Use Case	Description	Adopter Priority	NCI Priority	Developer Priority	Justification for Use Case	Top Priority	LOE (developer months)
		(Based on discussions and feedback from Adopters and Elaborators)	(Based on discussions with NCI and CCTS team)	(Based on assessment by the development team)			
PA Integration	Integrate with the PA	Low	High	High	For alignment with NCI and CCTS architecture.	Yes	2
CCTS CI	Support integration of C3PR build into the CCTS CI environment and build integration tests	Low	Med	High	CI is critical for the scalability of the development, testing, and release process	Yes	1
Multi-site Hardening	Harden multi-site for generalized deployment	High	High	High	We need to harden the multi-site use cases (this last phase was a beta pilot)	Yes	6
Hosted Mode	Support multiple organizations logging into C3PR and performing site-specific business functions	High	High	High	Multi-site and Hosted Mode are closely tied and both important for adoption	Yes	multi-site + 2
Summary 3/4 Reporting	Add necessary fields to C3PR to support this, design report generations, integrate into C3PR	High	?	High	This is a critical piece that we have gotten many requests for from the community. It is closely tied to C3PR functionality (accruals).	Yes	2
Subject Enterprise Service	C3PR-developed NCI enterprise service	Med	High	High	This use case is in alignment with the NCI SOA approach. C3PR is an ideal team to build this service because it is the originator of subject data in the CCTS workflow.	Yes	2
Accrual Enterprise Service	C3PR-developed NCI enterprise service (integrate with CTRP?)	Low	?	High	The accrual service will directly support the summary 3/4 reporting needs of C3PR. C3PR is an ideal team to implement this because we already handle accrual data, we have hashed out a high-level design for this type of service, C3PR will anyway be a primary consumer of this service, and other reasons (see Potential C3PR Enterprise Services presentation).	Yes	subject service + 1

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		(Based on discussions and feedback from Adopters and Elaborators)	(Based on discussions with NCI and CCTS team)	(Based on assessment by the development team)			
Reporting Enterprise Service	C3PR-developed NCI enterprise service (Summary3/4)	Low	?	High	This service will directly support the summary 3/4 reporting needs of C3PR. C3PR is an ideal team to implement this because we already handle accrual data, we have hashed out a high-level design for this type of service, C3PR will anyway be a primary consumer of this service, and other reasons (see Potential C3PR Enterprise Services presentation).	Yes	subject service + 1
Registration Enterprise Service	C3PR-developed NCI enterprise service	Med	High	High	This use case is in alignment with the NCI SOA approach. C3PR is an ideal team to build this service because it is the originator of registration data in the CCTS workflow.	Yes	subject service + 1
Custom fields	Add custom fields to C3PR on a per study and per deployment basis, as well as mark which fields are required	High	?	High	This is a requirement that we have heard from a number of community members, and we have already begun work on this (deprioritized for COPPA integration)		1.5
CCTS Release	Harden C3PR for release with CCTS	Low	?	High	We should release C3PR with CCTS		1
CCTS Common Security	Build out the common security infrastructure, including centralized roles/privileges, hooking in with the production grid, local authorization, etc.	Med	?	High	Having a common security approach will be critical to the success of CCTS, and we have already started work on this (deprioritized for COPPA integration)		3
CCTS Portal	Integrate C3PR into the CCTS portal	High	?	High	The CCTS Portal is a highly desirable feature from the user community		0.5
Multi-site Amendments	Support amendment exchange between instances of C3PR	Med	Low?	High	For multi-site to truly work, we will need to support amendments. Note, this may be supported by COPPA/CTRP, but currently they have not gathered our requirements		included in multi-site

