

LogTag[®]Online

**Compliance with
US FDA Title 21 Part 11
Electronic Records;
Electronic Signatures**



This document assumes the use of:

- *LogTag Online*
- *LogTag Logger*

Electronic Records on LogTag Online are defined as:

- Troubleshooting record
- Logger Report
- Logger Data File
- Event Log

LogTag Online version 1.0.7 complies with all requirements for electronic records, but does not comply with all requirements for digital signatures.

Subpart B – Electronic Records			
§11.10	Controls for closed systems and	How compliance achieved	Comply
	Persons who use closed systems to create, modify, maintain, or transmit electronic records shall employ procedures and controls designed to ensure the authenticity, integrity, and, when appropriate, the confidentiality of electronic records, and to ensure that the signer cannot readily repudiate the signed record as not genuine. Such procedures and controls shall include the following:		
(a)	Validation of systems to ensure accuracy, reliability, consistent intended performance, and the ability to discern invalid or altered records.	Each file contains a number of identification tags and checks that are used to indicate if the information within the file is part of the system and thereby genuine data and whether or not the data has been externally altered. Files that have been tampered with or are not genuine data will have an invalid identification tag.	Yes
(b)	The ability to generate accurate and complete copies of records in both human readable and electronic form suitable for inspection, review, and copying by the agency. Persons should contact the agency if there are any questions regarding the ability of the agency to perform such review and copying of the electronic records.	All files can be displayed electronically and/or printed. Users external to the system, with the appropriate software and access to the relevant files, can also electronically display and/or print the information within a file.	Yes
(c)	Protection of records to enable their accurate and ready retrieval throughout the records retention period.	All data is maintained in 3 independent copies, and backed up to a separate geographical location every hour. Data is maintained on LogTag servers whilst there is a current subscription account.	Yes
(d)	Limiting system access to authorized individuals.	To access the system a user must provide a valid username and password. The system will only allow a user to perform the tasks that they have been granted permission to perform. User names are based on an actual user's email address to ensure its uniqueness, and the user cannot change his email address to ensure improved traceability.	Yes
(e)	Use of secure, computer-generated, time-stamped audit trails to independently record the date and time of operator entries and	Each operator action involving modification and/or access to user accounts, electronic data and electronic signatures is	Yes

	actions that create, modify, or delete electronic records. Record changes shall not obscure previously recorded information. Such audit trail documentation shall be retained for a period at least as long as that required for the subject electronic records and shall be available for agency review and copying.	included in an audit log file. Each action has the date/time of the event, information about the user that caused the action. Actions within an audit log file can be requested from LogTag.	
(f)	Use of operational system checks to enforce permitted sequencing of steps and events, as appropriate.	Each user must perform a predefined sequence of steps, as defined by the software, to ensure each task is performed correctly.	Yes
(g)	Use of authority checks to ensure that only authorized individuals can use the system, electronically sign a record, access the operation or computer system input or output device, alter a record, or perform the operation at hand.	Each user must provide a valid username and password to access the system. The system checks that the username and password are valid and that the user has the appropriate permission to perform the relevant task each time the user performs a task.	Yes
(h)	Use of device (e.g., terminal) checks to determine, as appropriate, the validity of the source of data input or operational instruction.	There are a number of identification tags and checks to ensure the data obtained from loggers is genuine and to determine if the data has been tampered with.	Yes
(i)	Determination that persons who develop, maintain, or use electronic record/electronic signature systems have the education, training, and experience to perform their assigned tasks.	It is the responsibility of the organization to develop appropriate resources and provide adequate education and training to use the system.	N/A
(j)	The establishment of, and adherence to, written policies that hold individuals accountable and responsible for actions initiated under their electronic signatures, in order to deter record and signature falsification.	It is possible to restrict a users ability within the system to change settings, thereby reducing the possibility of the false electronic information been generated. It is otherwise the responsibility of the organization and their relevant SOP's to prevent and/or record and signature falsification.	Yes
(k)	Use of appropriate controls over systems documentation including:		
(1)	Adequate controls over the distribution of, access to, and use of documentation for system operation and maintenance.	Documentation outlining implementation of the system is available. Compliance is subject to organization SOP's and their implementation of this system.	N/A
(2)	Revision and change control procedures to maintain an audit trail that documents time-sequenced development and modification of systems documentation.	Each revision of the software that is a part of the system is unique. Changes between each revision are documented with date/time information. Each revision is tested to ensure the system functions according to specification and compliance.	Yes

