



Attachment 13  
Features List: Architecture, Infra, & Security

Priority	Requirement Name	Requirement Text	Response	Comment
Preferred	N-Tiered Architecture	Application architecture shall consist of a minimum of four tiers: proxy, presentation, application, and data [base]. Each of the four tiers shall be separated with firewalls. Describe how the application architecture supports n-tiered Architecture.		
Info Only	Accessibility	Discuss how and to what extent the solution complies with United States Section 508 and Web Content Accessibility Guidelines (WCAG) 2.0.		
Preferred	Plug-ins / Active X controls	In order to reduce or eliminate changes to deployed desktop infrastructure, the Judicial Branch prefers no required client-side plug-ins or ActiveX controls. However, plug-ins may be considered when the functional requirements or the technical requirements of the solution cannot be satisfied using another mechanism. In general, specialized custom coded plug-ins or specialized custom coded ActiveX controls will not be acceptable to the Judicial Branch. Specifically list and describe any required client-side or desktop system plug-ins or ActiveX controls.		
Info Only	Operating Systems	Specify list of supported operating systems and their versions.		
Info Only	Oracle Database	Judicial Branch has enterprise license for Oracle database. Specify support for Oracle Database 11gR2 or later. List all supported versions.		
Info Only	Oracle RAC	Specify support for Oracle Real Application Cluster (RAC)		
Info Only	Virtualization	Specify the list of virtualization technologies supported.		
Preferred	LDAP-v3	Application shall support LDAP-v3 compliant directories for authentication.		
Info Only	Other authentication	Specify supported authentication methods.		
Preferred	Authentication at Presentation Layer	User sessions shall not be allowed beyond presentation tier without authentication. Authentication shall be at the web server (presentation layer)		
Mandatory	Network Traffic Encryption	All network traffic between the browser and the application shall be encrypted.		
Mandatory	High Availability	Application shall function in an active-active High Availability configuration without any single point of failure in any of the application components. Describe High Availability architecture of the application.		
Preferred	Core & Public application independence	Publicly exposed application shall not impact Core application used by court users. Publicly exposed application shall be deployed separately with no shared components with Core application. Describe the architecture of Core and publicly exposed application.		
Info Only	Supported Web Servers	List the supported Web Servers and their versions.		



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Preferred	Web Browsers	Microsoft Internet Explorer version 7 or later is used at the courts. Support for the IE browser is highly desirable. List all supported browsers and versions.		
Info Only	Configuration update method	Describe how court configuration is updated in the application.		
Mandatory	Firewall Port Numbers	The product shall list all port numbers for proper firewall configuration		
Info Only	Identity Propagation	Describe how user credentials and user context are propagated to any integration point outside application server including to the database.		
Mandatory	Application Network Traffic Encryption	All incoming and outgoing network traffic of the application shall be encrypted.		
Mandatory	Encryption of Sensitive Data	All sensitive data stored in the database shall be secured and encrypted.		
Preferred	PCI Compliance	Application shall comply with Payment Card Industry (PCI) security standards.		
Preferred	Horizontal Scalability	Application must be horizontally scalable		
Preferred	Vertical Scalability	Application must be vertically scalable		
Preferred	Web Traffic Compression	Application shall function with compression enabled at Web Server level.		
Info Only	Network Bandwidth	Specify network bandwidth requirements with & without compression enabled at the web server level.		
Preferred	Recommended Infrastructure	Vendor shall have recommended specifications available for Server/CPU/Memory/Storage/Network resources for given number of users in active-active High Availability configuration as well as non High Availability configuration		
Preferred	Performance/Stress Test Results	Provide comprehensive performance/stress test and results documentation.		
Info Only	32 / 64 bit	Describe support for 32bit and 64bit operating systems		
Preferred	Web Services Protocols	Integration with existing systems and other applications and systems is a key goal of the branch. Supporting this goal mandates solutions that expose functionality using web services, and open standards compliance, including: <ul style="list-style-type: none"> <li>• File Transfer Protocol Secure (FTPS)</li> <li>• Hypertext Transfer Protocol (HTTP)</li> <li>• HTTP Secure (HTTPS)</li> <li>• Secure Shell (SSH) File Transfer Protocol (SFTP)</li> <li>• Simple Object Access Protocol (SOAP) 1.2</li> <li>• Universal Description, Discovery and Integration (UDDI)</li> <li>• Web Services Description Language (WSDL)</li> </ul> Describe support for the listed open standards		



