



CD2H eConsent Needs Assessment Tool

Prepared by Sage Bionetworks

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eConsent Needs Assessment Tool

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Please contact sage-cd2h-econsent@sagebase.org with any questions.

Start of Block: Intro

Pilot: eConsent Needs Assessment

The COVID-19 pandemic has changed how academic medical centers engage with study participants, sparking a need for tools to collect study participant consent in a virtual environment. CD2H, NCATS, and Sage Bionetworks have partnered to develop an eConsent framework to help organizations evaluate, select, or build an eConsent tool or platform. Please complete the assessment below to help us pilot this framework to understand your considerations and requirements for selecting an eConsent platform. We greatly appreciate your participation.

Please note: This assessment includes questions that apply to eConsent needs across different domain areas (e.g. operations and implementation features, IT/security considerations, regulatory requirements, etc.) for a particular study facilitated by your organization. *As eConsent considerations are anticipated to vary across study protocols within your organization, we encourage you to complete this assessment in close consultation with and on behalf of relevant study team members and stakeholders that can evaluate the specific eConsent needs and requirements with a particular study (or set of related studies) in mind.*

End of Block: Intro

Start of Block: General info about you/your org

Please fill out the requested information below:

Your name (First Last): _____

Your email: _____

Name of your organization: _____

Job title / organizational role: _____

How familiar are you with **general study participant consent processes** (i.e. previous involvement in facilitating and/or completing consent for a research study)?

- Not familiar at all
- Slightly familiar
- Moderately familiar
- Very familiar
- Extremely familiar

If How familiar are you with general study participant consent processes... = Slightly familiar, Moderately familiar, Very familiar, or Extremely familiar

How familiar are you with **eConsent processes** (i.e. previous involvement in facilitating and/or completing eConsent for a research study)?

- Not familiar at all
- Slightly familiar
- Moderately familiar
- Very familiar
- Extremely familiar

Over the next 5 years, approximately how many **studies** do you anticipate to require eConsent facilitation?

- none
- 1-2 studies
- 3-5 studies
- 5-10 studies
- more than 10 studies

Over the next 5 years, approximately how many **consenting individuals** do you anticipate to facilitate completion of eConsent?

- none
- 1-10 consenting individuals
- 11-500 consenting individuals
- 501-1000 consenting individuals
- more than 1000 consenting individuals

End of Block: General info about you/your org

Start of Block: General feature questions

Do you need an eConsent platform that is compliant with FDA-regulated studies?
FDA-regulated studies must be compliant with electronic record and electronic signature standards, as outlined in 21 Code of Federal Regulations (CFR) Part 11. For more information on CFR Title 21, refer [here](#).

- No
- Yes
- Unsure

If Do you need an eConsent platform that is compliant with FDA-regulated studies? = Yes

How important is it for an eConsent platform to collect and export data in accordance with CDISC standards?

- Not important
- Preferred
- Required
- Unsure

How would you rank the importance of the following features when selecting an eConsent platform? **Please rank the answer choices; 1=most important; 7= least important**

_____ Ease of use by consenting individuals

_____ Ease of use by study team members

_____ Cost of implementation and use

_____ Amount of technical support / other assistance provided by the eConsent platform for implementation and use

_____ Scope of customization and breadth of available features

_____ Established compliance with 21 Code of Federal Regulations (CFR) Part 11. For more information on CFR Title 21, refer [here](#).

_____ Compatibility and integration with other tools and software

What are your budgetary considerations when selecting an eConsent platform?

- A freely available eConsent platform is required
- A freely available eConsent platform is preferred, but not required
- Unsure

What other factor(s) regarding budgeting and cost do you consider when selecting an eConsent platform?

Do you have **internal** support (e.g. research staff or IT support) allocated to develop, customize, implement, and maintain the eConsent platform?

- No
- Yes
- Unsure

Do you need an eConsent platform that can be utilized across multiple studies?

- No
- Yes
- Unsure

Do you need an eConsent platform that is capable of collecting age-appropriate child assent?

