 14" monitor desktop BFCP dual stream WIFI Android OS w/ 8mp cam Touch screen interface • Polycom RealPresence Group system 300/500 Small

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
						Room system
3460	Web Video / Audio Conferencing / Collaboration		102.004.404	Network > Transmission Type > Web Conferencing	Conferencing is a service that allows events to be shared with remote locations via the Web and Video. 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. Video Conferencing (also known as a video conference or video teleconference) is conducted by a set of telecommunication technologies which allow two or more locations to communicate by simultaneous two-way video and audio transmissions. While video conferencing refers to remote meetings with a limited number of participants, web conferencing typically refers to real-time communication; a host (or a few hosts) addresses many people in a virtual forum.	<ul style="list-style-type: none"> BlueJeans Video Conferencing Cisco TelePresence (formerly Tandberg) Microsoft Teams iLinc Adobe Connect Zoom Webex Elluminate Dolby Conference Phone Vsee HIPAA Compliant Messenger for Healthcare business domain Citrix (GoToMeeting, GoToWebinar, GoToTraining)
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.	<ul style="list-style-type: none"> All approved web browser products that support SSL encryption
3510	Network Services – Internet/ Intranet Web Server	World Wide Web Consortium (W3C) standards	101.002.202	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	<ul style="list-style-type: none"> Microsoft URL Rewrite IIS extension WebSphere Web Server (both z/OS and UNIX) Microsoft Internet Information Server (version 7 or later) Apache HTTP Server

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
					client/server computing model.	<ul style="list-style-type: none"> Apache Tomcat
3511	Network – Internet/ Intranet	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"> Mozilla Firefox Microsoft EDGE Google Chrome Respondu LockDown Browser
3520	Network Services – Mainframe Access	Minimum Transport Layer Security (TLS) 1.2 is required	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).	
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"> Pure Storage Array Dell/EMC VxBlock Netapp Pure Storage Array IBM
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.	<ul style="list-style-type: none"> Nagios Extreme Site Engine Microsoft System Center Operations Manager (SCOM) Angry IP Scanner Cacti

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
3650	Content Delivery Network	Support forward and reverse proxy of the following IP protocols: • HTTP • FTP over HTTP • FTP over TCP • FTPS (for mainframe file transfer) • HTTPS (secure transport) • NNTP • MMS • TSPard • ICAP 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"> • Network Appliance • 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.
4025	Extensible Markup Language	Extensible Markup Language (XML) is an open standard for describing data from the World Wide Web Consortium (W3C) – a meta-language. XML is a simplified version of Standard Generalized Markup Language (SGML). It is used for defining data elements on a Web page and business-to-business documents. It uses a similar tag structure as HTML; however, whereas HTML defines how elements are displayed, XML defines what those elements contain. HTML uses predefined tags, but XML allows tags to be defined by the developer. There are four principle components that enable XML applications to process an XML document: the XML Document, Document Type Definitions (DTD) or Schemas, Processors and Parsers, and Style Sheets. XML provides a mechanism to label sets of data that can be shared between other systems. The importance of this feature is realized when sharing data between two systems that are operating with different software XML offers state agencies many potential benefits: provide for self-described transactions; enhance workflow and document management functions; interface with legacy systems; reiterate the use of object-based documents and support the implementation of e-government initiatives that must pass data. Approved Standard(s): - XML version 1.0 standard from the World Wide Web Consortium (W3C) - Legal XML standard	A03.040.014	Interface > Application Interface > XML	Extensible Markup Language (XML) defines a set of rules for encoding documents in a format that is both human-readable and machine-readable. It is defined in the XML 1.0 Specification produced by the World Wide Web Consortium (W3C), and several other related specifications, all gratis open standards.	<ul style="list-style-type: none"> • Altova XML Spy
4030	Geographical Information Systems – Shapefile	The ESRI Shapefile is a popular geospatial vector data format for geographic information systems software. An ESRI shapefile consists of a main file, an index file, and a dBASE table. The main file is a direct access, variable-record-length file in which each record describes a shape with a list of its vertices. In the index file, each record contains the offset of the corresponding main file record from the beginning of the main file. The dBASE table contains feature attributes with one record per feature. The one-to-one relationship between geometry and attributes is based on record number. Attribute records in the dBASE file must be in the same order as records in the main file. Software that supports the creation of map and geospatial analysis.	A02.024.380	Application Components > Geospatial Information > Cartography	Software that supports the creation of maps.	<ul style="list-style-type: none"> • The ArcGIS suite of products which includes Desktop GIS, Server GIS and Mobile GIS and Online GIS components.
4035	Geographical Information Systems – Geodatabases	The geodatabase is a data storage format that is utilized within the ArcGIS suite of software. There are two primary types of geodatabases: file-based and multi-user (enterprise). A file-based geodatabase is stored as binary in a GDB directory structure and can be created using any of the ArcGIS products. A multi-user geodatabase is stored in a more powerful relational database management system (RDBMS) SQL Server or Oracle and must be interfaced with ArcSDE software. Data from a multi-user geodatabase can be read using any of the ArcGIS products, but can only be edited using advanced licensing.	A02.024.380	Application Components > Geospatial Information > Cartography	Software that supports the creation of map and geospatial analysis	<ul style="list-style-type: none"> • ArcSDE • ArcGIS Enterprise, ArcGIS Desktop and ArcGIS Pro software

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
4050	Recordkeeping	<p>A public record is recorded information made or received in conjunction with official agency business that is kept as evidence of the organization, functions, policies, decisions, procedures, operations, or other activities of the government. Statutory definition: "Public record or record" means all books, papers, maps, photographs, cards, tapes, disks, diskettes, recordings, and other documentary materials, regardless of physical form or characteristics, which are prepared, owned, used, in the possession of or retained by a public agency. (KRS 171.410, PDF) Approved Standard(s): • Department of Defense (DoD) standard 5015.2 defines baseline records management requirements for electronic systems, based on operational, legislative and legal needs of Federal agencies. This standard has been endorsed by the National Archives and Records Administration. • Records schedules approved by the State Archives and Records Commission reflect known operational, legal, audit, and historical recordkeeping requirements. Agencies must maintain up-to-date and accurate schedules and create and manage records within their framework, in order to fulfill this standard. • Kentucky IT Standards for Electronic Documents – Final Version for Distribution and High Volume Scanners – Digital Imaging specify use of PDF and CCITT III and IV file formats, for non-alterable electronic documents and image files respectively. Other recommended or de facto standard file formats are described in the Kentucky Department for Libraries and Archives' online publication, Electronic Records Management Guidelines - File Formats</p>	B10.804.345	General Government > General property and records management > Management of Government Records	Management of Government Records involves the management and stewardship of a type of information by the government in order to facilitate communication and information archival. This classification and taxonomic processes that links logical data and information sets.	<ul style="list-style-type: none"> • Products must be listed in DoD 5015.2 plus the supporting technology also must be listed within the Kentucky Information Technology Standards or a KITS Exception is required.
4055	Preservation of Long-term Records	<p>The Preservation of Long-term Records Table represents the digital formats that KDLA has recognized and is encouraging agencies to use when transferring records to the archives. These formats may also be used by agencies when maintaining records with long-term retention (retention period of more than 20 years) in-house. The formats, and corresponding confidence levels, represent KDLA's preferences for long-term preservation. Agencies are free to use other formats (including those not listed) for active business use as long as they meet with state approved standards and architecture. However, systems employed by agencies should support these formats or be able to export records to these formats. The risk level levels identified in the table below are ranked from low (most conducive for long-term preservation) to high (least conducive for long-term preservation.) The risk levels are determined by a combination of sustainability factors including: 1. Documentation. Degree to which complete specifications and tools for validating technical integrity exist and are accessible to those creating and sustaining digital content. Non-proprietary, open standards are usually more fully documented and more likely to be supported by tools for validation than proprietary formats. However, what is most significant for this sustainability factor is not approval by a recognized standards body, but the existence of complete documentation, preferably subject to external expert evaluation. 2. Adoption. Degree to which the format is already used by the primary creators, disseminators, or users of information resources. This includes use as a master format, for delivery to end users, and as a means of interchange between systems. If a format is widely adopted, it is less likely to become obsolete rapidly, and tools for migration and emulation are more likely to emerge. 3. Compression. Many digital formats used for disseminating content employ compression. However, for practical reasons, some digital audio, images, and video may never be stored in an uncompressed form, even when created. Content should be compressed using publicly disclosed and widely adopted algorithms that are either lossless or have a degree of loss compression that is acceptable to the creator, publisher, or primary user as a master version. 4. External Dependencies. Degree to which a particular format depends on particular hardware, operating system, or software for rendering or use and the predicted complexity of dealing with those dependencies in future technical environments. 5. Technical Protection Mechanisms. To preserve digital content and provide service to users and designated communities decades hence, KDLA must be able to replicate the content on new media, migrate and normalize it in the face of changing technology, and disseminate it to users at a resolution consistent with network bandwidth constraints. Content for which KDLA takes long-term responsibility must not be protected by technical mechanisms such as encryption, implemented in ways that prevent custodians from taking appropriate steps to preserve the digital content and make it accessible to future generations. These controls may be necessary for business reasons while the data is in active use in the agency but should be removed upon transfer to the archive. The low and medium risk levels represent the formats that KDLA feels are the most sustainable over time. Agencies should avoid using formats listed in high risk column, or make sure that the records in question can be converted to the</p> <p>Friday, June 14, 2024</p>	B10.804.345	General Government > General property and records management > Management of Government Records	Management of Government Records involves the management and stewardship of a type of information by the government in order to facilitate communication and information archival. This classification and taxonomic processes that links logical data and information sets.	