§11.30	Controls for open systems	How compliance achieved	Comply
	Persons who use open systems to create, modify, maintain, or transmit electronic records shall employ procedures and controls designed to ensure the authenticity, integrity, and, as appropriate, the confidentiality of electronic records from the point of their creation to the point of their receipt. Such procedures and controls shall include those identified in Sec. 11.10, as appropriate, and additional measures such as document encryption and use of appropriate digital signature standards to ensure, as necessary under the circumstances, record authenticity, integrity, and confidentiality.	This system does not operate in an open system environment.	Yes
§11.50	Signature manifestations	How compliance achieved	Comply
(a)	Signed electronic records shall contain information associated with the signing that clearly indicates all of the following:		
(1)	The printed name of the signer;	Each electronic signature recorded includes all user account details, including the user's username (used to access the system), their full name, and initials.	Yes
(2)	The date and time when the signature was executed; and	The time in UTC time zone according to the time server, time.windows.com is stored for when various electronic signatures are created.	No
(3)	The meaning (such as review, approval, responsibility, or authorship) associated with the signature.		No
(b)	The items identified in paragraphs (a)(1), (a)(2), and (a)(3) of this section shall be subject to the same controls as for electronic records and shall be included as part of any human readable form of the electronic record (such as electronic display or printout).	A user needs to submit a request to LogTag support to print the details of each electronic signature. Signatures are not included on electronic recorders created.	No
§11.70	Signature/record linking	How compliance achieved	Comply
	Electronic signatures and handwritten signatures executed to electronic records shall be linked to their respective electronic records to ensure that the signatures cannot be excised, copied, or otherwise transferred to falsify an electronic record by ordinary means.	Electronic records do not contain the electronic signature attached, instead electronic signatures are stored within the database.	No

Subpart C – Electronic Signatures			
§11.100	General requirements	How compliance achieved	Comply
(a)	Each electronic signature shall be unique to one individual and shall not be reused by, or reassigned to, anyone else.	Each user account in LogTag Online software is identified by a unique email, which the users use to access the system. Once a user account is created, the user cannot select another email address.	Yes
(b)	Before an organization establishes, assigns, certifies, or otherwise sanctions an individual's electronic signature, or any element of such electronic signature, the organization shall verify the identity of the individual.	Compliance is the responsibility of the organization implementing this system. The LogTag Online system requires the user confirm their email address is valid by sending a confirmation email.	N/A
(c)	Persons using electronic signatures shall, prior to or at the time of such use, certify to the agency that the electronic signatures in their system, used on or after August 20, 1997, are intended to be the legally binding equivalent of traditional handwritten signatures.	Compliance is the responsibility of the organization implementing this system.	N/A
(1)	The certification shall be submitted in paper form and signed with a traditional handwritten signature, to the Office of Regional Operations (HFC-100), 5600 Fishers Lane, Rockville, MD 20857.	Compliance is the responsibility of the organization implementing this system.	N/A
(2)	Persons using electronic signatures shall, upon agency request, provide additional certification or testimony that a specific electronic signature is the legally binding equivalent of the signer's handwritten signature.	Compliance is the responsibility of the organization implementing this system.	N/A

§11.200	Electronic signature components and controls	How compliance achieved	Comply
(a)	Electronic signatures that are not based upon biometrics shall:		
(1)	Employ at least two distinct identification components such as an identification code and password.	Each user must provide a valid email address and password to access the system.	Yes
(i)	When an individual executes a series of signings during a single, continuous period of controlled system access, the first signing shall be executed using all electronic signature components; subsequent signings shall be executed using at least one electronic signature component that is only executable by, and designed to be used only by, the individual.	Currently LogTag Online does not allow users to sign electronic records.	No
(ii)	When an individual executes one or more signings not performed during a single, continuous period of controlled system access, each signing shall be executed using all of the electronic signature components.	Currently LogTag Online does not allow users to sign electronic records.	No
(2)	Be used only by their genuine owners; and	It is the responsibility of users to keep their access information confidential.	Yes
(3)	Be administered and executed to ensure that attempted use of an individual's electronic signature by anyone other than its genuine owner requires collaboration of two or more individuals.	Administrators of LogTag Online software cannot discover the current password of a user. It is the responsibility of users to keep their access information confidential.	Yes
(b)	Electronic signatures based upon biometrics shall be designed to ensure that they cannot be used by anyone other than their genuine owners.	Authorization based upon biometrics is not supported, therefore compliance is achieved.	Yes

§11.300	Controls for identification codes/passwords	How compliance achieved	Comply
	Persons who use electronic signatures based upon use of identification codes in combination with passwords shall employ controls to ensure their security and integrity. Such controls shall include:		
(a)	Maintaining the uniqueness of each combined identification code and password, such that no two individuals have the same combination of identification code and password.	Each user account within LogTag Online software is identified by a unique email address, which the user uses to access the system. Each user account has an associated password for the purpose of identifying the user that accesses the system.	Yes
(b)	Ensuring that identification code and password issuances are periodically checked, recalled, or revised (e.g., to cover such events as password aging).	Users can change their access password at any time. Administrators of the LogTag Online system can force individual users to change their passwords. It is up to the SOP of the individual organization to ensure that the passwords are periodically revised.	Yes
(c)	Following loss management procedures to electronically deauthorize lost, stolen, missing, or otherwise potentially compromised tokens, cards, and other devices that bear or generate identification code or password information, and to issue temporary or permanent replacements using suitable, rigorous controls.	A LogTag Online Administrator can at anytime disable a user account preventing it being used to access the system.	Yes
(d)	Use of transaction safeguards to prevent unauthorized use of passwords and/or identification codes, and to detect and report in an immediate and urgent manner any attempts at their unauthorized use to the system security unit, and, as appropriate, to organizational management.	LogTag Online will disable a user account for a period of time if a predefined number of sequential failed attempts have been made. Compliance is subject to organization SOP's and their implementation of this system.	Yes
(e)	Initial and periodic testing of devices, such as tokens or cards, that bear or generate identification code or password information to ensure that they function properly and have not been altered in an unauthorized manner.	Compliance is subject to organization SOP's and their implementation of this system.	N/A