- No
- Yes
- Unsure

To what extent do you need an eConsent platform that allows for customization of eConsent templates?

- No Customization Needed:** eConsent templates do not need to provide room for formatting, added text, or custom code
- Moderate Customization Needed:** eConsent templates should allow users to format certain sections (e.g. add a logo to the top of the document) or add text to specific areas
- Extensive Customization Needed:** eConsent templates should provide many formatting options and widespread ability to add text & custom code
- Unsure

How important are the following eConsent **implementation features** when selecting an eConsent platform?

	Not important	Preferred	Required	Unsure
Automated notification capability (e.g. email when eConsent has been completed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to generate a certificate of completion to be shared with study participants and/or coordinators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to generate an exportable PDF of completed eConsent forms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to accommodate and manage a library of eConsent templates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to accommodate and manage linkage of consent to studies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic version history and change logs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reporting capability (e.g. eConsent completion status, number of eConsents distributed, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If How important are the following eConsent implementation features when selecting an eConsent platf... = Reporting capability (e.g. eConsent completion status, number of eConsents distributed, etc) [Preferred], or Reporting capability (e.g. eConsent completion status, number of eConsents distributed, etc) [Required]

How important are the following eConsent **reporting metrics** in the selection of an eConsent platform?

	Not important	Preferred	Required	Unsure
A consenting individual's eConsent completion status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A consenting individual's eConsent signature date	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of completed eConsents for a study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of initiated eConsents for a study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
eConsent metrics within a specified date range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If How important are the following eConsent implementation features when selecting an eConsent platf... = Reporting capability (e.g. eConsent completion status, number of eConsents distributed, etc) [Preferred], or Reporting capability (e.g. eConsent completion status, number of eConsents distributed, etc) [Required]

How would you prefer to generate / view reports related to eConsent metrics? **Select all that apply.**

- Automated and/or scheduled report / query system
- On-demand report / query system
- Performance dashboard
- Other (please specify) _____
- Unsure

If How important are the following eConsent implementation features when selecting an eConsent platf... = Automated notification capability (e.g. email when eConsent has been completed) [Preferred], or Automated notification capability (e.g. email when eConsent has been completed) [Required]

How important are the following eConsent **notification features** when selecting an eConsent platform?

	Not important	Preferred	Required	Unsure
Notification to study team member(s) when eConsent documents are signed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification to consenting individuals when they sign and complete eConsent documents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification to study participants when they need to re-consent on a new version of the consented document	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

How important are the following eConsent **accessibility features** when selecting an eConsent platform to accommodate consenting individuals with visual, auditory, physical and/or cognitive impairment?

	Not important	Preferred	Required	Unsure
Color vision deficiency features (e.g. contrast and color blindness settings)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Text adjustment (e.g. settings for font style and size)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Resolution adjustment and requirements (e.g. minimum resolution requirements for video or images)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Responsive content display (e.g. accommodates portrait or landscape display)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Keyboard-only navigation (e.g. can be used without a computer mouse)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Video integration (e.g. instructional video pop-ups)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Captions for video and audio content (e.g. options to display captions)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls for video and audio content (e.g. volume, play/pause, stop controls)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative text for non-text content (e.g. descriptive content for graphics)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Icons (e.g. supports integration of suggested or custom icons or graphics to assist content navigation)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compatibility with assistive technologies (e.g. screen readers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adjustable time-out (e.g. sessions do not expire or time-out after a short period, and can be extended to longer durations)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submission preview (e.g. ability to update, correct, and confirm responses prior to submission)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Which language(s) would you like an eConsent platform to support? **Please drag each language option into its respective category to the right.**