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formats in the Medium and/or Low risk columns. View the Preservation of Long-term Records Table.						
4060	Recordkeeping – Electronic Mail	<p>Electronic mail (email) messages are any communication supported by email systems for the conduct of official agency business internally, between other state, local, and federal agencies, and with constituents, voters, vendors, clients, citizens, and others. This definition applies equally to the contents of the communication, the transactional information associated with each message, and any attachments to the body of the message. The email environment in Kentucky state government has a current transaction volume that exceeds eighty million messages a month. This figure dramatically illustrates the extent of agency use and reliance on email services to conduct state business. Two existing Enterprise policies, (1) Status of Electronic Mail as a Public Record, and (2) Internet and Electronic Mail Acceptable Use Policy, CIO-060, have emphasized that electronic mail is statutorily defined as a public record and set broad parameters for the management and acceptable use of email in the executive branch of state government. This standard clarifies agency responsibilities. Approved Standard(s): • KRS sections 061.870 (Open Records) and 171.410 (State Archives and Records) define “public record” to mean all books, papers, maps, photographs, cards, tapes, disks, diskettes, records, and other documentation / documentary materials, regardless of physical form or characteristics, which are prepared, owned, used, in the possession of, or retained by a public agency. Being public record under these terms, electronic mail must be managed to provide appropriate, reliable, and cost-effective evidence of the business activities it supports, relates to, or documents. Its integrity, completeness, retrievability, public accessibility, and retention all should respond to agency or Enterprise business requirements. • Agencies establish recordkeeping rules* that are appropriate to the business functions they normally perform. These rules reflect best recordkeeping practices associated with the specific business processes agencies are engaged in, as well as any explicit legal, audit, or archival requirements that have been established. Agencies must apply these recordkeeping rules to the administration of electronic mail as it relates to the same business functions. *The Kentucky Department for Libraries and Archives and the State Archives and Records Commission have statutory authority to establish records management requirements for public agencies of the Commonwealth, and agency recordkeeping practice should conform to standards, schedules, or guidelines developed by them. The following general requirements must be met by agencies in managing email: • The integrity, reliability, and authenticity of email messages must be protected through compliance with all security and data management requirements established in the Enterprise Architecture and Standards. • Per the acceptable use policy referenced above, agencies must instruct employees and take steps to ensure that non-business related email messages are regularly deleted from email stores (inboxes and personal folders). Transitory messages, which are defined as messages that are for informational and reference purposes only and do not set policy, establish guidelines or procedures, certify a transaction, or become a receipt, must also be routinely disposed of. • Retention periods for email messages vary according to the functions they are associated with. It is the responsibility of the agency to codify retention practices through development of records schedules in cooperation with the Kentucky Department for Libraries and Archives. Retention requirements cannot be met through routine agency backups, and agency staff must be made fully aware of this and the appropriate schedules that must be created and adhered to. • EAS Appendix G, Guidelines for Managing E-Mail in Kentucky State Government, promulgated by the Department for Libraries and Archives, provides agencies with further gui</p>	B10.804.345	General Government > General property and records management > Management of Government Records	Management of Government Records involves the management and stewardship of a type of information by the government in order to facilitate communication and information archival. This classification and taxonomic processes that links logical data and information sets.	<ul style="list-style-type: none"> • See standard for Electronic Mail, Messaging and Collaboration
4065	Data Governance – Data Stewardship	<p>The fundamental building block of Information Technology Architecture and Standards is data. Data is a critical asset and must be managed as such. To assure that maximum benefit is derived from the sharing, integration and utilization of data for both program level tactical applications and multiagency strategic predictive planning, decisions regarding data must be made at the enterprise level in consultation with the Chief Data Officer and the Chief Information Officer. Approved Standard(s): Executive branch agencies are responsible for assigning data stewardship responsibilities to designated staff, to facilitate the proper management of data as a strategic resource for the enterprise in accordance with state and Federal laws.</p>	B10.811.KY001	General Government > Information sharing > Data Governance	Refers to the overall management of the availability, usability, integrity, and security of the data employed in an enterprise.	<ul style="list-style-type: none"> • IBM InfoSphere Information Governance Catalog • IBM Watson Knowledge Catalog • IBM Glossary Anywhere

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4070	Common Data Definitions	A core set of common data definitions, formats, type, and size and code values for enterprise data elements. A unique identifier for both individuals and organizations that associates data to a single entity is a critical element of the data definition. Approved Standard(s): • The Enterprise Common Data Definitions related to individual and organizational identity only, are fully described in the documentation on the Enterprise Common Data Model Framework.	B10.811.604	General Government > Information sharing > Meta Data Management	Support the maintenance and administration of data that describes data.	<ul style="list-style-type: none"> erwin by Quest IBM Glossary Anywhere IBM InfoSphere Information Governance Catalog IBM InfoSphere Data Architect
4080	Data Classification Standard	<p>This standard establishes the criteria for classifying data and information into three categories: Open, Internal and Confidential. This classification matrix does not supersede the Open Records Act requirements of State Government (KRS 61.870 to 61.884). Classification is important because it determines the level of security to be applied to the data, any application that processes the data, and the environment which houses/stores the data. Internal and Confidential data require more stringent security while Open data requires very little security (only controls over the integrity and availability of the data may be necessary). All Commonwealth data must be appropriately reviewed to determine its classification. This classification will be used for, but is not limited to, determining limitations on the use, protection and storage of the data. If data is interdependent with other data that is classified with a higher level of sensitivity, the classification that requires the most stringent controls should be used. Details of the enterprise data classification levels can be found at</p> <p>"https://technology.ky.gov/policy/Documents/ENT%20Documents/ENT-101%20Enterprise%20Data%20Classification%20Standard.pdf". Details of the enterprise data classification process can be found at</p> <p>"https://technology.ky.gov/policy/Documents/ENT%20Documents/ENT-102%20Enterprise%20Data%20Classification%20Process.pdf".</p>	S01.001.001	Purpose > Regulatory Conditions > Executive Branch Directives	Executive Orders, Memoranda, security directives regarding classification and protection of federal information or other security goals. See FIPS 200, NIST SP 800-53, NIST SP 800-53A, NIST SP 800-37, and CNSSI-4009.	<ul style="list-style-type: none"> none
4090	Data Integration	<p>Data integration is the process of combining data residing at different sources to provide a unified view of these data. Data integration can be classified in four different types of integration based on the characteristics of the data movement. • Enterprise Application Integration (EAI) – Usually associated with use between two existing systems where at least one is a transaction processing system. Characteristics of EAI: Transaction based data ; Data is usually structured (file layouts) ; Messaging transport is used (MSMQ, MQ, File, etc) ; Low transformation of the data ; Translation of data is usually performed ; Usually associated with Process Integration ; Commonly event driven and/or real time processing. Common architectures: Web Services (Point to Point)/Service Interface (IMS/CICS) ; IBM MQ/MSMQ ; ESB (IBM Message Broker, MS BizTalk) ; Remote Procedure Call (RPC) • Extract-Transform-Load (ETL) – Used to communicate between two or more systems where the systems can be a transaction processing system, management information system or decision support system. Characteristics of ETL: Record based data ; Usually derived data ; High volume ; Movement of data from store to store ; Structured or Semi-structured data ; Usually associated with Process Integration ; Batch based (right time) Common architectures: ETL Tools (SAS, IBM DataStage/QualityStage) ; Custom extract programs (batch) ; Ad-Hoc query tools Microsoft Excel, etc) • Data Replication – Used to copy data from one data store to another for duplication of data from one system to another. Characteristics of Data Replication: Data store to data store copy ; Structured data ; Low transformation of the data ; Used when high availability is necessary ; Usually associated with Analytical Systems Common architectures: Database vendor tools (IBM ReplicationServer) ; Compuware File-Aid (IMS, DB2, etc) ; Third party database tools • Federation – Used to facilitate access to data while leaving the data in place within the source system. Characteristics of Federation: Query based ; Usually multiple data sources ; Structured/Semi-structured data ; Moderate transformation ; Wrappers are utilized to provide consistency of data ; Real time – need the most current data ; Usually associated with Analytical Systems ; Medium to high volume.</p>	B10.811.601	General Government > Information sharing > Data Exchange	Supports the interchange of information between multiple systems and applications; includes verification that transmitted data was received unaltered.	<ul style="list-style-type: none"> IBM InfoSphere QualityStage Address Verification Interface for U.S. Address Certification IBM InfoSphere Information Services Director CoreLogic (Approved for DOR-PVA use) AAMVA Information Services DBAmp CONNX Software AG Altova MapForce BizTalkd 360 IBM InfoSphere FastTrack MuleSoft USPS Zip+4 National EPF IBM InfoSphere QualityStage IBM InfoSphere DataStage