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Preferred	Web Services Security	Support for WS-Security, Certificate based security, Basic HTTP authentication and SAML standards are highly desired. Describe supported authentication methods for Web Services		
Info Only	Reports Architecture	Describe the reports architecture		
Info Only	Adhoc Reports Architecture	Describe ad-hoc reports architecture		
Info Only	Reporting Database	For reports, if a separate reporting database is required, describe the supported data replication mechanisms.		
Preferred	Static Content	For application efficiency all non-secure static content must be served from web server.		
Info Only	Web Service Interoperability	Describe compliance with the WS-I (Web Service Interoperability) specification		
Preferred	Web Browser only	Application should be accessible via a web browser without users having to install program components to the local desktop.		
Mandatory	Application Logs	Application shall support logging for information, and debug purposes at Web Server, and Application layer components.		
Preferred	Application Log Details	Application logs shall have userid, sessionID, timestamp, request URI and response times for requests.		
Preferred	Response Time information	Capturing and displaying end-to-end response times for interactive user requests is highly desired.		
Preferred	Cleanup	Application shall provide functionality to cleanup temporary data, files, and any other temporary stale information.		
Preferred	Security-Malicious Content	All input (via web services or user entered) shall be scanned for malicious code before processing or storing in the Database.		
Info Only	Security-Malicious Content Testing	Describe how the application is tested against security vulnerabilities (cross site scripting, SQL injection, buffer overflow, malicious input, etc)		
Info Only	Security-Application	The Open Web Application Security Project (OWASP <a href="https://www.owasp.org/images/4/4e/OWASP_ASVS_2009_Web_App_Std_Release.pdf">https://www.owasp.org/images/4/4e/OWASP_ASVS_2009_Web_App_Std_Release.pdf</a> ) is an open community dedicated to enabling organizations to develop, purchase, and maintain applications that can be trusted. OWASP Application Security Verification Standard (ASVS) is used to establish a level of confidence in the security of Web applications. Describe the applications' adherence to OWASP-ASVS standard and the results of the security verification.		
Info Only	Third Party Tools	Describe any third party tools requiring licenses to run the application		
Info Only	Batch Jobs	Describe the batch job architecture.		
Preferred	Batch Job Documentation	Documentation shall be made available for each batch job, with its detail descriptions, parameters, recommended running time, approximate expected run time, and natural design dependencies on other batch jobs.		



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Info Only	DMS Integration	Judicial Branch has selected Documentum and FileNet as Document Management System vendors. Describe out-of-box integration with Documentum and FileNet.		
Info Only	Batch Job Dependency	Describe the ability to handle dependencies between batch jobs		
Preferred	Batch Job Failure	Restarting a failed batch job shall start where the previous instance stalled.		
Info Only	Batch jobs processing large amount of data	Describe how processing of large amount of data is handled in batch jobs.		
Preferred	Authentication	Once the user authenticated at the Web Server (presentation tier) level the application shall not prompt for authentication again.		
Preferred	Session Timeouts	Session duration shall be configurable		
Preferred	Application Server Access	Users, API or services must not be able to access Application Server directly without being authenticated at the Web Server layer.		
Mandatory	Authentication Token Validity	Once authenticated at the Web Server, the authentication token passed in to Application Server must be asserted with the Security Policy Server for validity		
Preferred	RBAC	Application shall support Role Based Access Control for users and Web Services		
Info Only	Auditing Arch	Describe auditing architecture.		
Info Only	Large Case Records	Describe how cases with large number (> 1000) of participants are handled in the application		
Info Only	Infrastructure	To reduce capital and operational costs it is highly desirable to run multiple non-production environments on the same infrastructure/hardware. Describe how the application supports multiple instances in such an environment.		
Preferred	Web Services API	All API exposed for integration with other application shall be Web Services conforming to Industry Standards		
Info Only	Infrastructure Non-HA	Non production environments may use infrastructure without HA. Describe the application architecture without High Availability.		
Info Only	Infrastructure - Supported Hardware	Describe the supported hardware configurations		
Info Only	WebLogic	Judicial Branch has branchwide license for WebLogic application server. If the proposed solution is a Java EE based solution, specify support for WebLogic application server and the supported versions.		
Preferred	Equipment Specifications	Necessary systems and hardware must not be proprietary in nature and have ability to be "racked" in standard 19" four-post server room racks.		



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Preferred	Application/Equipment and Monitoring	Ability for applications and processes to be monitored and performance measured using industry standard monitoring tools such as Solarwinds		
Mandatory	Windows environment compatible	Ability to operate in a Microsoft Windows server and desktop environment.		
Preferred	Virtualization	Ability to operate in a standard virtualized environment such as VMWare Enterprise		
Desired	AD Integration	Ability to integrate with existing Active Directory for security and authentication		
Preferred	Equipment Specifications	Necessary systems and hardware must not be proprietary in nature and have ability to be "racked" in standard 19" four-post server room racks.		
Preferred	Scalability and Redundancy	Ability of system to scale to multiple servers for purposes of redundancy and load expansion		
Mandatory	Network Requirements	Ability to operate on standard, static IP based (IPv4, capable of upgrading to IPv6) network with varying circuit types and bandwidths (i.e. T-1, DS3, etc.)		
Preferred	Application/Equipment and Monitoring	Ability for applications and processes to be monitored and performance measured using industry standard monitoring tools such as Solarwinds		
Mandatory	Windows environment compatible	Ability to operate in a Microsoft Windows server and desktop environment.		
Preferred	Database Support	Ability to operate utilizing common, non-proprietary database platforms including Microsoft SQL Server and/or MySQL		
Preferred	Power Requirements	Power requirements should be 110V AC 60hz with ability to have dual redundant power supplies		
Preferred	Application Backup & Restoration	Ability for software and data to be backed and stored using industry standard software and media such as Tivoli		



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Preferred	Server specifications	Ability to system and software to operate on industry standard servers, preferably Dell. Ability to have all equipment covered by same day maintenance contract.		