

**AI Tools/Components:** Generative AI tools or items having generative AI components must be certified separately before use, in accordance with ACJA §1-509.

## ARIZONA JUDICIAL BRANCH ENTERPRISE ARCHITECTURE STANDARDS

### Definitions/Implications

Definitions	Implications
<b>Baseline</b> – Listing of products and services typically in use today within the court system.	Provides context to aid reader in understanding the layer or scope being specified by the row in the table.
<b>Retirement</b> – Obsolete product or technology being targeted for de-installation.	No new use allowed without exception being granted by COT. Necessitates specific strategy in next IT Strategic Plan for removal/replacement within plan period.
<b>Containment</b> – Use of product or technology limited to maintenance and current commitments only.	No additional use allowed without exception being granted by COT, except enhancement or expansion of a current implementation. The next stop on the lifecycle is retirement; therefore, further investment is unwise and serves to make removal/replacement more difficult and expensive.
<b>Mainstream</b> – The current standard for any new systems or migrations from legacy systems.	The primary option when adopting a new technology or selecting a new product. Any other choice requires that an exception be granted by COT.
<b>Scope of Standard</b> – Elaborates on the degree or range of application of the mainstream item.	Distinctions may be made by function, court size, or jurisdiction, for example.
<b>Watchlist</b> – Emerging technologies products or releases being considered for adoption but not yet formally adopted.	Included for court reference, these items may be dropped or moved to mainstream in the next revision of the table as more becomes known about them. Courts should proceed cautiously in this area, using a pilot approach to implementation.
<b>Comments</b> – Any related information not fitting within the other columns.	
<b>Exception</b> – A formal agreement to enable the court to pursue a non-mainstream direction or install a non-standard product.	Requires use of the exception request document available at <a href="https://www.azcourts.gov/cot/EnterpriseArchitectureStandards.aspx">https://www.azcourts.gov/cot/EnterpriseArchitectureStandards.aspx</a> and submittal to TAC for recommendation to COT for a formal motion. Exceptions are granted only to the court requesting the exception – further development or use outside that court requires a further exception.

### Updates

A bi-annual review of these standards by the Technical Advisory Council is recommended. Local or state automation projects requiring exceptions can initiate a review of selected items at any time.

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Architecture Layers	Baseline (currently in use)	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Mainstream <b>FUTURE</b> (for new systems or legacy migration)	Scope of Standard	Watchlist: Emerging Technologies (to be evaluated for future inclusion)	Comments
<b>Applications &amp; Tools</b>							
User Interface Delivery Method for Public Access	Browser-based: Edge, Firefox, Chrome, Safari	IE; HTTP; HTTPS/TLS <1.2		Browser-based (Version Support) Responsive Web Design using TLS ≥1.2 (HTTPS)	For Microsoft Edge, Firefox, Google Chrome, Safari, Mobile Device Browsers	Mobile Apps	Websites should indicate browsers tested
User Interface Delivery Method for Business Applications	Browser-based, Windows Forms, ASP.Net, WPF	Character based, Silverlight, Plugin-based, Classic ASP	.NET Framework	.NET based, Browser-based, WPF, Windows forms		UWP, Native Mobile Apps, HTML5, .NET MAUI, .NET Current Release+, .NET Aspire, AI agents	
Electronic Document Management	Hyland OnBase, SIRE, FileNet, OpenText	Hyland OnBase ≤EP5	Hyland OnBase ≤2023.1	Hyland OnBase 2024.1	Native-application-attached SaaS EDMS is allowed	Hyland OnBase 2025.1	
Document Imaging	Kofax, OnBase Scanning Module, PaperPort, ScandAllPro	Kofax Card (SCSI connection)	Kofax Ascent Capture; OnBase Prod. Doc. Imaging	OnBase Unity Client Scanning			See sep stds for non-OnBase scanning
Report Writer for Ad Hoc Reporting	Crystal Enterprise, Crystal 8-11, SSRS, Power BI	Crystal <10, MS SQL Server Reporting Services ≤2012	Crystal 10, MS SQL Server Reporting Services 2017	Crystal >10, MS SQL Server Reporting Services 2019, R (language), Power BI		SAP Enterprise 15, Power Platform	