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4100	Middleware		A02.026.300	Application Components > Middleware > Enterprise Service Bus	Software used for designing and implementing the interaction and communication between mutually interacting software applications in Service Oriented Architecture (SOA).	<ul style="list-style-type: none"> • Broker/IIB • WebSphere Application Server for z/OS • BizTalk 2010 • MQ • Data Power • AppFabric • Orion Health™ Rhapsody® Integration Engine - For Healthcare IT system integration • Mulesoft
4350	Electronic Commerce – Electronic Data Interchange (EDI)	Electronic data interchange (EDI) is the secure electronic communication of business transactions, such as purchase orders, confirmations, invoices, and other data between organizations. EDI may be used to submit data to a state agency in a standard, prescribed format, with translation software required to complete the communication. Value added networks (VANs) act as third parties to provide EDI services that enable organizations with different equipment to connect. The EDI format chosen must provide proper security controls to protect the Confidentiality and integrity of the data during transmission. The two approved standards are: ANSI ASC X12 UN/EDIFACT The ANSI ASC X12 EDI standard defines the data structure and content for business transactions transmitted between computer applications. The United Nations Rules for Electronic Data Interchange For Administration, Commerce and Transport (UN/EDIFACT) is a set of internationally agreed upon standards, directories and guidelines for the electronic interchange of structured data that relate, in particular, to trade in goods and services.	B10.811.601	General Government > Information sharing > Data Exchange	Supports the interchange of information between multiple systems and applications; includes verification that transmitted data was received unaltered.	
5010	Intrusion Detection and Prevention	Products must support approved Enterprise standards in the following categories: • Operating systems—specific Unix operating systems (OSs), MS Windows, Linux • Network topologies—Ethernet, T1/E1 • Switched networks • Protocols—TCP/IP, UDP • Applications—FTP, HTTP, Telnet • Firewalls All tools within this category have the ability to appear to network defense mechanisms as reconnaissance or attack activity. To ensure that the scanning activities are effective, able to complete uninterrupted, and do not raise unnecessary alarm all provisions in CIO-082 Critical Systems Vulnerability Assessments must apply.	A01.011.073	System > Security Management > Intrusion Detection	Hardware or software products that gather and analyze information from various areas within a computer or a network to identify possible security breaches, which include both intrusions (attacks from outside the organizations) and misuse (attacks from within the organizations.)	<ul style="list-style-type: none"> • Dell Secureworks Network Monitoring Service • AC Hunter • Retina Network Security Scanner • Nmap, Zenmap ver 7.8 • Encase Forensics Version 7.10.00 and 6.19 • Symantec DeepSight • GrayShift GrayKey • ERAD-Recovery • Cyber Triage • Trustwave • Encase Enterprise\edDiscovery Version 5.10.05 • Wireshark Ver 3.2.1 • Symantec Complete Endpoint Defense (with

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						<ul style="list-style-type: none"> SEP) • RealSecure Site Protector • Net Analysis Version 1.5 • RealSecure Server Sensor • AttackIQ • IBM ISS Proventia • WinPing 1.6.4104 • Suricata • Trend Tipping Point Intrusion Detection System • BURP by portswigger (PEN testing) • Symantec Security Monitoring Services - Internet Security Systems Product • Snort-SourceFire • Oracle VM Virtual Box 5.0.4 • HP TippingPoint
5050	Event and Log Management		A01.011.070	System > Security Management > Audit Trail and Capture	Software that supports the set of capabilities to support the identification and monitoring of activities within an application, system, or network.	<ul style="list-style-type: none"> • IBM Qradar • EXABEAM SIEM • ElasticSearch
5100	Encryption	<p>IETF X.509 Public Key Infrastructure (PKI latest version for digital certificates) The purpose of this standard is to provide Commonwealth of Kentucky agencies guidance on the use of encryption to protect Commonwealth information resources that contain, process, or transmit data classified as sensitive or confidential. This standard applies to encryption controls for data that is at rest (including portable devices and removable media) and data in motion (transmission security). This standard is compatible with, but does not supersede, federal encryption standards. Agencies should refer to the data classifications defined in Enterprise Standard 4080 – Data Classification. Once the data has been classified, the agency must determine the proper encryption implementation(s) to achieve the desired level of protection. Encryption Strength - Based on the data classification described above, Commonwealth of Kentucky agencies will use Federal Information Processing Standard (FIPS) 140-2 approved algorithms as outlined in National Institute of Standards and Technology (NIST) 800-57, part 3, Revision 1 for encrypting sensitive and confidential data. Wireless Technologies (including Bluetooth)- COT recommends that organizations with existing legacy IEEE 802.11 implementations develop and implement migration strategies to move to IEEE 802.11i-based security because of its superior security capabilities. IEEE 802.11i addresses the security flaws in the original IEEE 802.11 standard with built-in features providing robust wireless communications security, including support for FIPS 140-2 validated cryptographic algorithms. In addition, it is necessary to employ higher level cryptographic protocols and applications such as Secure Shell (SSH), Transport Layer Security (TLS) or Internet Protocol Security (IPSec) with FIPS 140-2 validated cryptographic modules and associate algorithms to protect sensitive or confidential data in transit. Encryption Key Management Standard - Proper key management is necessary for ensuring that encrypted data is secure and accessible when needed. Procedures should be created, or automated mechanisms utilized, for the management of</p> <p>Friday, June 14, 2024</p>	A02.029.342	Application Components > Security Controls > Encryption	Software to convert plaintext to ciphertext through the use of a cryptographic algorithm.	<ul style="list-style-type: none"> • Microsoft PKI Solution • SSL/TLS • Office 365 Message Encryption - for encrypting email messages

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		encryption keys that encompasses the following phases of the Encryption Key Management Life Cycle: • Key creation • Key backup • Key deployment • Key Rotation • Emergency and routine revocation of keying material • Auditing of keying materials and related records • Key recovery • Destruction of revoked or expired keys				
5110	Endpoint Storage Device Encryption	Encryption is required by CIO-092 for any portable storage device when it will contain data defined as Sensitive or above according to the Kentucky Data Classification Matrix.	A02.029.342	Application Components > Security Controls > Encryption	Software to convert plaintext to ciphertext through the use of a cryptographic algorithm.	<ul style="list-style-type: none"> • Symantec Complete Endpoint Defense (with SEP) • Bitlocker for Microsoft Surface Pro
5120	Encrypted Flash Drive	An encrypted flash drive is required by CIO-092 when it will contain data defined as sensitive or confidential according to the Kentucky Data Classification Matrix. The encryption will use Federal Information Processing Standard (FIPS) 140-2 approved algorithms as outlined in National Institute of Standards and Technology (NIST) 800-57, part 3, Revision 1 for encrypting sensitive and confidential data.	I01.001.107	Platform > Hardware > Removable Storage Media	Removable storage media is any type of storage device that can be removed from a computer while the system is running.	<ul style="list-style-type: none"> • Any product that utilizes (FIPS) 140-2 approved algorithms as outlined in National Institute of Standards and Technology (NIST) 800-57, part 3, Revision 1 for encrypting sensitive and confidential data.
5400	Authentication and Authorization		A02.029.340	Application Components > Security Controls > Authentication and Authorization	Software that supports obtaining information about parties attempting to log on to a system or application for security purposes and the validation of those users.	<ul style="list-style-type: none"> • Symantec VIP Access - For generating Soft tokens • Palo Alto Global Protect VPN • ID.me • Broadcom Symantec Privileged Access Management • Okta • One Identity Safeguard
5505	Sanitization and Disposal of Information Technology Equipment and Electronic Media	The recognized authority for Sanitization and Disposal standards are the National Institute of Standards and Technology referenced in their documents: • NIST SP 800-53 v. 4: Media Protection • NIST SP 800-88 v. 1: Guidelines for Media Sanitization • NIST SP 800-36: Guide to Selecting Information Technology Security Products, Section 5.9 And U.S. Department of Defense Standard: DoD 5220.22-M: National Industrial Security Program Operating Manual (NISPOM) Archiving Records: Any IT devices (servers, storage, clients), network components, operating system or application software, or storage media containing public records as defined by KRS 61.870(2) and 171.410 shall have the final disposition of those records established with the Kentucky Department for Libraries and Archives prior to disposal through the Division of Surplus Property (Finance) or transfer to other agencies for re-use. Friday, June 14, 2024	S03.002.002	Controls > Control Categories > Operational	The security controls (i.e., safeguards or countermeasures) for an information system that are primarily implemented and executed by people, as opposed to executed by systems. See FIPS 200.	<ul style="list-style-type: none"> • HD-IT Chamber Degausser (Data Security, Inc.) • Disk/Tape Shredder • Darik's Boot and Nuke (DBAN) • Active @ KillDisk