Required	Preferred	Unsure / Likely Not Needed
<input type="checkbox"/> English	<input type="checkbox"/> English	<input type="checkbox"/> English
<input type="checkbox"/> Spanish	<input type="checkbox"/> Spanish	<input type="checkbox"/> Spanish
<input type="checkbox"/> Chinese (including Mandarin and Cantonese)	<input type="checkbox"/> Chinese (including Mandarin and Cantonese)	<input type="checkbox"/> Chinese (including Mandarin and Cantonese)
<input type="checkbox"/> Vietnamese	<input type="checkbox"/> Vietnamese	<input type="checkbox"/> Vietnamese
<input type="checkbox"/> Korean	<input type="checkbox"/> Korean	<input type="checkbox"/> Korean
<input type="checkbox"/> Russian	<input type="checkbox"/> Russian	<input type="checkbox"/> Russian
<input type="checkbox"/> Arabic	<input type="checkbox"/> Arabic	<input type="checkbox"/> Arabic
<input type="checkbox"/> Tagalog	<input type="checkbox"/> Tagalog	<input type="checkbox"/> Tagalog
<input type="checkbox"/> Polish	<input type="checkbox"/> Polish	<input type="checkbox"/> Polish
<input type="checkbox"/> French	<input type="checkbox"/> French	<input type="checkbox"/> French
<input type="checkbox"/> Haitian Creole	<input type="checkbox"/> Haitian Creole	<input type="checkbox"/> Haitian Creole
<input type="checkbox"/> Portuguese	<input type="checkbox"/> Portuguese	<input type="checkbox"/> Portuguese
<input type="checkbox"/> Japanese	<input type="checkbox"/> Japanese	<input type="checkbox"/> Japanese

Are there any additional languages that you would like an eConsent platform to support?

How important are the following eConsent **interpretation/comprehension features** when selecting an eConsent platform to accommodate consenting individuals with different language reading and comprehension abilities?

	Not important	Preferred	Required	Unsure
Evaluation and/or adjustment of text / content to different education levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluation and/or adjustment of text / content to different comprehension levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Suggested simplified text / content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inclusion and/or integration with language interpretation services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

How important are the following eConsent **feedback features** when selecting an eConsent platform?

	Not important	Preferred	Required	Unsure
Ability for consenting individuals to interact with the platform/tool to support comprehension checks throughout eConsent (e.g. add notes, comments, questions, or feedback)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability for consenting individuals to provide feedback on usability and/or user burden following completion and signing of the eConsent (e.g. post-completion user surveys)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability for study team members to provide feedback on usability and/or user burden throughout use (e.g. user satisfaction surveys)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

How important is it for an eConsent platform to include data de-identification options/features (e.g. removal of identifiers, hashing, date shifting) for data export?

- Not important
- Preferred
- Required
- Unsure

Are you interested in an eConsent platform that can be integrated with any of the following systems? **Select all that apply.**

- Electronic Health Record (EHR) Systems [e.g. Epic, Millenium (Cerner)]
- Electronic Data Capture (EDC) Systems (e.g. MediData Rave, REDCap)
- Electronic Institutional Review Board (e-IRB) Application Systems (e.g. IRBNet)
- Unsure
- Other (please specify) _____

Are you or others at your organization interested in an eConsent platform that can be used for functions outside of consent for a research study (e.g. data capture)?

- No
- Yes
- Unsure

If Are you or others at your organization interested in an eConsent platform that can be used for fu... = Yes

Please list these additional functions:

End of Block: General feature questions

Start of Block: Technical questions

Which of the following devices can be used by consenting individuals to complete their eConsents (this may be informed by study-specific protocol and/or institutional policy)? **Select all that apply.**

- Desktops
- Laptops
- Mobile devices: Tablets
- Mobile devices: Cell Phones
- Other (please specify) _____
- Unsure

Will all consenting individuals have access to the internet and/or a stable data connection to complete their eConsent?

- No
- Yes
- Unsure

If Will all consenting individuals have access to the internet and/or a stable data connection to co... = No or Unsure

If internet access and/or a stable data connection are not available, will consenting individuals have access to a device whereby they can complete their eConsent offline?