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Report Writer for Business Application Reports	Varies: Crystal, native application report writers, “hard coded” reports, SSRS, Report Builder, Power BI	Crystal <10, MS SQL Server Reporting Services ≤2012	Crystal 10; MS SQL Server Reporting Services 2016/2017	Crystal 11+, MS SQL Server Reporting Services 2019/2022, Power BI, R		SAP Reports 15 , Power Platform	
Report Delivery	Crystal Enterprise	Crystal Enterprise <2020	RemiCrystal <5.0	Crystal Enterprise ≥2020, SSRS 2019, RemiCrystal 5.0			
Data, Research, and Analysis Tools	SPSS SAS Power BI			SPSS, Power BI, SAS, MS Analysis Services (SSAS)		R, Python (with libraries like Pandas, NumPy, SciPy), Power Platform	
Development Languages	.ASP, .ASPX, classic ASP, C#, VB.NET, PHP, Panther, VB6, PERL, SQL, T-SQL, PowerShell, HTML/CSS, JavaScript, TypeScript	ASP (Classic), Panther, VB6, .NET Unsupported Versions	Java, .NET Previous Versions Still in Support	.NET Previous Version, .NET Framework, .Net supported Languages, JavaScript, TypeScript, Python, XAML, HTML/CSS	.Net ≥6 months beyond release	.NET Latest Version.0+	Open Source must be approved by TAC prior to production use
Development Environment	Visual Studio, PowerBuilder, Panther, MS-Access, Creative Suite, Hawkeye, Eclipse, JAM, Nevron	Visual Studio ≤2012, Panther, MS-Access, PowerBuilder	Visual Studio 2013-2017	Visual Studio 2022+ with GitHub Copilot, VS Code		Visual Studio with GitHub Copilot, AI, jupyter, PyCharm	Open Source must be approved by TAC prior to production use

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Source Control	Visual Source Safe, CCC Harvest (Phx.), Aldon (JOLTS), Team Foundation Server, Git, SVN	Aldon, VSS, CCC Harvest, Mercurial	SVN, source control process	Git or Azure Devops	All developed systems		
Analysis Tools	Visio, Erwin, BPWin, Rational, Power BI			UML, BPEL BPMN, R, Power BI			
Code Generation	PowerBuilder, Visible Developer, Alachisoft	Alachisoft, Visible Developer, PowerBuilder		T4, LinqToSchema	Legacy APIs, WebAPIs, REST, gRPC, OpenAPI	.Net Tools	
Conversational AI	Azure Bot			Azure Bot	See AI Steering Committee recommendations and approvals	AmazonBot , Google Chat, natural language, speech, and vision, Python API, Copilot Studio	
Support Agent	LiveChat			LiveChat			

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Courtroom Recording	FTR, Liberty, JAVS	Any unsupported FTR, Liberty, or JAVS release	FTR Gold ≤7.6, FTR Realtime <2.1 Liberty Court Recorder <8.7, Liberty Meeting Recorder >4.9, JAVS <8.3.7	FTR Justice Cloud; FTR Virtual Recorder, FTR Realtime 2.1, FTR QuickDraft, FTR Gold 7.7, Liberty Court Recorder 8.7, Liberty Meeting recorder 4.9, JAVS Autolog Recorder ≥8.3.7			
Courtroom Infrastructure (Wiring)	VGA, HDMI, Coax, Cat 6e	VGA	HDMI, Coax	Cat 6e, XLR cabling, speaker wire		Fiber	
Courtroom Control Technology	Kramer, Crestron, Extron, AMX, Control4, JAVS		Control4, QSC	Kramer, Crestron, Extron, AMX, JAVS			for multiple monitors, use RS-232, IR, or ethernet control
Courtroom Audio	Antex, Bi-amp, JAVS, QSC	Antex		Bi-amp, JAVS, QSC	Requires ≥4-channel breakout DSP		
Automated Text Messaging	Twilio			Twilio		Azure	
No-Code Tools	Power Platform			Power Platform, Copilot Studio		Copilot Studio	For non-production use only
<b>Office/Personal Productivity Tools</b>							
Word Processing	Word	Microsoft 365 Word ≤2019; Word <2021	Microsoft 365 Word 2302; Word 2021	Microsoft 365 Word Monthly Enterprise; Word 2024			