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
<p>CIO-092, Media Protection Policy: This policy ensures proper provisions are in place to protect information stored on media, both digital and non-digital, throughout the media's useful life until its sanitization or destruction. Physical Destruction: Physical destruction is an acceptable option for devices and portable media that are permanently being disposed. On storage devices or media that have been rendered inoperable because of failure, physical destruction is required. See Table 5-1: Sanitization Methods (Destroy Method) for more details on this option.</p>						
5515	Secure Transport	<p>Transport Layer Security (TLS)1.2 or greater encryption is required if data needs to be secured during transmission over inherently unsecure protocols such as FTP, HTTP, SMTP, NNTP, or XMPP (unless the data is encrypted prior to transmission). Secure Shell (SSH) is a Unix/Linux-based command interface and protocol for securely accessing a remote computer. This protocol can be used for remote access as well as secure data transport through SFTP and SCP. All electronic payments (credit card, EFT, etc) and the collection of personally identifiable information must be secured during transport (see Category for Network Services - Electronic Commerce and Payments). Strong encryption (256-bit or greater) is recommended and may be required for certain applications, particularly personal and health-related information as prescribed in federal law or required regulatory compliance. Examples include, but are not limited to PCI (Payment Card Industry) compliance, FISMA (Federal Information Security Management Act), HIPAA (Health Insurance Portability and Accountability Act), FERPA (Family Educational Rights and Privacy Act) and IRS Publication 1075. WS (Web Service) security protocols should be used whenever web services are designed and implemented. To authenticate and secure the web server, a server certificate (digital ID), available from Entrust, must be assigned to the web server. This includes secure servers operated under contract, although any server certificate software may be used in those instances.</p>	S03.002.003	Controls > Control Categories > Technical	<p>The security controls (i.e., safeguards or countermeasures) for an information system that are primarily implemented and executed by the information system through mechanisms contained in the hardware, software, or firmware components of the system. See FIPS 200.</p>	<ul style="list-style-type: none"> All web browser approved products (Category 3511) support TLS 1.2 All web server approved products (Category 3510) support TLS 1.2 Secure Shell (SSH), Secure Shell v2 (SSH2)
5530	Virus Scanning	<ul style="list-style-type: none"> All desktops, laptops and servers shall have antivirus/malware protection installed All systems shall undergo at a minimum a monthly full system scan for viruses and malware Where possible, portable devices shall also have antivirus protection Antivirus/anti-malware shall be centrally managed with ongoing updates and reports End users shall not be able to disable the antivirus/anti-malware software on their systems Scans should be scheduled to occur automatically 	A02.029.343	Application Components > Security Controls > Virus Protection	<p>Software used to prevent, detect, and remove self-replicating programs that run and spread by modifying other programs or files.</p>	<ul style="list-style-type: none"> Symantec Complete Endpoint Defense (with SEP) - Microsoft Sharepoint OPSWAT Metadefender (on-premise) Symantec Complete Endpoint Defense (with SEP) - Microsoft Exchange Symantec Endpoint Protection - Windows Server OS Symantec Complete Endpoint Defense (with SEP) - Linux OS McAfee Endpoint Protection – Advanced Suite Symantec Complete Endpoint Defense (with SEP) - Windows Desktop OS

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5545	Spam Filtering	Support for all approved hardware platforms, operating systems software and applications. Ability to detect an unsolicited or inappropriate email and deliver to a separate inbox for review before delivery to the addressee.	A02.029.343	Application Components > Security Controls > Virus Protection	Software used to prevent, detect, and remove self-replicating programs that run and spread by modifying other programs or files.	<ul style="list-style-type: none"> Microsoft Defender for Email Proofpoint Secure Email Gateway Platform
5550	Web Filtering	<ul style="list-style-type: none"> Must be able to analyze domain name Must be able to break down and analyze web traffic to accurately pinpoint portions of a web page which should not be allowed into the internal network Must be able to block based on content Must be able to be centrally managed 	A02.029.343	Application Components > Security Controls > Virus Protection	Software used to prevent, detect, and remove self-replicating programs that run and spread by modifying other programs or files.	<ul style="list-style-type: none"> Palo Alto NGFW LightSpeed Filter CyBlock (Wavecrest)
5700	Firewall	<ul style="list-style-type: none"> International Computer Security Association (ICSA) - ICSA Labs® Certification for firewall products Firewall Product Developers Consortium (FWPD) Product Certification Criteria Internet Protocol Security Protocol Working Group (IPsec), part of the Internet Engineering Task Force (IETF) National Institute of Standards and Technology (NIST) Firewall Protection Profile Support all Internet Protocol (IP) stacks Approved application servers and operating system (OS) Integration with internetworking hardware and software from Nortel Networks Based on the enterprise policy CIO-076, COT shall manage all enterprise and intranet firewall and VPN services that utilize the KIH infrastructure. Agencies may manage agency-level Tier II firewall services under certain stipulations and with COT network visibility to the firewall. It is imperative that network services for all agencies within the KIH are protected and that the integrity of the KIH is protected to insure that enterprise services are not compromised. The administration of firewalls and virtual private networks (VPN) is a critical component in securing the KIH infrastructure and computing systems. Internet and Extranet (business relationships) VPN connections must be managed to maintain enterprise security and reduce security risks. For this reason, COT shall be the approving authority for access to KIH computing resources. Agencies using the Internet to communicate and share data must use the COT-managed VPN service. Intranet VPN connections shall be managed by COT to maintain enterprise security and network routing efficiencies. Agencies wanting to create Intranet VPN's must use COT VPN approved services. 	S03.002.003	Controls > Control Categories > Technical	The security controls (i.e., safeguards or countermeasures) for an information system that are primarily implemented and executed by the information system through mechanisms contained in the hardware, software, or firmware components of the system. See FIPS 200.	<ul style="list-style-type: none"> Palo Alto is the approved product standard for Tier I firewall services. Tier I classification includes all services and/or systems that are considered an enterprise resource. Avaya VPN router firewall product is the enterprise standard for Tier II firewall Services. Tier II classification includes all services and/or systems that are agency-specific but available for enterprise.
5710	Desktop / Laptop Firewall Software	<ul style="list-style-type: none"> All state-owned laptop computers must have desktop/laptop firewall software installed on them. All VPN-connected and dial-up connected workstations that remotely connect to the state's network must have desktop/laptop firewall software installed on them. 	S03.002.003	Controls > Control Categories > Technical	The security controls (i.e., safeguards or countermeasures) for an information system that are primarily implemented and executed by the information system through mechanisms contained in the hardware, software, or firmware components of the system. See FIPS 200.	<ul style="list-style-type: none"> McAfee Firewall for Non-Consolidate offices Zone Labs: Zone Alarm (free for home use); Zone Alarm Plus; Zone Alarm Pro; Zone Labs' enterprise solution includes Zone Labs Integrity, Zone Labs Integrity Desktop, and Integrity Desktop Manager (simple deployment tool). Symantec Complete Endpoint Defense (SEP) Firewall for consolidated offices with State machines Symantec Endpoint Security Complete (SESC) Firewall

