



CTMS REQUIREMENTS CRITERIA

Priority Scale	
The Priority Scale identifies the critical value of each criteria to the organization	
Must Have	Requirements that the organization views as a critical element
Strongly Preferred	Requirements that the organization views as a critical element but a vendor would not be eliminated if this criteria was not met.
Nice To Have	Desirable requirements but does not rise to the level of Strongly Preferred or Must Have.

Group	Feature	Requirements Criteria	Priority
System	System Flexibility	An off the shelf system to meet requirements without little or no customization	Strongly Preferred
System	Cloud Readiness	Hosted cloud solution where vendor performs all upgrades, backup etc.	Must Have
System	Validation & Compliance	The system must be a validated system with controls for 21 part 11	Must Have
System	Validation Deliverables	The following deliverables should be provided: -Validation Plan -User Requirements Specifications (URS) -Test Plan/Test Script (PQ) -Configuration Specification	Must Have
System	Data Migration	The following deliverables should be provided: -Data Migration Plan/Specifications -Data Validation Plan and Summary Report	Must Have
System	User Management	The system must be able to have capabilities to manage and grant permissions based on users role	Must Have
System	Single Sign-on (SSO)	Ability to utilize Active Directory credentials for sign-on and setting permissions.	Must Have
System	Multi-Factor (MFA)	The system supports enhanced security mechanisms by integrating with Identity Management offerings such as RSA, ADFS etc. (SAML 2.0 support)	Must Have
System	Mobile Access	The system has capability to access from mobile devices via native app or web	Must Have
System	Ease of Use	The system is easy to navigate with a simple, clean, modern and friendly intuitive interface	Must Have
System	Environment	Sandbox and Production environment must be provided	Must Have
System	Connectivity To Other Systems	Capability to integrate with applications IAVI is using to collect clinical trial data for the sites using: -Vendor Electronic Data Capture (EDC) systems for metrics (see also details metric and process criteria) -eTMF filing of documents collected at site and documents generated by CTMS and metrics (see also details metric and process criteria) -Integration Governance and Procedures (templates, reference to SOPs, direct access of templates in CTMS etc.) -Quality Management System for integration of deviation and audit management (reporting / review / follow-up) (see also details metric and process criteria) -Any other future systems	Must Have
System	External Users	Invite external user to participate (review, collaboration, upload)	Nice To Have
System	Document Review and Approval process	Review and approval by eSignature in CTMS. Final signed off documents upload in eTMF	Must Have
Support	Training	The following deliverables should be provided: -Training Materials -Robust hands-on training program for Administrator and end users	Must Have
Support	Validation	Validation support after implementation	Must Have
Support	Business Process Development Support	IAVI driven SOPs and work instructions development supported by the vendor	Strongly Preferred
Support	Technical Support	Online help, help-desk and validation support for periodic system upgrade(s) Add hoc support on issues	Must Have
Reporting	Reporting Capabilities	The system provides robust and streamlined reporting capabilities	Must Have
Reporting	Trial analytics and dashboard	Charts can be exported for use in external documents and presentations Configurable reports with custom fields	Strongly Preferred
Metrics	Trial analytics	Possibility of analysis of data coming from EDC or other external source	Must Have
Metrics	TMF Quality Metrics	Study TMF / ISF metrics -reconciliation eTMF / ISF -missing document collection (transferred from eTMF) for example output EDLs for missing eTMF site documents linked to CTMS monitoring tool for collection of missing documents.	Strongly Preferred
Metrics	Quality Metrics Performance	Monitoring: MVR follow-up and completion; % SDV completed to date %MVRs Final and submitted on time; Avg # Action items open > 1 visit Monitoring /CRO oversight: Quality oversight visits documented and finalized within timelines (if able to create and track reports within CTMS).	Must Have
Metrics	EDC Quality Metrics Site Status Reporting	Site Study Status: % pts enrolled against target per month % screen failures % of participants who discontinued early % Missed visits and contacts % Missed visits and contacts	Must Have
Metrics	EDC Quality Metrics Deviations	Site Deviation: Number of eligibility criteria deviations (violations) Total # major or critical deviations / ppt enrolled Total # minor deviations / ppt enrolled	Must Have

Metrics	EDC Quality Metrics Other	<p>EDC Data site level metrics: % of data errors/omissions / CRF (only manual queries by DM and CRA) Number of queries not answered by site > 15 days Number of queries / ppt Average # of days from visit to CRF completion Avg AEs /ppt enrolled at site Avg SAEs /ppt enrolled at site Enrolment data Safety data metrics</p>	Must Have
Metrics	QMS Quality Metric	<p>Metrics data coming from IAVI QMS Internal deviation metrics coming from IAVI QMS Audit metrics Total # of critical findings per audit Total # of major findings per audit % of Audit CAPA items closed within timelines</p>	Must Have
Metrics	Quality Metrics on Sample Management and Lab	<p>Site Biorepository Management: (not sure if integration between biorepository system and CTMS will be possibility- probably not?) Specimen Data transfers from clinical Lab to Clinical Biorepository Operations Data Discrepancies between Clinical and Specimen data</p> <p>Site lab metrics Samples collection metrics % Compliance with EQA programmed as per study % Compliance with Proficiency testing as per study</p>	Nice To Have
Metrics	Metrics on Milestones / Timelines	<p>For each milestone e.g. Planned finish date, actual finish date, status e.g. complete, planned. Examples: eTMF compliance and completeness (Use EDL data), clinical trial set-up, study site readiness etc...</p>	Strongly Preferred
Metrics	CW (LMS) Quality Metrics	% of protocol-specific training items overdue	Must Have
Process	Monitoring or other site visit management	Site Visit Tracking, which provides workflow-based tracking of the visit report, confirmation and follow-up letters, and custom tracking needs Action items, PD, SAE, ICF and ISF tracking for site visits and study team activities with alerts SAEs and Open action items to automatically populate into next report and FU Letter	Must Have
Process	Contact Management	Staff contact details set-up Creation of contact list	Must Have
Process	Risk Management	Assessment details, risk mitigations, review cycles, meetings etc. Outcome (report) filed in eTMF	Strongly Preferred
Process	Site Management	Site status, MVR quality findings, issues by type, issues open by study-site with aging, tracking participant visits to flag upcoming visits or missed visits for site to quickly take action, creation of contact reports.	Must Have
Process	Issue Log	Combined (Site and or Study) issue and tracking log for issue resolution and trending.	Must Have
Process	Vendor Management	e.g. Vendor selection, issues tracking, metrics, meetings, documentation. Output filed in eTMF	Must Have
Process	ERB / RA submission and approval progress	ERN submission / approval / follow-up management	Strongly Preferred
Process	Protocol deviation and Issue Tracking	Site / Study protocol deviation listings review and follow-up. Output filed in eTMF	Strongly Preferred
Process	Medical Monitoring	Review of EDC output monitoring in CTMS upload final output in eTMF	Must Have
Process	Protocol Amendments	Implementation of Protocol Amendment at site level (training, approval)	Nice To Have
Process	Document Management	Integration with eTMF e.g. link documents to issue tracker, attach documents to monitoring reports, letters, etc.	Nice To Have