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Spreadsheet	Excel	Microsoft 365 Excel ≤2019; Excel <2021	Microsoft 365 Excel 2302; Excel 2021	Microsoft 365 Excel Monthly Enterprise; Excel 2024			
Presentation	PowerPoint	Microsoft 365 PowerPoint ≤2019; PowerPoint <2021	Microsoft 365 PowerPoint 2302; PowerPoint 2021	Microsoft 365 PowerPoint Monthly Enterprise; PowerPoint 2024			
Local Standalone Database,	MS-Access, TurboImage, T-SQL, PostgreSQL	Microsoft 365 MS-Access ≤2208	Microsoft 365 MS-Access 2302	Microsoft 365 Access Monthly Enterprise	Non-Production use only		
E-mail Client Product	Outlook, GroupWise,	Microsoft 365 Outlook ≤2208, Outlook <2021, GroupWise (unsupported versions)	Microsoft 365 Outlook 2302, Outlook 2021, GroupWise (supported versions)	Microsoft 365 Outlook Monthly Enterprise, Outlook 2024		New Outlook	
Instant Messaging	Skype for Business, IBM Sametime, Jabber, MS Teams	MS-Live Communication Server, Lync, Skype for Business		MS Teams, Jabber			
Collaboration	SharePoint, Exchange + Outlook, MS-Office, Office 365, WebEx, Google Apps, GoToMeeting, MS Teams, Zoom	Google Apps, Skype for Business, GoToMeeting	Polycom / Poly, WebEx, Point-to-Point Connection	Zoom, MS-Teams, WebEx (non-AJIN)			

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Cloud Data Storage	SharePoint	SharePoint Server <2013	SharePoint Server ≥2013	SharePoint Services, Azure Storage			
Customer Relationship Management	MS-Dynamics			MS-Dynamics			
Social Media Tools				Per Local Court Business Policy			
Desktop Virtualization	VMWare, Citrix, Hyper V			VMware View, Hyper-V, Citrix Xen	Thin Client Installation		
Distance Learning	Centra, Granicus, Accord LMS		Centra	Granicus, Accord LMS , YouTube			
<b>Data Architecture</b>							
DBMS	Informix, , SQL Server, MySQL, Oracle, Progress, B-trieve	SQL Server ≤2017, Informix ≤11.7.x	SQL Server 2019, Informix 121, MySQL 7.5	SQL Server 2022, MySQL 8.0	Court core business applications (on a business case need basis)	SQL Server Next Ver., Document Databases, Azure SQL, MySQL Next Ver.	Black box DBMS not incl. Azure on the Government Cloud Only
DBMS Modeling Tools	Idera ER/Studio Data Architect, PowerDesigner, Erwin, Visio	Power Designer <16.x	Power Designer 16.x	Idera ER/Studio Data Architect, Erwin, Visio	UML 2.0 compliant		Tools must be capable of creating alter scripts to update database schemas.

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Data Exchange Model	JXDD 3.0.0.1, Fixed format, XML homegrown, Electronic Court Filing (ECF)	XML homegrown (external data use)	Fixed format, GJXDM; XML homegrown (internal data use)	NIEM, ECF 4.X, JSON+REST (for resources), OpenAPI	Between autonomous systems	gRPC, Microservices, ECF 5.X	In conjunction with ACJC's Arizona Data Dictionary. XML standard at <a href="https://docs.oasis-open.org/legalxml-courtfiling/specs/ecf">https://docs.oasis-open.org/legalxml-courtfiling/specs/ecf</a>
Scanning Format	Tagged Image File Format (TIF), Portable DocumentFormat (PDF)		Tagged Image File Format (TIF)	Portable Document Format (PDF)		Searchable PDF/A	
Audio File Format	Proprietary formats, .WAV			Uncompressed .WAV format, .MP4	For interchange with other courts and archive		Industry- standard output must be playable by non-proprietary readers.
Video File Format/ Protocol	Proprietary formats, AVI			SIP, H.323 H.264, .MP4  AVI, NTSC	Transmission over AJIN only  Storage	WebRTC, 4K	
Email Protocol	SMTP, MIME			SMTP and MIME			