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
						<ul style="list-style-type: none"> for consolidated offices with State machines. Microsoft Windows Firewall
6100	Backup and Recovery	Compatible with approved server and desktop workstation operating systems, network protocols, network topology and database management software.	A02.021.220	Application Components > Data Management > Data Backup and Recovery	Software that creates copies of data which may be used to restore the original after a data loss event or to restore and stabilize data sets to a consistent, desired state.	<ul style="list-style-type: none"> IBM Tivoli Storage Manager (TSM) - services offered by COT EMC Avamar Semperis
6540	Inventory and Distribution	Compatible with existing network protocols, server OS and desktop computer OS.	A01.012.083	System > Systems Management > Software Distribution	Software that supports distribution of software, propagation, installation and upgrade of written computer programs, applications and components.	<ul style="list-style-type: none"> System Center Configuration Manager Recast Software's Right Click Tools WASP Barcode/Inventory System ServiceNow
6600	Mobile Device Management		A01.012.KY001	System > Systems Management > Mobile Device Management	Solution that provides the ability to enroll, track, configure and update mobile devices in an enterprise environment. Security policies and compliance can be enforced and secure mobile access to corporate resources can be provided.	<ul style="list-style-type: none"> Microsoft Intune
7005	Naming Conventions	While there is no current standardized naming convention, please see the suggested "Best Practice" document at " https://cgp.ky.gov/sites/COTPUBDOCS/Standards/NamingConventionBestPractice.pdf " For Server Naming Standards please see the document at " https://cgp.ky.gov/sites/COTPUBDOCS/Standards/ServerNamingStandard.pdf "	B10.811.339	General Government > Information sharing > Information Mapping / Taxonomy / Categorization	Information Mapping/ Taxonomy/ Categorization defines the set of capabilities to support the creation and maintenance of relationships between data entities, naming standards and categorization and allow classification of data and information into specific layers or types to support an organization.	<ul style="list-style-type: none"> IBM InfoSphere Information Governance Catalog
7010	Internet Domain Naming Conventions	Internet Engineering Task Force (IETF) Informational RFC 2146 41 CFR Part 102-173 Jurisdiction of the Internet .GOV domain is available to federal, state and local governments as well as Native Sovereign Nations (NSNs). As required by the U.S. General Services Administration (GSA) for second-level Friday, June 14, 2024	B10.811.339	General Government > Information sharing > Information Mapping /	Information Mapping/ Taxonomy/ Categorization defines the set of capabilities to support the creation	

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
		<p>domain registration, states “must register the full state name or clearly indicate the State postal code within the name.” The Commonwealth Office of Technology is the authoritative source for registration of the second-, third-, and fourth-level .GOV domain for state agencies. (Domain Name System (DNS) Request form) The suffix .kentucky.gov is reserved for use only on the state home page and certain directly associated pages. Both .ky.gov and .state.ky.us are second-level domains that are reserved and approved for Kentucky state government. (Note that name .state.ky.us is scheduled for obsolescence in use for public display based on sunset dates.) At the third level, agencies are permitted to use agency names or program names. If multiple domain names are created, one of the names should be considered primary, used to promote the site and any others should redirect to that name. The following naming conventions are approved: agency_name or program name.ky.gov Examples: Transportation.ky.gov, KYTC.ky.gov, KYTransportation.ky.gov Examples: taxamnesty.revenue.ky.gov, taxamnesty.ky.gov, 511.ky.gov The agency name can be a cabinet, department, or division name, in whatever format the agency chooses - acronym, full name, natural words, etc. Agency names can include ky or k as a prefix, although this redundant usage is not recommended. For additional information related to this standard, please see the suggested “Best Practice” document at "https://cgp.ky.gov/sites/COTPUBDOCS/Standards/InternetDomainNamingBestPractice.pdf"</p>		Taxonomy / Categorization	and maintenance of relationships between data entities, naming standards and categorization and allow classification of data and information into specific layers or types to support an organization.	
7015	Electronic Mail Address Naming Convention	<p>For state government e-mail accounts, the following e-mail naming convention is approved for primary addresses: firstname.lastname@ky.gov distribution_listname@ky.gov Agency distribution listings which allow a search on the Global Address Book to provide a listing of all persons within that agency. Formats: AgencyName@ky.gov, Agency.distribution_name@ky.gov As the state’s domain name registrar and shared services provider of enterprise e-mail, COT will manage and authorize the assignment of ky.gov e-mail addressing. To maintain e-mail domain name integrity, eligibility for ky.gov-based e-mail addresses is limited to qualified state government organizations. Non-unique name combinations will be handled through combinations of initials that render names unique and distinguishable.</p>	B10.813.659	General Government > Support delivery of state services > Email	<p>Defines the set of capabilities to support the transmission of communications over a network. Includes instant messaging</p>	<ul style="list-style-type: none"> • Microsoft Exchange Server • Microsoft Outlook Client
7020	Internet / World Wide Web Design and Publishing	<p>Web technologies considered current standards include most current version per W3C: • Hypertext Markup Language - HTML • Extensible Hypertext Markup Language - XHTML • Cascading Style Sheet - CSS • Document Object Model - DOM • Synchronized Multimedia Integration Language - SMIL • JavaScript and Dynamic HTML – DHTML. Web Page Construction: The Enterprise Web Design Template and supporting style sheets are provided as a starting point for use in creation of all externally-presented entity pages (exclusive of online applications), and for the replacement of existing pages. Template and supporting style sheets may be found at KY Enterprise Web Design Template. Note: The use of other technologies (e.g., Java, Flash) and other document formats (e.g., Adobe Acrobat PDF, Microsoft Word) is permissible when used with the above- referenced design template. External Links: Links to Internet resources external to State Government are encouraged, where appropriate. COT Agency Contact Memo 9805-05 - Policy, Procedures and Guidelines for Approving External Internet Links. GSA guidelines relating to link changes that direct .gov site users to non-.gov sites require all such links to include explicit notification of such re-direction, either within text accompanying the links or as a splash page. Banner Ads: The placement of banner ads and Web site advertising are currently prohibited, as communicated in the CIO policy directive, May 22, 2000, “Moratorium on Banner Advertising on State Web sites.” In this memorandum it is noted that while opportunities may appear very desirable on the surface, there are complex policy issues associated with accepting vendor-sponsored web advertising. GSA guidelines referenced immediately above also forbid such advertising. Metadata: Specific tags are required to meet accessibility requirements, and these are to be defined in a subsequent standard (702x). Government Information Locator Services (GILS) metatags have been adopted by the Kentucky Department for Libraries and Archives GILS program, although agency participation in this program is not currently required.</p>	B10.813.326	General Government > Support delivery of state services > IT System Development / Integration Support	<p>IT System Development / Integration Support includes the software services enabling elements of distributed business applications to interoperate and the software development necessary to facilitate such integration. These elements can share function, content, and communications across heterogeneous computing environments.</p>	<ul style="list-style-type: none"> • Must comply with approved Web Browser standards • Must comply with KY Enterprise Web Design Template

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
7025	Accessibility for Internet / World Wide Web Design and Publishing	The Commonwealth of Kentucky incorporates into its Web Accessibility Standard (WAS) all applicable federal and state laws, including Section 508 of the Federal Rehabilitation Act (1986) (see http://www.access-board.gov/508.htm and http://www.section508.gov), and the World Wide Web Consortium (W3C), Web Accessibility Initiative (WAI), Web Content Accessibility Guidelines (WCAG) 1.0, Conformance Level Double-A. New web pages and major updates to existing web pages will abide by these standards and guidelines effective immediately upon the adoption of the standard. All existing web pages produced by Commonwealth of Kentucky agencies should already meet these standards, since the compliance level has not changed since 2001. The standard applies to all web pages created by Commonwealth of Kentucky agencies. In addition, Kentucky is taking the following steps to ensure accessibility of web pages provided by third-party developers: • informing third-party developers of Kentucky's Web Accessibility Standard; • providing information and resources on implementing Kentucky's Web Accessibility Standard; • monitoring and providing feedback on inaccessible third-party web pages created for the Commonwealth of Kentucky; • seeking alternative third-party developers where the original developers continue to produce inaccessible web pages. All Commonwealth of Kentucky Government web pages will contain a link to this policy. This policy will be reviewed and updated as changes occur in the laws, standards or technologies.	A02.022.245	Application Components > Development Environment and Tools > Validation Tools	Software tools that check web pages for accessibility and syntactical correctness of code.	<ul style="list-style-type: none"> Compliance Sheriff (HiSoftware) Rational Policy Tester Accessibility Edition (IBM) InFocus (SSB BART Group)
7360	Electronic Commerce – Magnetic Stripe Card and Reader	ISO (International Organization for Standardization) approved standard for encoding magnetic stripe data is required to interface with standard readers and the bankcard network for online transaction processing. ISO compliant stripe card readers are required.	I01.004.402	Platform > Peripheral > Computer Input Device	Inputs are the signals or data received by the system, and outputs are the signals or data sent from it. For the purposes of the IRM, computer input devices are those that provide data to the machine/application combination for further processing or for manipulation by users through the human-computer interface devices.	
7410	Voice Mail (VM) Services	All implementation and usage of Voice Mail systems must adhere to the following minimum acceptable standard. This standard represents acceptable usage and should not adversely affect technology costs. Adherence to this standard is expected regardless of the specific product installed. Effective with issuance of this standard, any and all voice mail system must adhere to this standard. Any exception will be reviewed on a case by case basis. VM equipment currently in place may continue to be used and maintained. When it has reached the end of its useful life and the cost of repair or upgrade exceeds its value, replacement should be considered. The “press 0” option must be announced within the first 15 seconds of the recorded greeting. Staff should also receive training on the proper way to leave greetings and messages in voice mail. All Agency Telephone Coordinators will be trained on proper installation and configuration of these systems. This training can be coordinated through the COT's Telecommunication Branch. Please see the suggested “Best Practice” document at " https://cgp.ky.gov/sites/COTPUBDOCS/Standards/VoiceMailBestPractice.pdf "	A02.030.KY005	Application Components > Unified Communications and Collaboration > Voice Mail	Voice Mail is a centralized electronic system that can store messages from telephone callers.	<ul style="list-style-type: none"> Avaya Voicemail
7415	Enterprise and Desktop Voice Services	Standard features for all office workers entitled to a phone: • Re-dial • Analog single-line Phone • Hold • Individual extension/number • Volume control • Call Transfer • Touch Tone (where available) • Standardized color-Black • Accessibility to Voice Mail • Simple documented instructions on how to use features Available features if needed for ADA compliance: • Digital, Programmable Display Phone • Caller ID (where available and policy allows) • Intercom calling • Call Forwarding • Availability of ADA compliant instruments where needed • Multi-line • Speaker Phone • Call Pick-up • Call Parking • Headsets • Remote access to voice mail • Waiting voice mail notification through a stutter dial tone or Friday, June 14, 2024	I01.003.302	Platform > Communications Hardware > Telephony Handset	A telephony handset is a device the user holds to the ear to hear the audio sound, usually containing the phone's microphone.	<ul style="list-style-type: none"> Avaya Enterprise and Desktop Voice Services Sentry software - 911 secure