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Multiple Versions of Consent	Support the addition of multiple versions of a consent (through amendments), apply business rules around the consent version	High	?	High	This is an important extension to the registration use case		1
EHR/EMR Integration	Support the integration of an electronic health record, such as importing patient data	Med	?	High	We have gotten many requests from the community for integrating with an EHR to pull subject demographics		subject service + 2
Call-out Randomization	Invoke a well-known API for performing randomization (look at TRANSCEND APIs)	Low	Med?	High	Randomization is an important function of C3PR, and call-out programmatic randomization has long been on our plate. This would facilitate adoption of C3PR into large organizations that use programmatic randomization.		1.5
Basic Science Eligibility Criteria	Support eligibility based on basic science data, such as biomarkers or gene expression	Med	?	Med	This is a feature that adopters have found necessary for some trials.		2
Flexible Reporting	Report builder - akin to the caTissue advanced search report builder	Med	Low?	Med	Reporting is increasingly becoming more important per feedback from Bill Dyer.		3
Computable Eligibility Criteria	Expand the C3PR eligibility criteria model to support computable eligibility, provide mechanisms to compute on it	Med	?	Med	This is important for determining whether a patient is eligible for a trial and is something that has been raised to us a number of times.		1.5
De-identification	In multi-site setting (e.g. subject name), etc.	Med	?	Med	To enable secure exchange of data in multi-site trials.		3
Check for Client Changes	Popup a dialog when a user tries to navigate away from a page they have made changes on	Low	?	Med	Recommendation from Adopters.		0.5
Multiple Registrations of One Subject to the Same Trial	Allow for the same subject to be registered to the same trial twice at different times (yes, this is a real use case)	Low	?	Med	Recommendation from Adopters.		1.5
Organization Networks	Support networks of organizations (leverage caAERS implementation)	Med	?	Med	This is important for managing large trials - maybe this is something COPPA will give us.		1.5
Support More Flexible Internal Book Modifications	Amendments can modify/add stratification criteria, open slots, etc. - support this in more flexible ways	Low	?	Med	This is important functionality related to registration and should be supported.		1

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		(Based on discussions and feedback from Adopters and Elaborators)	(Based on discussions with NCI and CCTS team)	(Based on assessment by the development team)			
Integration with NCIA	Data and hotlinks (using current caXchange and hotlink infrastructure)	Low?	High	Med	NCI requested feature.		0.5
Integration with caTissue	Data and hotlinks (using current caXchange and hotlink infrastructure)	Low?	High	Med	NCI requested feature.		0.5
CCTS Use Cases	Implement additional use cases generated by the CCTS SMEs/analysts	Med	?	Med	For alignment with other CCTS projects.		unknown
Browser Support	IE 8, FF 3, IE 6	Low	?	Med	These are the latest version of the most commonly used browsers that have been released recently, as well as the older browsers that cancer centers have deployed.		1
Scalability Review	Investigate the scalability of C3PR in a systematic way (realistic numbers of subjects, studies, registrations, etc.)	Low	?	Med	Scalability will be important for production environment. While we have built the application for scalability, we have not formally review it in this sense		1
Eligibility Guidelines	As an alternative (or in addition) to strict criteria, include general guidelines	Med	?	Med	Recommendation from Adopters.		0.5
Interim Release	Harden C3PR for release that has COPPA integration	Low	Low	Low	For smooth integration with COPPA services when they are released.		1
COPPA Updates, Creates	Include requests to COPPA for updates and creates	Low	?	Low	For alignment with NCI and CCTS architecture.		3
Training Videos	Create a library of training videos	Med	?	Low	General requirements for all applications.		1
Configurable Subject Identifiers	Make required identifier configurable (e.g. MRN)	Low	?	Low	This would support deployments where MRNs are not the primary identifier		0.5
Flexible Business Rules	Use rules engine to define rules for registration (e.g. can't register to Study A if registered to Study B)	Med	?	Low	To make registration process more flexible and support some specific community requirements.		3
Auto-logout	After a certain amount of inactivity, log the user out (including single sign-out)	Low?	?	Low	Standard application requirement for security.		0.5
Link/upload Documents	Consent and protocol documents linked to or loaded into C3PR	Low?	?	Low	Recommendation from Adopters.		1
OPEN Integration	Pre-fill data, other possible integrations	Med	?	Low	This would enable an easier integration with OPEN.		3
Change Study from Single Site to Multi-site	Implement business rules around when a study goes from single-site to multi-site	Low	?	Low	Support the multi-site use case.		2

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Merge Subjects	Provide functionality to identify duplicate subjects and merge them into a single subject record (including registrations)	Low	?	Low	This is a use case that we have heard from adopters		1.5
Custom Diseases/Disease Sites	Allow for the loading of different disease and disease site nomenclatures	Low	?	Low	Use case from adopters		2
BRIDG Harmonization	Additional BRIDG harmonization (including ISO datatypes)	Low	High	Low	NCI requirement.		3
Gold Compatibility Review	Additional compatibility reviews	Low	High	Low	NCI requirement.		1