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Data Transmission Encryption	Triple DES, AES	Triple Data Encryption Standard (DES)		Advanced Encryption Standard (AES), DPS FIPS 140	Per ACJA 1-503, the encryption key shall be maintained by AJIN mgt for all public records	NIST Post-Quantum Cryptography Standards	For data encryption over public networks
Stored Data Encryption	BitLocker			BitLocker Back up data on mobile devices to court servers before encrypting	Per ACJA 1-503, the encryption key shall be maintained by AJIN mgt for all public records	NIST Post-Quantum Cryptography Standards	
E-mail Encryption	Secure Mail Gateway, S/MIME, Microsoft 365 Message Encryption, Virtru		S/MIME	, Microsoft 365 Message Encryption			
<b>Networks and Platforms</b>							
Network Protocol	Transmission Control Protocol/ /Internet Protocol (TCP/IP)			TCP/IP, IPsec 4 (Ipv4)		IPsec 4 (Ipv6)	
Wireless Network Access	WPA, WPA2, Web-Auth	WPA	WPA2	WPA2, WPA3, 802.1x			
Client Operating System	Windows 7, 8.1, 10	Windows 10	Windows 11 <23H2	Microsoft Windows 11 Latest Release	Current supported versions only – previous versions are contained or retired	Windows vNext	

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Client Device Antivirus & Anti-malware	McAfee/Trellix, Sophos, Symantec, Trend, Microsoft Defender, Cisco Secure Endpoint, Netskope, Sophos, CrowdStrike, SentinelOne			McAfee/Trellix, Trend, Sophos, Symantec, Lookout, Netskope, Cisco Secure Endpoint, CrowdStrike, SentinelOne, Microsoft Defender	Sophos required on AJIN  All are current supported version  Requires multiple layers	Carbon Black	
Server & Network Operating Systems	Microsoft Windows, UNIX, OS/400, AIX, Solaris, Linux	OS/400, Microsoft Windows ≤2012 R2	Microsoft Windows Server 2016/2019	Microsoft Windows Server 2022 / 2025, UNIX, Linux	For enterprise applications and access thereto	Windows Server vNext	
Patch Management	SCCM, Intune, Windows Update, Ivanti, Tanuim		WSUS	SCCM, Intune/ Windows Update for Business, Tanium, Ivanti			
Vulnerability Scanning Tool	Tenable Nessus, ip360 (nCircle)			Tenable Nessus, Axonius, Nexpose/ InsightVM		OneFuzz	
Server Antivirus & Antimalware	McAfee/Trellix, Trend, Sophos, Symantec, Cisco, Microsoft Defender, CrowdStrike			McAfee, Sophos, Symantec, Trend, Cisco Secure Endpoint, Microsoft Defender, CrowdStrike	Sophos required on AJIN		
Web Application Security	Cloudflare			Cloudflare			
Automated Awareness Training/ Campaigns	InfoSec IQ			InfoSec IQ			

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Server Virtualization	Vmware ESXi, HyperV			Vmware ESXi, HyperV		Microsoft Docker	
Mobile Operating Systems	Apple iOS, Android	Windows Mobile		Apple iOS, Android	AOC-provided devices for access to statewide apps		
<b>Software as a Service</b>							
Office Productivity	Microsoft 365			Microsoft 365, Workday			
Production SaaS Applications					Considerations in Separate COT SaaS Policy		
General AI Tools					See AI Steering Committee recommendations and approvals		
<b>Shared Services</b>							
Component Service Layer	DCOM, ASP .net, SOAP, MS-Windows Communication Foundation (WCF), WebAPI	DCOM, ASP (classic), Remoting, Windows Communication Foundation (WCF)	Services (previous version), unstructured APIs	Services (current version), REST-based	Services must use structured, published APIs	Services (next version)	
Directory Services	Active Directory, LDAP, Entra ID		ADFS	Active Directory, Entra ID, LDAP, AD-LDS	Within Branch Outside Branch		