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
		flashing light. Additional features available to operators/help desk/call center attendants: • Headsets • Direct Station selection (multi-button instrument) • Busy Display • Call Management Tools Standard enterprise features available for all offices: • 800/888 services (part of KIH) • 900 services • 911 services (NENA guidelines prevail) • Access and account codes • ACD • Auto Attendant • Lobby and common areas (Local and 800 calls only) • Elevators (controlled by the elevator company) • Conference rooms (full access except 900 services and International calling) • Conference speaker phones • Common labels on all phone buttons • Music on hold (MUZAC or recorded announcements such as what the agency offers, business hours etc.) • Single number to call for service 502-564-7576 for moves adds or changes Long distance (LD) use is restricted to government business (employees should use personal calling cards or personal cell phones). Please see the suggested "Best Practice" document at " https://cgp.ky.gov/sites/COTPUBDOCS/Standards/EnterpriseDesktopVoiceServicesBestPractice.pdf "				
7420	Automated Attendant Systems	All implementation and usage of Automated Attendant systems must adhere to the following, minimum acceptable standard. This standard represents acceptable usage and should not adversely affect technology costs. Adherence to this standard is expected regardless of specific products installed. • Adherence to all ADA requirements will be required for the use of special devices such as the TTY/TDD. • All Agency Telephone Coordinators will be trained on proper installation and configuration of these systems. This training can be coordinated through the COT's Telecommunication Branch. See the suggested "Best Practice" document at " https://cgp.ky.gov/sites/COTPUBDOCS/Standards/AutoAttendantSystemsBestPractice.pdf ".	A02.030.KY001	Application Components > Unified Communications and Collaboration > Automated Call Attendant	Software that allows callers to be automatically transferred to an extension without the intervention of an operator/receptionist). Many such software will also offer a simple menu system ("for sales, press 1, for service, press 2," etc.). An auto attendant may also allow a caller to reach a live operator by dialing a number, usually "0".	<ul style="list-style-type: none"> Avaya Automated Attendant System
7425	Automated Call Distribution Systems (ACD)	All implementation and usage of an ACD system must adhere to the following, minimum acceptable standard. This standard represents acceptable usage and should not adversely affect technology costs. Adherence to this standard is expected regardless of specific products installed. • Equipment currently in place can continue to be used and maintained. When it has reached the end of its useful life and the cost of repair or upgrade exceeds its value, replacement should be considered. • An ACD should only be placed upon incoming customer lines. These lines frequently come into a call center or help desk environment. • If the ACD is used in conjunction with an Automated Attendant, all standards for that product must also be followed. See the suggested "Best Practice" document at " https://cgp.ky.gov/sites/COTPUBDOCS/Standards/AutomatedCallDistributionSystemsBestPractice.pdf ".	A02.030.KY002	Application Components > Unified Communications and Collaboration > Automated Call Distribution Systems (ACD)	Automated call distribution system, is a device or system that distributes incoming calls to a specific group of terminals or agents based on customer need, type, and agent skill set. It is often part of a computer telephony integration (CTI) system.	<ul style="list-style-type: none"> Avaya - Contact Center 6.0 (CC6) or higher
7430	Interactive Voice Response (IVR) Services	All implementation and usage of IVR systems must adhere to the following, minimum acceptable standard. This standard represents acceptable usage and should not adversely affect technology costs. Adherence to this standard is expected regardless of specific products installed. • Equipment currently in place can continue to be used and maintained as long as it continues to be compatible with the switch platform. When it has reached the end of its useful life and the cost of repair or upgrade exceeds its value, replacement should be considered. • Adherence to all accessibility and ADA requirements will be required for the use of special devices such as the TTY/TDD. • If required, IVR systems must be programmed to interface with appropriate relational database management software product standards defined in KITS. Configuration and consulting assistance must be obtained from COT's Division of Communication Services, Network Engineering Branch, for these systems. See the suggested "Best Practice" document at " https://cgp.ky.gov/sites/COTPUBDOCS/Standards/IVR_BestPractice.pdf ".	A02.030.KY006	Application Components > Unified Communications and Collaboration > Interactive Voice Response (IVR) Services	Interactive voice response (IVR) is a technology that allows a computer to interact with humans through the use of voice and DTMF tones input via keypad.	<ul style="list-style-type: none"> Anexsys GovConnect Avaya

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
7435	Computer and Telephone Integration (CTI) Systems	<p>All implementation and usage of CTI systems must adhere to the following, minimum acceptable standard. This standard represents acceptable usage and should not adversely affect technology costs. Adherence to this standard is expected regardless of specific products installed. • Equipment currently in place can continue to be used and maintained. When it has reached the end of its useful life and the cost of repair or upgrade exceeds its value, replacement should be considered. • Some CTI applications can be very proprietary, requiring specialized equipment and telephones. These systems must be avoided in favor of “open” systems and architectures that can function with Web interfaces and other newer technologies that may become available. • CTI systems must be compliant with existing database standards as defined in the Commonwealth of Kentucky IT Enterprise Architecture and Standards documents. • Sensitivity and security need to be considered when phrasing the questions and gathering the data during one of these sessions. The data collected and stored in a database must adhere to existing security and privacy standards adopted by the Commonwealth. (Reference Web site: Chief Information Security Officer - Services) • When these systems are used to conduct e-Business by buying products, authorizing payments, etc., care should be taken as it relates to security and privacy issues. (Reference standard 5515 “Secure Transport”.) • Adherence to all ADA requirements will be required for the use of special devices such as the TTY/TDD.</p>	101.005.KY001	Platform > Virtualization > Computer and Telephone Integration (CTI) Systems	Computer and Telephone Integration (CTI) Systems allow interactions on a telephone and a computer to be integrated or coordinated.	<ul style="list-style-type: none"> • Avaya(CTI) • RSI CMS Shadow • Avaya IP Office
7440	VoIP	<p>VoIP must be delivered in a secure environment. Category 5 Cabling infrastructure is the minimum requirement. The agencies network switches and data circuitry must be able to accommodate the VoIP application. POE must be available. The VoIP solution must be able to interface with all applications in the related categories. See VoIP IT Standard General Requirements document at "https://cgp.ky.gov/sites/COTPUBDOCS/Standards/VOIP_GeneralRequirements.pdf" for: • Switch Acceptance • Network Event Analysis</p>	102.004.401	Network > Transmission Type > Voice over IP (VoIP)	<p>Voice over IP (VoIP, or Voice over Internet Protocol) commonly refers to the communication protocols, technologies, methodologies, and transmission techniques involved in the delivery of voice communications and multimedia sessions over Internet Protocol (IP) networks, such as the Internet. Other terms commonly associated with VoIP are IP telephony, Internet telephony, Voice over Broadband (VoBB), broadband telephony, IP communications, and broadband phone. Internet telephony refers to communications services — voice, fax, SMS, and/or voice-messaging applications — that are transported via the Internet, rather than the Public Switched Telephone Network (PSTN). The steps involved in originating a VoIP telephone call are signaling and media channel setup, digitization of the analog voice signal, encoding, packetization, and transmission as Internet Protocol (IP) packets over a packet-switched network. On the receiving side, similar steps (usually in the reverse order) such as reception of the IP packets, decoding of the packets and digital-to-analog conversion reproduce the original voice stream. Even though IP Telephony and VoIP are terms that are used interchangeably, they are actually different; IP telephony has to do</p>	<ul style="list-style-type: none"> • Avaya VoIP