- No
- Yes
- Unsure

Please indicate your preferences for the following **design features** when selecting an eConsent platform:

	Not needed	Preferred	Required	No preference / unsure
Web-based , accessed through a browser	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operated via a native client for <u>study team members</u> to set up & distribute the eConsent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operated via a native client for <u>consenting individuals</u> to complete the eConsent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operated via a mobile client for <u>study team members</u> to set up & distribute the eConsent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operated via a mobile client for <u>consenting individuals</u> to complete the eConsent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*If Please indicate your preferences for the following design features when selecting an eConsent platform = **Web-based**, accessed through a browser [Preferred], or **Web-based**, accessed through a browser [Required]*

If web-based, which of the following browsers are preferred for implementation of the eConsent platform? **Select all that apply.**

- Internet Explorer
- Edge
- Firefox
- Chrome
- Safari
- No preference
- Unsure

Where can the eConsent take place? **Select all that apply.**

- On-site setting where both the consenting individual and study team member are physically present on premises, with eConsent device(s) connected to a specific on-premises network (e.g. the consenting individual and study team member meet and complete the eConsent at a study clinic)
- In-person setting where both the consenting individual and study team member are physically present at the same location, independent of the location (e.g. the consenting individual and study team member meet and complete the eConsent at location that is not the study clinic, such as the consenting individual's home)
- Remote setting where the consenting individual and a study team member are NOT physically present at the same location (e.g. the consenting individual and study team member connect via videoconference to complete the eConsent)
- Unsure

How important is it for consenting individuals to be able to use an eConsent platform independently (i.e. without a study team member physically present in the same room or connected virtually)?

- Not important
- Preferred
- Required
- Unsure

How important are the following **security features** when selecting an eConsent platform?

	Not important	Preferred	Required	Unsure
Audit logs and / or activity logs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Verification of electronic signature dates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Verification of electronic signature times	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File encryption and storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

When selecting an eConsent platform, which of the following **security features** are required for Study Team Members and / or Consenting Individuals?

If you are unsure, please leave the row blank, or write "unsure" in the comments section.

	Study Team Members	Consenting Individuals	Comments (optional)
Single sign on	<input type="checkbox"/>	<input type="checkbox"/>	
Two-factor authentication	<input type="checkbox"/>	<input type="checkbox"/>	
Two-factor electronic signatures	<input type="checkbox"/>	<input type="checkbox"/>	
Identity verification via background checks	<input type="checkbox"/>	<input type="checkbox"/>	
Certificate-based identification	<input type="checkbox"/>	<input type="checkbox"/>	
Biometric identification	<input type="checkbox"/>	<input type="checkbox"/>	
Token-based identification	<input type="checkbox"/>	<input type="checkbox"/>	

Password protected accounts	<input type="checkbox"/>	<input type="checkbox"/>	
Personal security questions for account protection	<input type="checkbox"/>	<input type="checkbox"/>	
System logs user activity, associated with single user	<input type="checkbox"/>	<input type="checkbox"/>	
System captures IP address	<input type="checkbox"/>	<input type="checkbox"/>	
System captures session ID	<input type="checkbox"/>	<input type="checkbox"/>	
Bot detection	<input type="checkbox"/>	<input type="checkbox"/>	

End of Block: Technical questions

Start of Block: Do you want to evaluate eConsent tool?

Please note: In addition to this eConsent Needs Assessment, we have also developed a complementary eConsent Evaluation Tool to help researchers evaluate the features and functionality of existing eConsent platforms. Have you already completed the eConsent Evaluation Tool?

- No
- Yes

If Please note: In addition to this eConsent Needs Assessment, we have also developed a complementar... = No

Would you like to complete the eConsent Evaluation Tool?

Please note that you will automatically be redirected to the eConsent Evaluation Tool if you select "yes." However, you will also receive a link to the eConsent Evaluation Tool via email. Please close out of the survey and instead access the eConsent Evaluation Tool link from your email if you would prefer to complete the evaluation at a later time.

- No
- Yes

End of Block: Do you want to evaluate eConsent tool