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Electronic Signatures	/s/ with internal two-factor authentication; signature pad; biometrics			MS Office Digital Signature, Adobe Digital ID, DocuSign, PandaDoc	Self-certification within court network	PKI, signature pad, biometrics, eSeal, NitroSign, BlueInk, HelloSign	Requires court policy changes accompanying e-filing.
Login Authentication	UserID/Password, Biometrics	Unsecured content	UserID/Password	UserID/Password with 2FA Windows Hello, Hardware Key, Passwordless with Authenticator	Employees, contractors, and vendors w/ Duo or MS-Authenticator application	PIV, Login.gov, Government Issued Electronic ID, Smart Devices, Zero Trust, OpenID Connect	
Login Authentication for Administrators and High-Risk Employees	Windows Hello, Hardware Keys	SMS for 2FA		Hardware Key, Windows Hello	Add-ons to 2FA ONLY for higher-risk users & situations		
Remote Access through Internet by employees or contractors	VPN with IPSec, VPN with proprietary encryption, 3DES, AES	ipsec/AnyConnect		AnyConnectSSL, MS-AOVPN, NetMotion, Team Viewer, QuickAssist	with posture validation and enforcement on AJIN, Windows supported versions	Zero Trust	
Remote Access through Internet by vendors or trusted partners	Team Viewer, GoToMeeting, MS Teams, Zoom	ipsec/AnyConnect; Team Viewer n-2 version	Team Viewer n-1 version	Team Viewer latest version	OnBase remote administration		
<b>Message Transport Middleware</b>							
Message Transport	MQ	MQ ≤V7.1	MQ V7.5/V8.0	MQ V9.2, MQ SSL	* See endnote	RabbitMQ	
Data Transformation ETL	MQSI, Data Junction, Cloverleaf, BizTalk, Scribe	Data Junction, MQSI, DTS	Cloverleaf, WMB 10.0, BizTalk	SSIS, FME  Scribe	At the state level; not required at the local level. (Dynamics/Agave)	Azure Data Factory	

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Data Routing/Publish and Subscribe	MQSI; Cloverleaf, BizTalk	MQSI	Cloverleaf, WMB 10.0, BizTalk	MQ V9.2, API Routing	At the state level; not required at the local level.		
File Transfer, Transactional and Scheduled Production (Mission Critical)	FTP, SFTP, HTTP, MQ, SharePoint, One Drive	FTP (intercourt and using public Internet), MQ ≤7.1	SFTP (intra-court only), MQ V7.5/ 8.0	MQ V9.2, Web Services, SFTP*	Scheduled production transfers of data; NIEM and ECF standard message formats		Exceptions must meet criteria*
File Transfer, Production Non-Transactional and Ad Hoc (Not Mission Critical and Not Sensitive)	FTP, SFTP, HTTP, MQ, SharePoint, One Drive	MQ ≤7.1, FTP	MQ V7.5/8.0, FTP (publicly releasable data only)	MQ V9.2, SFTP	One-time, unscheduled bulk transfers of data only		
<b>Jury Business Applications</b>							
Jury Management	Jury+, Clearview Jury	<Jury+NG	Jury+ NG	Jury+ WebGen (see ACJA 1-501)			
<b>Disaster Recovery Applications</b>							
Virtual Machine & Cloud Recovery	Veeam Backup, VMWare SRM, Live Recovery, Cohesity			Veeam Backup, VMWare Live Recovery, Site Recovery Manager, Cohesity			

\* IBM MQ is REQUIRED for production file transfer. If for any reason you cannot use IBM MQ, your service must operate asynchronously and provide:

1. Guaranteed data delivery and recovery, even after a network interruption or server outage;
2. An administrative layer that tracks the status of both sides of the transfer;
3. Ability to translate from one file format to another or to transform data;

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4. Data validation following transfer; and
5. Internal routing beyond the default path following receipt.

**Exceptions**

Exception Process Evaluation Principles (detailed in *Enterprise Architecture Standards Exception Request Document* at [https://www.azcourts.gov/cot/EnterpriseArchitectureStandards.aspx/EAS\\_Exception.doc](https://www.azcourts.gov/cot/EnterpriseArchitectureStandards.aspx/EAS_Exception.doc)):

1. City/County investment has already been made (apart from the court) that reduces the cost to the court.
2. Overall cost (total cost of ownership) is reduced from that of implementing the statewide standard. This savings must be balanced against the potential impacts to the broader Branch initiatives. Specific areas to be considered are: financial leverage, integration, support, and training.
3. Overall risk is reduced from that of implementing the statewide standard.
4. The local IT function is/will be providing support.
5. The technology demonstrates long-term viability. This must include the consideration of the vendor's viability and future costs to evolve the technology solution.
6. Substantially greater productivity is enabled through adoption of a local standard.

In addition, the court requesting an exception agrees to bear any later costs at the local level necessary to integrate the exception component or system with a statewide standard component or core system.

Arizona Code of Judicial Administration §1-505 adopts this document. It references this document, as maintained and published on the Commission on Technology Web site, as the Arizona Judicial Branch Enterprise Architecture Standards.