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
					with digital telephony systems that use IP protocols for voice communication, while VoIP is actually a subset of IP Telephony. VoIP is a technology used by IP telephony as a means of transporting phone calls.	
7445	VoIP softphone	VoIP must be delivered in a secure environment. The agencies network must be able to accommodate the VoIP application. The VoIP solution must be able to interface with all applications in the related categories. The softphone is a software application loaded on a desktop or laptop computer that enables the employee to utilize the computer keyboard, microphone, and speakers to make and receive calls. Operation is dependent on version of computer hardware/software.	A02.030.363	Application Components > Unified Communications and Collaboration > Instant Messaging	Software that supports text, voice and/or video communications between two or more users.	<ul style="list-style-type: none"> 911 Sentry Avaya i2050
7450	Desktop Unified Messaging / Faxing	Desktop messaging will be available on employee's desktop computer with the correct version of computer operating software and correct version of Microsoft Outlook. Manufacturer specifications will need to be adhered to in compliance with approved standards for operating systems and email.	A02.030.363	Application Components > Unified Communications and Collaboration > Instant Messaging	Software that supports text, voice and/or video communications between two or more users.	<ul style="list-style-type: none"> Avaya
7560	Enterprise Directory Services	Single primary forest multiple domain architecture with cabinets as domains or organizational units (OU) and agencies designated as organizational units (OU). Requests for separate Cabinet Level forests are required. • Enabled for Lightweight Directory Access Protocol (LDAP); LDAP version 2 and LDAP version 3. • IP based Domain Naming System (see Category 4005). • Support for X.400 messaging protocol. • Compatible with Enterprise Standards product(s) in Category 2600 - Electronic Mail. • Compatible with Enterprise Standards product(s) in Category 3300 - Router and Category 5700 - Firewall. • Multiple platform server support: Approved Windows products in Enterprise Standards Category 2110 – Operating System Server. • Multiple desktop client operating systems support Windows products in Category 2100 – Operating System (O/S) – Desktop and Laptop/Notebook. • Active Directory Federated Services - WSFED\SAML 2.0 \OATH ADFS 4.0 - Windows Server 2016	A02.029.340	Application Components > Security Controls > Authentication and Authorization	Software that supports obtaining information about parties attempting to log on to a system or application for security purposes and the validation of those users.	<ul style="list-style-type: none"> Microsoft Active Directory
8100	Application Development Methodology and Software	Structured Analysis and Design - Commonwealth Office of Technology's Systems Development Life Cycle (SDLC) Methodology (COT-140) RUP: Rational Unified Processing: Implementing Features from RUP AND UML BASED design and analysis OOAD: Object Oriented Analysis and Design	B10.813.326	General Government > Support delivery of state services > IT System Development / Integration Support	IT System Development / Integration Support includes the software services enabling elements of distributed business applications to interoperate and the software development necessary to facilitate such integration. These elements can share function, content, and communications across heterogeneous computing environments.	<ul style="list-style-type: none"> Azure DevOps Rational Software Architect GoF (Gang of Four) Patterns Extensibility Frameworks Docushare *Not for new installations JetBrains Resharper for Visual Studio Balsamiq - UI Wireframing tool LinqPad StoriesOnBoard Axure RP JetBrains Developer Tools

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						<ul style="list-style-type: none"> Azure DevOps Integration Tool erwin Data Modeler JetBrains PyCharm OrBus IServer Xerox Objectif Lune PlanetPress Suite Microsoft - Visio Microsoft Visual SourceSafe *Not for new installations EntityFramework Reverse POCO Code First Generator GitLab Trello Project Management Tool InVision Software SaaS Subscription, Pro Plan Microsoft Team Foundation Server Tortoise SVN PyCharm Genome Professional
8200	Application Development Platform	<p>The Commonwealth of Kentucky has adopted a standard which mandates that every state agency developing or purchasing new departmental or enterprise applications must utilize one of the six application development platforms described below. Four of the platforms address legacy and traditional applications, while the final two platforms address applications intended for wireless and mobile platforms. Applications that will be accessed primarily via desktop or laptop computers must utilize one of the following five application development platforms, or a combination thereof. 1.Windows DNA/COM+ Platform (not for new installations)(Distributed interNet Applications Architecture) Microsoft combined its Component Object Model + (COM+) Technologies into a single overarching platform called Windows DNA. The platform provides an overall architecture that includes Microsoft's formerly separate ActiveX, COM/DCOM, and other Microsoft component technologies. Classic ASP Applications Using IIS 5.0 below. 2. Microsoft .NET Platform - the most recent topology of applications prescribed by Microsoft and implemented in most Microsoft development tools and runtime middleware. .NET includes the .NET Framework, a runtime multi-language application platform, and COM+, a transaction integrity extension to the Framework. .NET supports multiple programming models, including XML Web services, WebForms, WinForms and others: a. Biztalk 3. IBM z/OS Platform (the z/OS and earlier MVS platforms were characterized by applications written in COBOL, or Telon, executing under one of the following environments, while possibly accessing QSAM, VSAM, IMS/DB or DB2 for data access) a. Batch Execution Environment – This environment is characterized by executing under control of JES (Job Entry Subsystem) with JCL (Job Control Language). These jobs are usually scheduled with CA-Scheduler. Programs execute as steps within these jobs and are developed with various languages (including Enterprise COBOL, HASM, SAS, etc.) that usually run under LE (Language Environment). b. IMS Subsystem – The IMS subsystem is a transaction monitor that executes programs as transaction within specified IMS transaction regions. Programs execute as transactions or subprograms and are developed with various languages (including Enterprise COBOL, HASM, etc.) that run under LE (Language Environment). Development in this environment is deprecated. c. CICS Subsystem – The CICS subsystem is a transaction monitor that executes programs as transactions. Programs execute as transactions or subprograms and are developed with various languages (including Enterprise COBOL, HASM, etc.) that run under LE (Language Environment). Development in this environment is deprecated. d. IBM Message Broker platform – This is the IBM Message Broker platform</p>	A02.022.240	Application Components > Development Environment and Tools > Integrated Development Environment	Software that provides comprehensive facilities to computer programmers for software development.	<ul style="list-style-type: none"> .NET Framework 4.6.1 DataFlux IBM QMF/SPUFI Log4J PCO (Production Cutover) Centura Team Developer Ghostsript Karamasoft Silverlight Spell Checker Notepad XML Backbone.js Enterprise COBOL for z/OS JCL Check (JCL Verification/Standardization) Microsoft Visual Studio .NET, including Enterprise Architect 2010, 2008, 2005, and 2003*, Enterprise Developer 2010, 2008, 2005, and 2003*, Professional 2010, 2008, 2005, and 2003* AngularJS DynamicPDF Generator.NET Microsoft Developer Network Python

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		<p>that runs with IBM WebSphere Application Server. This serves as an Enterprise Service Bus and acts as a broker for application integration. Software is developed using IBM Message Broker Toolkit within the Rational Application Developer Suite. 4. UNIX Platform (the traditional UNIX platform is characterized by applications written in C or C+, executing on SUN or IBM UNIX servers, while accessing data stored in Oracle databases) 5. Java 2 Platform, Enterprise Edition (Java EE) - a Sun Microsystems-sponsored architecture specification that prescribes application architecture for Java-based business applications. Java EE is implemented by multiple vendors and includes a J EE application server combined with Java EE message-orientated middleware. Programming models of Java EE include Java Server Pages, servlets, Session EJB and entity Enterprise JavaBeans. State agencies developing or purchasing new, wireless departmental or enterprise applications that will be accessed primarily via wireless phones and PDAs must utilize one of the following two application development platforms: 1. Microsoft .NET Compact Framework - provides tools for developing mobile app</p>				<ul style="list-style-type: none"> • PIP - Package Management System for Python packages • Spring Hibernate • Visual J# • Rocket Software (Formerly Progress DataDirect Shadow) • VB Scripts and Java Scripts • Rational Application Developer • Rational Team Concert • Telon Development Facility • Zxing.NET (Zebra Crossing) - library which supports decoding and generating of barcodes • Strobe/iStrobe (Z/OS Profiler) • WebSphere • PHP • DBF Commander Professional (FoxPro) • DevExpress Development Tools • Google Maps API • Altova MissionKit (XMLSpy, MapForce, StyleVision) • Xsd2code++ • ASP.NET (C# or VB) • ELMAH (Error Logging Modules and Handlers) - debugging tool for ASP.NET web services • ISPF Dialog Management Facility • Microsoft Visual SourceSafe Classic for (Microsoft Legacy Applications) CA-Librarian (z/os) • Abend-Aid (Error Analysis) • Dollar Universe • Infragistics Controls • Micro Focus Studio for COBOL Developers • Program Analyzer (COBOL Source Analysis) • KyETS SICPA authentication solutions • VSAM Assist • CSLA (.net Framework) • Hiperstation • Librarian • Oracle SQL Developer

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
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- Chicago Soft
- MVS/QuickRef
- CA Platinum
- FxCOP (code walkthrough Microsoft)
- Junit
- Nhibernate - object-relational mapper for the .NET framework
- Query Management Facility (QMF)
- Rational Software Architect for WebSphere Software
- Telerik DevCraft DevTools
- Xpedito (Compuware)
- Squirrel (DB2)
- VisualAge COBOL *Not for new development
- Spool Display Sysout Facility (SDSF) (Job Queue Access)
- Visual C++
- REXX/CLIST
- ULS Viewer
- AgilePoint NX
- Jira
- .NET Framework 4.7.1
- Jenkins Automation Server
- GhostDoc Pro
- Dynamsoft Dynamic Web TWAIN SDK
- R Programming Language
- Redgate SQL Prompt Pro
- File-AID (IMS, DB2, RDX)
- Compuware Xpedito (z/os debugging)
- Git Hub (Bash/GUI) - distributed version-control platform
- LAMP Stack (Linux, Apache, MySQL, PHP)
- Nunit (unit Test Microsoft)
- LRS PageCenterX (PCX)
- C and C++
- FileMaker Pro
- JQuery
- Newtonsoft.Json - JSON framework for .NET
- Aqua Data (DB2)
- EditPlus
- Interactive Productivity Services Facility (ISPF)
- Microsoft TechNet
- Apache Ant version 1.10.8

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
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- or above should be used
- .NET Framework 4.8
- dbForge SQL Complete
- IBM SPSS
- Micro Focus Server for COBOL
- PL/SQL (Oracle)
- Rational ClearCase (Source Control)
- Scheduler
- Visual Basic
- Resource Access and Control Facility (RACF) (System Security)
- TOAD (Oracle)
- Query Management Facility (DB2)
- Rational Rhapsody
- Syncsort
- Xceed Zip
- SQL Server Management Studio
- VisualAge C++
- Redgate SQL Toolbelt
- Aspose.Pdf for .NET API
- Gupta OpenText
- Java De-compiler
- UltraEdit
- Visual Studio Community
- Apple Developer Program (Approved for Personnel Cabinet)
- Eclipse
- Microsoft Silverlight SDK
- TensorFlow - library for machine learning (Version 2.0 or newer is approved)
- .NET Framework 4.7.2
- DB2 for z/os (Database Manager)
- IBM Redbooks
- Metalogix StoragePoint
- PHIN MS
- dbForge Studio for Oracle
- Compuware File-AID (z/os)
- Gimp (graphics editor)
- Keras - Nueal network library
- Notepad++
- Ghostscript
- Redwood RunMyJobs
- Bouncy Castle cryptographic APIs for Java and C#
- Enterprise COBOL for z/OS

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
						<ul style="list-style-type: none"> (IBM) • Job Control Language (JCL) • Microsoft Windows Software Development Kit • Qbase • Rational Developer for z • Sybase Client ASE 15 • WiX (Windows Installer XML) Toolset (v3.10 and above) • ASG Validate • SPUIFI (DB2) • Visual Studio • SAS (Statistical Analysis System) • Visual Age Enterprise Suite • Rational UrbanCode • Textpad • Vanguard z/OS RACF Admin, Advisor, Analyzer and Policy Manager • Oracle Application Express (APEX) • Keyoti SearchUnit - Search Engine for ASP.NET web app • Redgate Deployment Suite for Oracle • Node.js • PM2 Process Manager • LinqConnect • Agent Ransack • Visual Studio Professional

8300	Application Development Quality Management Software	<p>Application Development Quality Management Software tools provide features to assist in testing activities such as: load/stress testing, functional/regression testing, requirements traceability and security assessments. Need a limited product set for: economies-of-scale with respect to procurement, skills transferability required by a mobile workforce, data interchange between state government agencies, skills requirements for a competency team development environment. Approved Standards: • International Organization for Standardization (ISO) • Compliance with Section 502, WCAG 1.0, WCAG 2.0, CLF, XAG Standards Technical and Implementation Considerations: The advent of service-oriented architecture (SOA), increasing complexity and more regulations are renewing the focus on raising quality efforts, through more-effective approaches. This increases the need for solutions that are well-integrated across the application life cycle, not only during the development cycle but also into production. Emerging Trends and Architectural Directions: Requirements for testing products have changed from testing the product in isolation to integrating the testing with the rest of the product's life cycle, and to support collaboration across the QA team and among the entire project team. Therefore, IT organizations should focus on testing workflow and quality management issues across the organization when selecting a set of tools.</p>	A02.022.245	Application Components > Development Environment and Tools > Validation Tools	Software tools that check web pages for accessibility and syntactical correctness of code.	<ul style="list-style-type: none"> • Seapine Software TestTrack Professional • HiSoftware Compliance Sheriff • Multi Browser Viewer by TWD Solutions Pte. Ltd. • Precisely Code1 Plus • MailHog • Micro Focus Fortify • Fiddler • Mercury Quality Center (Hewlett Packard) • HiSoftware AceVerify • Mercury LoadRunner (Hewlett Packard) • Mailinator (Approved for
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EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
						<ul style="list-style-type: none"> non-production environments) HiSoftware AccRepair Visual Studio Team Suite SOAP UI Team Foundation Suite HP Quality Center ver 12.0 Hewlett Packard WebInspect Postman SonarQube
8310	Quality Management Software	Software to ensure that data are fit for their intended uses in operations, decision making and planning and to ensure internal consistency of the data.	A02.021.224	Application Components > Data Management > Data Quality Management	Software to ensure that data are fit for their intended uses in operations, decision making and planning and to ensure internal consistency of the data.	<ul style="list-style-type: none"> erwin by Quest HP Mercury IBM InfoSphere Information Analyzer
9994	Vulnerability Scanning and Detection		A01.011.KY001	System > Security Management > Vulnerability Scanning and Detection	Software that scans for vulnerabilities and detects configuration issues	<ul style="list-style-type: none"> Qualys Tenable Nessus OpenVAS CheckMarx (CXFAST) AppSpider Pro AppDetective Varonis Security Software
9995	Modeling		A02.025.285	Application Components > Knowledge and Discovery Management > Modeling	Software to develop descriptions that adequately explain relevant data for the purpose of prediction, pattern detection, exploration or general organization of data.	<ul style="list-style-type: none"> IBM Rational System Architect
9996	Risk Management	All Commonwealth Systems and Applications must be appropriately reviewed to determine risk. Security categorization of Systems and Applications is an important step for risk management. Standards for Security Categorization is at " https://cgp.ky.gov/sites/COTPUBDOCS/Standards/SystemSecurityCategorizationReference.pdf ".	A02.027.322	Application Components > Process Automation and Management > Risk Management	Software that allows planners to explicitly address uncertainty by identifying and generating metrics, setting parameters, prioritizing, and developing mitigations, and tracking risk.	<ul style="list-style-type: none"> eRIMS2 - Risk Insurance Management System Origami Risk Management RSA Archer Policy Management RSA Archer Compliance Management RSA Archer Risk Management

EAS Code	EAS Category	Standard	KITS Category	KITS Hierarchy	KITS Description	Approved Products
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9997

Low to Medium (1500/4000 pages per day max) Volume Scanners – Digital Imaging

These scanners are for single users. • Hi-Speed USB 2.0 connection • 24-bit color, 8-bit grayscale, 1-bit black and white scanning • Letter/Legal paper scan • Optical Resolution of 300 DPI or greater • 20 ipm or greater (low) • 100 ipm or greater (Medium)

I01.004.402

Platform > Peripheral > Computer Input Device

Inputs are the signals or data received by the system, and outputs are the signals or data sent from it. For the purposes of the IRM, computer input devices are those that provide data to the machine/application combination for further processing or for manipulation by users through the human-computer interface devices.

- Xerox MPS - www.ky-mps.com
- FUJITSU fi Series Document Scanners - For use with OnBase
- Fujitsu ScanSnap iX1500 Scanner

Friday, June 14, 2024